



August 30, 2013

Mr. Weiquan Dong, PE
Bureau of Corrective Actions, Special Projects Branch
Nevada Division of Environmental Protection
2030 E. Flamingo Rd., Suite 230
Las Vegas, Nevada 89119

**Re: Annual Remedial Performance Report for Chromium and Perchlorate
July 2012-June 2013; Nevada Environmental Response Trust Site,
Henderson, Nevada**

Dear Mr. Dong:

Please find enclosed the Annual Remedial Performance Report for Chromium and Perchlorate July 2012-June 201H for the Nevada Environmental Response Trust (NERT) Site in Henderson, Nevada. This report was prepared by ENVIRON International Corporation (ENVIRON) on behalf of the Nevada Environmental Response Trust (the Trust). The entire document is available in electronic format on CD located in the back folder of this binder.

Please contact John Pekala at (602) 734-7710 or Allan DeLorme at (510) 420-2565 if you have any comments or questions concerning this report.

Sincerely,

John M. Pekala, CEM #2347
Senior Manager

Allan J. DeLorme, PE
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**Annual Remedial Performance
Report for Chromium and
Perchlorate**

Nevada Environmental Response Trust Site
Henderson, Nevada
July 2012 – June 2013

Prepared for:
Nevada Environmental Response Trust

Prepared by:
ENVIRON International Corporation
Emeryville, California

Date:
August 30, 2013

Project Number:
21-32100H

Annual Remedial Performance Report for Chromium and Perchlorate

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Clark County, Nevada

Nevada Environmental Response Trust (Trust) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of the Trust. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Signature: Jay A. Steinberg, not individually but solely as President, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

John M. Pekala, PG
Senior Manager

Certified Environmental Manager
ENVIRON International Corporation
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CEM Expiration Date: September 20, 2014

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1 Introduction

In accordance with the Interim Consent Agreement between the Nevada Environmental Response Trust (the Trust) and the Nevada Division of Environmental Protection (NDEP), ENVIRON International Corporation (ENVIRON) submits this remedial performance report to NDEP on behalf of the Trust for the Nevada Environmental Response Trust Site (the Site). The Site comprises approximately 410 acres located within the Black Mountain Industrial (BMI) Complex in unincorporated Clark County and is surrounded by the City of Henderson, Nevada.

Tronox LLC (Tronox) formerly owned and operated the Site. In conjunction with the settlement of Tronox's bankruptcy proceeding, the Trust took title to the Site and the groundwater extraction and treatment system (GWETS).¹ The effective date of the property transfer to the Trust and the Interim Consent Agreement between the Trust and NDEP was February 14, 2011. The Tronox facility remains on a portion of the Site leased from the Trust in order to continue manufacturing operations.

Veolia Water North America (Veolia)² has operated and maintained the GWETS since 2003. After the Trust took title of the Site in February 2011, Veolia continued to operate and maintain the GWETS on behalf of the Trust through the end of the current reporting period. As of July 24, 2013 Envirogen Technologies, Inc. (Envirogen) has taken over GWETS operation and maintenance duties. As part of this transition, a new analytical laboratory, TestAmerica Laboratories, Inc., (TestAmerica), has acted as the Site's primary analytical testing laboratory since April 1, 2013. Prior to April 1, 2013, Eaton Analytical³ served as the Site's primary analytical testing laboratory.

This report, covering the period July 2012 through June 2013, summarizes performance data for both the chromium and perchlorate remediation programs based on sampling performed during this period. Specifically, this report describes:

- Regional groundwater conditions based on July 2012 through June 2013 groundwater levels;
- The hexavalent chromium remediation system (consisting of the on-site Interceptor Well Field [IWF], the off-site Athens Road Well Field [AWF],⁴ and the related treatment systems) and its performance in carrying out the extraction and treatment of chromium-impacted groundwater;

¹ Herein "GWETS" will be used to refer to the entirety of all systems and components of the groundwater extraction and treatment systems owned and operated by the Trust, both on-site and off-site, including extraction well fields, treatment facilities, and groundwater conveyance systems.

² Formerly US Filter Operating Services.

³ Formerly MWH Laboratories.

⁴ Although Athens Road has been renamed Galleria Drive, the Athens Road designation has been retained for the well field to maintain consistency with past reports.

- The perchlorate remediation system (consisting of the on-site IWF, the off-site AWF, the off-site Seep Well Field [SWF], the off-site Seep surface-flow capture sump, and related treatment systems) and its performance in carrying out the perchlorate removal program;
- The distribution of total dissolved solids (TDS) concentrations at the Site; and
- Proposed future activities.

Annual groundwater sampling (completed in the second calendar quarter) is a coordinated sampling event with several neighboring companies participating. Data from groundwater samples collected by neighboring companies are incorporated into the potentiometric, total chromium, perchlorate, and TDS maps. For the 2013 Annual Remedial Performance Report, the Trust received information from American Pacific Corporation (AMPAC), Olin/Stauffer/Syngenta/Montrose (OSSM), Southern Nevada Water Authority (SNWA), and Titanium Metals Corporation (TIMET); their data were integrated into the development of these maps.

This report is provided in both hard copy and electronic forms. Where electronic files are referenced or information is stated as provided on compact disc (CD), this information is contained on the CD attached to the hard copy report. Appendix A contains two tables (as hard copy and on the report CD): Table A-1, which has five quarters of analytical data from the Site, and Table A-2, which has second quarter 2013 data from AMPAC, OSSM, SNWA, and TIMET used to supplement Plates 2, 6, 7, and 8 in this report. Appendix B contains the Electronic Data Deliverable (EDD). The EDD includes an Access© compatible data file (on the report CD) containing the analytical results from the period January to June 2013, and an Access© compatible data file (on the report CD) containing water level monitoring data from the period January to June 2013.⁵ Appendix C contains the Data Validation Summary Report (DVSR) (on the report CD). Appendix D contains the field records from January to June 2013 (on the report CD).⁶

⁵ The EDD for the July to December 2012 time period was previously submitted as part of the 2012 Semi-Annual Remedial Performance Report for Chromium and Perchlorate, dated March 1, 2013.

⁶ Field records for the July to December 2012 time period were previously submitted as part of the 2012 Semi-Annual Remedial Performance Report for Chromium and Perchlorate, dated March 1, 2013.

2 Area Groundwater Conditions

The locations of the groundwater extraction well fields are shown on Figure 1, a location map covering the area between the Site and Las Vegas Wash. This section provides a discussion of the performance of each of the well fields, starting with the on-site extraction well field and proceeding to the successively northward (downgradient) extraction well fields. Plate 1 shows the locations of all former and current wells in the vicinity.

Ground surface elevations across the Site range from 1,677 to 1,873 feet above mean sea level. The ground surface across the Site generally slopes downward to the north at a gradient of approximately 0.02 feet per foot (ft/ft). Off-site to the north, the topographic surface continues at the same gradient to approximately Sunset Road, at which point it flattens to a gradient of 0.01 ft/ft to the Las Vegas Wash. The shallow groundwater gradient generally mimics the surface topography.

The NDEP has defined three water-bearing zones (WBZs) that are of interest in the vicinity of the Site, including the Shallow, Middle, and Deep Zones.⁷ The Shallow Zone, which extends to approximately 90 feet below ground surface (bgs), is unconfined to partially confined, and is considered the water table aquifer. Unless otherwise stated, discussions of groundwater in this report refer to the Shallow Zone, which contains the saturated portions of the Quaternary alluvium (Qal) and the uppermost portion of the Muddy Creek Formation (UMCf).

During the current reporting period, shallow groundwater is generally encountered in on-site wells between 20 and 50 feet bgs and is generally deepest in the southernmost portion of the Site. North of the Site, beyond Boulder Highway, shallow groundwater is generally encountered between four and 30 feet bgs, becoming shallower as it approaches the Las Vegas Wash. Plate 2, the *Potentiometric Surface Map: Shallow Water-Bearing Zone, Second Quarter 2013*, is based on groundwater elevation measurements collected from the Trust, AMPAC, OSSM, SNWA, and TIMET wells during second quarter 2013.

The potentiometric surface map for the shallow zone was created by interpolating measured water levels at shallow zone wells onto a grid using KT3D_H2O⁸ (v3.0) and then contouring the gridded data using ArcGIS Spatial Analyst. KT3D_H2O is a software program specifically designed for interpolating water level data using kriging, which combines information about sources and sinks with water levels measured at wells.⁹ The major sources and sinks of water

⁷ NDEP guidance for the water-bearing zones can be viewed at http://ndep.nv.gov/bmi/docs/090106_hydro_litho.pdf

⁸ Karanovic, M., Tonkin, M., and Wilson, D. 2009. KT3D_H2O: A Program for Kriging Water Level Data Using Hydrologic Drift Terms. *Ground Water*, Vol. 47, NO. 4:580-586.

⁹ One limitation of KT3D_H2O is that it cannot represent a barrier to groundwater flow, such as the barrier wall downgradient of the IWF. In the vicinity of the IWF, the barrier wall has a significant effect on the potentiometric surface, so instead of KT3D_H2O a different approach was used to generate contours for the inset map showing the IWF. The potentiometric surface near the IWF was estimated by fitting the trend in water levels using an analytical element model and then kriging the well measurements after removing the trend. The simple analytic element model included the extraction wells at the IWF and the barrier wall, and was developed using the Tim^{ML} software v3.4 (a multiaquifer analytical element model). This approach is essentially equivalent to the KT3D approach, but allows the inclusion of the barrier wall. The final potentiometric surface was calculated as the sum of the trend obtained from the analytical element model and the output from kriging of the detrended data. The

that were incorporated into the interpolation using KT3D_H20 were: Trust extraction wells from all three wellfields, OSSM extraction wells and injection trenches, AMPAC extraction wells, and the Birding Pond.

Wells in which the potentiometric surface is located in the shallow UMCf are highlighted in yellow in Plate 2. Wells where the potentiometric surface is located in the Qal overlying the UMCf are not highlighted. Groundwater flow direction is generally north to northwesterly; whereas north of the Site, the direction changes slightly to the north-northeast. This generally uniform flow pattern may be modified locally by subsurface alluvial channels from the Qal cut into the underlying UMCf, the barrier wall, on- and off-site artificial groundwater highs or “mounds” created around the on-site recharge trenches¹⁰ and City of Henderson (COH) Water Reclamation Facility (WRF) Rapid Infiltration Basins (RIBs)¹¹, and groundwater extraction at the well fields.

Investigations of the Middle WBZ at the Site and surrounding sites indicate, with a few exceptions, a vertical upward gradient between the Middle and Shallow Zones that generally increases with depth.¹² In the vicinity of the IWF, vertical upward gradients between the Middle and Shallow Zone wells ranged from three to 10 feet. Upward vertical gradients were generally more prominent near the western and central portions of the barrier wall during this reporting period. At the AWF there are two wells screened within in the UMCf, PC-134A and PC-137, to depths of 70 and 73.6 feet, respectively. During this reporting period, vertical gradients were measured as +0.3 feet at PC-135A and -1.4 feet at PC-137. Consistent vertical gradients were not observed near the SWF due to a lack of wells screened below the Qal.

During the current reporting period ending June 2013, groundwater levels at the Site were relatively consistent with the previous five quarters, with the exception of wells in the vicinity of the barrier wall. Between April and June 2013, many of the active IWF pumping wells (I-series wells), which are located directly upgradient of the barrier wall, had water levels that were approximately five to 15 feet higher than the same period in 2012. Higher water levels were first noted in IWF pumping wells during November 2012, before returning to levels consistent with those measured in previous quarters between December 2012 and April 2013. However, monitoring wells in the vicinity of the barrier wall have remained elevated. Water levels just south (upgradient) of the barrier wall (e.g., wells M-36, M-38, M-56, M-60, M-65, and M-66) were generally two to four feet higher during November 2012 than at any time during the previous five quarters and generally remained elevated through the end of the current reporting

resulting grid of interpolated water levels was contoured using ArcGIS Spatial Analyst in the same way as for the other areas.

¹⁰ Reinjection of stabilized Lake Mead water ceased in September 2010 as the recharge trenches were removed to accommodate soil excavation activities at the Site. They have not been replaced.

¹¹ Since the completion of the COH WRF in 2008, discharge of treated effluent to the Pabco Road RIBs has ceased; however, significant groundwater mounding events continue to be observed. The current mounding events are likely attributable to the operation of the birding preserve ponds located west of the RIBs.

¹² ENVIRON International Corp., 2012. Remedial Investigation and Feasibility Study Work Plan, Nevada Environmental Response Trust Site, Henderson, Nevada. December 17.

period. Similarly, water elevations to the north (downgradient) of the barrier wall (e.g., wells M-70, M-71, M-72, M-73) were approximately two feet higher during November 2012 and generally remained elevated through the end of the reporting period. The continued presence of elevated water levels near the IWF is likely related to heavy rainfall at the Site during this period of performance (see below).

Precipitation was higher than average during the first third of the reporting period with approximately 4.4 inches of rainfall between August and October 2012. By comparison, historical rainfall for the same August through October time period averaged only 1.0 inches over the previous 10 years of recorded data, approximately 23 percent of the rainfall received between August and October 2012.¹³ During the remainder of the reporting period, rainfall was lower than average with approximately 1.1 inches of rain between November 2012 to June 2013. Historical rainfall amounts for November through June averaged 2.7 inches over the previous 10 years of recorded data. Given the higher groundwater elevations at the end of the reporting period, it appears that the higher than average rainfall during the first half of the reporting period continues to influence Site groundwater conditions, particularly conditions near the IWF.

2.1 Interceptor Well Field Area

The location of the IWF area is shown on Figure 1 and Plate 2. A bentonite-slurry wall was constructed as a physical barrier across the higher concentration portion of the perchlorate/chromium plume on the Site in 2001. The barrier wall is approximately 1,600 feet in length and 60 feet deep and constructed to tie into approximately 30 feet of UMCf. The IWF consists of a series of 23 active groundwater extraction wells that are situated south (upgradient) of the barrier wall. Seven additional extraction wells (I-W, I-X, I-Y, I-AA, I-AB, I-AC, and I-AD) were installed and connected to the well field in 2010-2011; however, extraction from these wells has not commenced. ENVIRON understands that these additional extraction wells were installed in response to Data Gap #3 identified in the March 2010 Interim Groundwater Capture Evaluation and Vertical Delineation Report prepared by Northgate Environmental Management, Inc. (Northgate) on behalf of Tronox.¹⁴ An initial analysis of groundwater capture at the IWF, completed as part of the 2012 Annual Performance Report, led to recommendations for adjusting extraction rates of individual wells and turning on the new extraction wells (I-W, I-X, I-Y, I-AA, I-AB, I-AC and I-AD).¹⁵ Now that NDEP has approved the groundwater flow model first developed for the Site as part of Northgate's December 2010 Capture Zone Evaluation Report (2010 CZE Report),¹⁶ a work plan will be prepared describing the startup and operational procedures and the additional monitoring and analysis that would be required to evaluate the proposed changes in operation of the IWF.

¹³ Rainfall obtained from the National Oceanic and Atmospheric Administration's Las Vegas McCarran International Airport Station, GHCND:USW00023169.

¹⁴ Northgate Environmental Management, Inc. 2010. Interim Groundwater Capture Evaluation and Vertical Delineation Report, Tronox LLC, Henderson, Nevada. March 23.

¹⁵ The recommendations provided in the 2012 Annual Performance Report are referred to herein as the 2013 GWETS Optimization Project.

¹⁶ Northgate Environmental Management, Inc. 2010. Capture Zone Evaluation Report, Tronox LLC, Henderson, Nevada. December 10.

The annual average discharge rate for each IWF well active during July 2012 - June 2013 is shown on Table 1, along with the annual average discharge rates from the five previous years. The cumulative discharge of the IWF averaged 68.6 gallons per minute (gpm) over the last year (July 2012 - June 2013), which is generally consistent with the previous five years. Over the last five years of operation, the cumulative discharge of the IWF averaged 68.4 gpm. For comparison, in June 2001, prior to the installation of the barrier wall, the 22 wells comprising the IWF at that time averaged a combined discharge of 24.7 gpm.

Groundwater recharge trenches located north (downgradient) of the barrier wall were originally installed to receive extracted and treated groundwater, but have been used in the recent past to inject stabilized Lake Mead water into the subsurface to replace water extracted by the IWF. Reinjection ceased in September 2010 when the recharge trenches were removed to accommodate soil excavation and remediation activities at the Site. While the trenches are not currently in operation, evaluating the effectiveness of the recharge trench system and providing recommendations for the resumption of artificial recharge at the Site have been proposed. ENVIRON will revise and refine the approved groundwater flow model to analyze contaminant fate and transport in the area between the barrier wall and the recharge trenches as part of the GWETS 2013 Optimization Project.

Plate 3, *West-East Hydrogeologic Cross Section A-A' – Interceptor Well Field, Second Quarter 2013*, shows water levels in the pumping Interceptor wells and adjacent monitoring wells during May 2013, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the IWF. The cross section also shows the series of narrow subparallel alluvial channels separated by UMCf ridges, some of which are above the current groundwater level. In general, water elevations in monitoring wells near the IWF in May 2013 were two to five feet higher than the water elevations from one year ago. As seen in Plates 2 and 3, water levels in the pumping wells indicate that the individual wells are creating localized groundwater depression zones extending to the Qal/UMCf interface.

Figures 2a through 2d present historic (May 2006 to June 2013) water elevations for selected pairs of monitoring wells located on opposite sides of the barrier wall. As shown on the figures, between July 2012 and June 2013, water levels in wells directly downgradient (north) of the barrier wall (wells M-69 through M-72) were generally five to 10 feet lower than water elevations in corresponding wells upgradient (south) of the wall (wells I-Y, M-55, M-56, and M-58). The large drop in measured groundwater elevations across the barrier wall indicates that the wall is generally an effective barrier to shallow groundwater flow. However, concentrations of perchlorate and chromium in wells immediately downgradient of the wall have increased during this reporting period suggesting that there may be some flow past the wall, although this is difficult to ascertain at this time (see additional discussion in Section 3.1 and 4.1). As discussed above, ENVIRON will revise and refine the approved groundwater flow model to analyze contaminant fate and transport in the area between the barrier wall and the recharge trenches as part of the 2013 GWETS Optimization Project.

Figures 2a through 2d show that starting in May 2006 water levels in downgradient wells showed a continual decline until February 2008 when refurbishment of the recharge trench was completed allowing increased recharge rates and a corresponding rise in water levels. Peaks in

water levels in downgradient wells around July 2008 and May 2010 observed on Figures 2a through 2c (and to a lesser extent on Figure 2d) are in response to increased recharge rates during those times. These figures also show a significant decline in water elevations in the downgradient wells beginning around September 2010, when the recharge trenches were shut down and groundwater mounding associated with the recharge began to dissipate. ENVIRON understands that NDEP refers to this area between the barrier wall and the recharge trenches as a “dead zone” where elevated perchlorate concentrations have historically been observed. Further analysis of the fate and transport of groundwater in this “dead zone” is planned during the evaluation of the recharge trench system using the approved groundwater flow model.

Starting in September 2012, and as seen on Figures 2a through 2d, water levels downgradient of the barrier wall were approximately two to three feet higher than during the previous 12 months and remained elevated during the remainder of the reporting period. During November 2012, water elevations in upgradient wells were approximately two to four feet higher than typical, returned to previous levels in December 2012, and began rising again in January 2013. As previously discussed, higher groundwater elevations measured during the reporting period appear to be the result of heavy precipitation at the Site between August and October 2012.

2.2 Athens Road Well Field Area

Figure 1 and Plate 2 show the location of the AWF, which is approximately 8,200 feet north (downgradient) of the barrier wall and the IWF. The AWF was constructed as a series of 14 groundwater extraction wells screened in the Qal at seven paired well locations that span approximately 1,200 feet across two alluvial paleochannels located on either side of an UMCf ridge. The AWF was completed in March 2002 and continuous pumping began in mid-October of that year. The well pairs act in concert with one well pumping while the adjacent well is used to measure water levels and monitor the effect of pumping on the aquifer. In September 2006, a 15th standalone well, ART-9, began full-time operation replacing ART-6A after groundwater elevations at the AWF dropped below a level where ART-6/6A could be effective.

The annual average discharge rate for each AWF pumping well from July 2012 to June 2013 is shown on Table 2, along with the average annual discharge rates for the previous four years. The cumulative discharge rate of the AWF averaged 280.7 gpm over the last year (July 2012 - June 2013), which is higher than at any time during the previous four years. Over the last five years of operation, the cumulative discharge of the AWF averaged 268.4 gpm.

Plate 4, *West-East Hydrogeologic Cross Section B-B' – Athens Road Well Field, Second Quarter 2013*, shows the current water levels in the AWF pumping wells and adjacent monitoring wells, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the AWF. As shown on Plate 4, the extraction wells in the AWF primarily target two alluvial sub-channels separated by a ridge of UMCf. Groundwater levels are currently much lower than they were in 2002 before pumping began, and the Qal overlying the UMCf ridge has been partially dewatered. Historical groundwater level trends for selected wells are shown on Figure 3. In general, the water elevations in the AWF in May 2013 are consistent with the water elevations from one year ago.

In June/July 2010, additional groundwater wells were installed in the AWF including seven monitoring wells (PC-141 through PC-147) and four large diameter monitoring wells (ART-7B, PC-148, PC-149, and PC-150) that could be (but are not currently) used as additional extraction wells. The new eight-inch diameter well, ART-7B, is co-located with the ART-7/ART-7A extraction well pair, but with a screened interval extending deeper, down to the Qal/UMCf interface to the reported bottom of the eastern alluvial channel. Two new six-inch diameter wells, PC-148 and PC-149, are standalone wells that are situated across the top of the UMCf ridge with screened intervals almost entirely within the UMCf. Another new six-inch diameter well, PC-150, is a standalone well located west of the UMCf ridge in the western channel and is screened entirely within the Qal.

As with the new IWF wells discussed in Section 2.1, an initial evaluation of these new wells and the performance of the AWF in general was included as part of the 2012 Annual Performance Report. As a result of that evaluation, a potential gap was identified in the capture zone of the AWF centered at well PC-149 and extending to the east and west past wells PC-148 and PC-150, respectively. The initial capture zone analysis suggested that adjusting extraction rates for individual wells within the AWF and turning on wells ART-7B and PC-150 could improve capture efficiency of shallow groundwater on either side of the UMCf ridge. These proposed changes will be evaluated as part of the 2013 GWETS Optimization Project.

2.3 Seep Well Field Area

The SWF and the seep capture sump, located approximately 4,500 feet north (downgradient) of the AWF near the Las Vegas Wash, are shown on Figure 1 and Plate 2. When pumping began in July 2002, the SWF consisted of three extraction wells (PC-99R2/R3, PC-115R, and PC-116R) situated over the deepest part of the alluvial channel and a surface-capture sump for an intermittent surface seep. Five additional wells (PC-117, PC-118, PC-119, PC-120, and PC-121) were completed in February 2003 and an additional well (PC-133) was completed in December 2004, all in the SWF area. Presently, the SWF consists of 10 extraction wells—two of which (PC-99R2 and PC-99R3) are connected and operate as one combined well. The wells comprising the SWF are screened across the full thickness of the Qal and across the deepest portion of an alluvial channel. The SWF has been effective in lowering groundwater levels in this vicinity, such that the seep has not flowed since April 2007.

The annual average discharge rate for each SWF pumping well during July 2012 - June 2013 is shown on Table 3, along with the average annual discharge rates for the four previous years. The cumulative discharge rate of the SWF averaged 584.6 gpm over the last year (July 2012 – June 2013), which is the second highest average discharge in the previous five years. During the three years before the current reporting period, the cumulative discharge of the SWF had been steadily decreasing. Veolia, the GWETS operator, reported no significant operational adjustments to the SWF pumping rates during this period of performance. Decreased incidents of SWF extraction well downtime are at least partially responsible for the increase in average extraction rates during this period of performance as wells were actively extracting more of the time. During the reporting period, groundwater elevations rose by approximately one to three feet in monitoring wells near the SWF (PC-86, PC-90, PC-91, PC-94, and PC-97). The higher groundwater levels may have also contributed to increased extraction rates within the SWF.

Furthermore, over the last five years of operation, the cumulative discharge of the SWF averaged 553.9 gpm.

Plate 2 shows that south of the SWF (north of the AWF) the gradient of the north-northeast sloping potentiometric surface decreases to about 0.007 ft/ft. Recent depth to water measurements north of the COH WRF show that water elevations are up to 18 feet lower now than they were in May 2008, particularly to the south-southeast of the SWF (wells HM-2, HSW-1). This water elevation decrease is believed to be due to cessation of the discharge of treated effluent to the Pabco Road RIBs since the completion of the COH WRF in 2008.

Plate 5, *West-East Hydrogeologic Cross Section C-C' – Seep Well Field, Second Quarter 2013*, shows the current water levels in the SWF pumping wells and adjacent monitoring wells, and the relationships between the pre-pumping and current groundwater levels in the vicinity of the SWF. Plate 5 shows that the alluvial channel in the SWF is much less incised into the underlying UMCf than at the AWF, and that the configuration of the alluvial channel is a broad shallow feature about 800 feet wide and averaging about 45 feet thick. In May 2001, before pumping began, the groundwater level in the area was shallow and would intersect the surface each winter forming a seep. Based on water level measurements collected in May 2013, water levels in the SWF are generally five to ten feet lower than pre-pumping levels.

2.4 Groundwater Treatment Overview

Treatment of chromium-contaminated groundwater (primarily from the IWF) occurs via the on-site Groundwater Treatment Plant (GWTP),¹⁷ which chemically reduces hexavalent chromium and removes total chromium via chemical precipitation. A small ferrous sulfate drip system is located at the AWF lift station (Lift Station #3) to treat chromium present (at lower concentrations) in groundwater extracted by the AWF. Treatment of perchlorate-contaminated groundwater from all well fields occurs via the on-site fluidized bed reactors (FBRs), which biologically remove perchlorate as well as chlorate, nitrate, and trace concentrations of residual chromium. A simplified process flow diagram is presented on Figure 4. Monthly extraction rates for individual IWF, AWF, and SWF wells are presented in Table 4.¹⁸ Routine maintenance is completed as needed at the GWTP and FBRs. The performances of the chromium and perchlorate treatment systems are described in Sections 3.2 and 4.2, respectively.

¹⁷ By convention, the "GWTP" consists of only the on-site hexavalent chromium treatment plant. The name pre-dates the installation of any of the perchlorate treatment systems and related components.

¹⁸ The average total influent reported in Table 4 differs from the average total effluent of the GWETs system. The discrepancy is the result of flow into and out of GW-11 as well as additions of stabilized Lake Mead water, which is used to maintain the mechanical pump seals. Perchlorate removal calculations are based on the extraction rates at each individual extraction well for the AWF and the SWF. For the IWF, the influent flow rates prior to entering the GWTP are used for perchlorate removal calculations.

3 Chromium Mitigation Program

The components of the chromium capture system consist of the IWF, the barrier wall, the former recharge trenches, and the AWF. The locations of these components are shown on Figure 1. For the 12-month period from July 2012 to June 2013, a total of approximately 3,100 pounds of chromium were captured and removed from groundwater. The treatment of chromium-contaminated groundwater is discussed in Section 3.2.

3.1 Chromium Plume Configuration

Table A-1 in Appendix A contains analytical and groundwater elevation data for the last five quarters. Plate 6 presents an isoconcentration map of the chromium plume from its on-site source northward to the Las Vegas Wash. In general, the current isoconcentration map is similar to the 2012 map with some local variances:

- Along the plume's eastern boundary, data from wells POU-3 and DBMW-5 have been added to the isoconcentration map. The addition of these monitoring wells has altered the contouring on the east side of the plume when compared with previous years.
- The decrease in chromium concentration in well M-31A from 6.6 mg/L in November 2012 to 0.027 mg/L in May 2013 is likely related to groundwater dilution resulting from a nearby pipe leak (further discussion below). This well was not used for contouring as the data appears biased low due to the dilution effects from the leak.

Based on the May 2013 chromium analytical results, the portion of the chromium plume with the highest concentrations remains south of the barrier wall where it is captured by the IWF. In this area, the highest total chromium concentration occurred in extraction well I-Q (31 mg/L) in May 2012. North of the barrier wall, the highest total chromium concentration was 10 mg/L in well M-73, located north of wells I-I/I-Z. This is an increase from 8.4 mg/L measured in May 2012 and 9.1 mg/L measured in May 2011. North of the former recharge trenches, the highest total chromium concentration detected was 5.2 mg/L in well PC-136, located in the alluvial sub-channel east of the UMCf ridge at the AWF. This concentration is an increase from 4.6 mg/L measured in May 2012. Concentrations in well M-12A, located on the trailing edge of the main plume, have generally been slowly declining. In May 2013, the concentration in M-12A was 9.3 mg/L compared with 25 mg/L in May 2002. An on-site water pipe leak was discovered in the vicinity of well M-31A in January 2013 resulting in a release at the ground surface of approximately 10 gpm of water through the end of the reporting period. It is believed the sudden decrease in chromium concentrations, as well as TDS and perchlorate, in M-31A is related to dilution resulting from this water leak.

Total chromium concentrations in wells immediately downgradient of the barrier wall (M-70, M-71, M-72, M-73 and M-74) in the so called "dead zone" have increased slightly, except in well M-70 where the concentration decreased slightly from the previous year. Soil excavation activities in the vicinity of the former recharge trenches in 2010/2011 resulted in the plugging and abandonment of groundwater monitoring wells in this area including M-84, M-85, M-86A, M-87, and M-88. As mentioned above, ENVIRON plans further analysis of the fate and transport

of groundwater in the “dead zone”. Potential replacement of monitoring wells in this area will also be evaluated as part of this analysis.

The overall lower concentrations observed in on-site wells located downgradient of the barrier wall compared with those upgradient indicate that the IWF is generally an effective barrier to migration of the main portion of the chromium plume. However, concentrations of chromium have increased during this reporting period in wells immediately downgradient of the wall, particularly in M-71 (9.1 mg/L), M-72 (7.7 mg/L) and M-73 (10 mg/L) suggesting that there may be some flow past the wall, although this is difficult to ascertain completely at this time. The predominantly upward vertical gradients and the fact that the barrier wall is keyed into the UMCf are important factors expected to limit flow beneath the barrier. As seen in Plate 3, concentrations of chromium in deeper wells immediately downgradient of the barrier wall are significantly lower than the co-located shallower wells indicating that underflow is likely not a significant contributor of chromium immediately downgradient of the barrier wall. Similarly, flow through the wall cannot be substantiated with the current data. The possibility that the significant rainfall during this period of performance has caused mobilization of soil-bound contaminants from soils downgradient of the barrier wall (as we believe has occurred throughout the Site) cannot be ruled out as a contributor to the elevated concentrations; however, based on the known behavior of Site contaminants in soil mobilization in this manner is expected to be more of a concern for perchlorate than for chromium. To evaluate this issue in greater depth, ENVIRON will use the approved groundwater flow model to analyze contaminant fate and transport in the area between the barrier wall and the recharge trenches as part of the 2013 GWETS Optimization Project.

3.1.1 Interceptor Well Field Area

The IWF captures the highest concentrations and the main portion of the groundwater plume located downgradient of the on-site source areas. Plate 3 shows the total chromium concentration in each well during May 2013. Figure 5 shows the concentrations of total chromium in the 23 active IWF pumping wells over the last five quarters. Five additional I-series wells (I-AA, I-AB, I-W, I-X, and I-Y), which are not currently operated as pumping wells, were sampled in June 2013 and are included in Figure 5. Chromium concentrations during May 2013 were generally similar to previous quarters with the exception of wells I-T and I-U, adjacent wells near the center of the IWF. As shown on Figure 5, chromium concentrations were lower in these wells during November 2012 and again May 2013. ENVIRON believes the periodic decreases in chromium concentration in wells I-T and I-U are due to a combination of factors such as preferential flow pathways within UMCf alluvial channels and variations in infiltration rates following periods of heavy rainfall. These periodic decreases in chromium concentration will be evaluated using additional groundwater data collected in 2013 and 2014 as part of the ongoing groundwater monitoring program.

Chromium concentration data from select wells (M-11, M-23, M-36, M-72, and M-86)¹⁹ over time are presented in Figure 6. In monitoring well M-11, located immediately downgradient of the

¹⁹ These wells were selected because they are the five “Consent Order Appendix J Wells”.

former primary source area (Units 4 and 5), concentrations have remained relatively stable over the last eight years with a concentration of 1.9 mg/L reported in May 2013. Total chromium concentrations measured in well M-36, located upgradient of the IWF, declined over the reporting period (to 22 mg/L in May 2013), a continuation of a trend dating back to 2004 when the concentration was 45 mg/L. Concentrations in well M-72, located in the so-called “dead zone” between the barrier wall and former recharge trenches, have increased during the reporting period to a concentration of 7.7 mg/L in May 2013 from 5.6 mg/L in May 2012. Concentrations in well M-72 and surrounding wells have been gradually increasing since approximately November 2010, following the shutdown of recharge trenches in September 2010. Starting in August 2007, concentrations had been increasing slightly (from 0.43 mg/L to 2.7 mg/L) in well M-86, located just northeast of the recharge trenches. However, well M-86 was damaged during recharge trench refurbishment activities in 2008 and was subsequently plugged and abandoned.

3.1.2 Athens Road Well Field / Seep Well Field Areas

The AWF is designed to intercept residual chromium in groundwater downgradient of the IWF and the Site. As shown on Plate 6, based on total chromium concentrations in groundwater downgradient of the AWF, the system appears to be operating effectively; however, capture gaps identified in the 2012 Annual Report indicate that chromium capture could be further improved by adjusting pumping rates in active extraction wells, as well as bringing certain new extraction wells online. These initial recommendations will be further refined as part of the 2013 GWETS Optimization Project. Downgradient of the AWF in the Athens Road Piezometer or “ARP” well line, the highest measured concentration of total chromium during the second quarter 2013 sampling event was 0.27 mg/L in well ARP-6B. Chromium concentrations are also typically higher in MW-K4. However, no groundwater samples were collected in well MW-K4 during May 2013 due to an obstruction in the well which was removed after the end of this reporting period.

Plate 4 shows the current total chromium concentration in each AWF well including wells PC-148, PC-149, and PC-150, which were installed in June 2010. Figure 7 shows the concentrations of total chromium across the seven AWF pumping wells in addition to monitoring wells PC-18, PC-55, PC-122, PC-148, PC-149, and PC-150 over the last five quarters, where data is available. As mentioned previously, PC-148 and PC-149 are monitoring wells that are situated across the top of the UMCf ridge with screened intervals primarily within the UMCf. As shown on Figure 7, chromium concentrations in the western sub-channel (represented by wells west of PC-149) have been low relative to those in the eastern sub-channel (represented by wells east of PC-148). This narrow area of higher concentrations in the eastern sub-channel can be seen on Plates 4 and 6. An additional extraction well, ART-9, was installed in this area in 2006 to capture this narrow channel of chromium-impacted groundwater. Consequently, a decline in chromium concentrations occurred in well PC-122 from 1.5 mg/L to 0.10 mg/L between November 2006 and February 2007. Total chromium concentrations in well PC-122 have remained relatively low since the start-up of ART-9. Well PC-122 contained a total chromium concentration of 0.19 mg/L in May 2013. Total chromium present in groundwater collected in this area continues to be treated at Lift Station #3, where metered ferrous sulfate is added before the water is sent to the on-site perchlorate treatment system.

Wells in the SWF continue to contain generally less than 0.01 mg/L total chromium. Total chromium concentrations in wells to the east of the SWF are slightly higher, but stayed generally constant over the reporting period. For example, concentrations of total chromium in monitoring well PC-94, located east of the well field, were measured at 0.036 mg/L in May 2013, compared to a concentration of 0.031 mg/L in May 2012. As mapped on Plate 6, chromium-impacted groundwater from the Upper BMI Ponds east of Pabco Road appears to be co-mingling with the residual chromium plume north of the AWF. As discussed in Section 2.3, water elevations in this area dropped between three and 18 feet between 2008 and 2009 due to cessation of discharge of treated effluent in the Pabco Road RIBs.

3.2 Chromium Treatment System and Remediation

The operation and maintenance of the chromium mitigation program as well as the rest of the GWETS was operated by Veolia through the end of the current reporting period. As discussed in Section 1, Envirogen assumed operation and maintenance duties at the Site on July 24, 2013, after the conclusion of the current reporting period.

Table 5 contains the July 2012 to June 2013 process treatment data from the on-site GWTP. The treated groundwater from the GWTP is pumped to the equalization tanks, where it is combined with water from the off-site groundwater collection systems. From the equalization tanks, the blended water flows through activated carbon beds before being filtered and pumped to the FBRs for treatment to remove perchlorate, chlorate, and nitrate.

As shown in Table 5, the total chromium inflow concentration to the GWTP has been relatively stable in the range of 8.7 to 10.5 mg/L, which is slightly greater than the range of 9.3 to 10.2 mg/L from one year ago. The chemical reduction of hexavalent chromium and removal of total chromium via the GWTP during the reporting period has been consistently effective. The average monthly total chromium outflow concentrations for the last 12 months ranged from 0.080 to 0.348 mg/L. The average monthly hexavalent chromium outflow concentration during the reporting period ranged from 0.0003 mg/L to 0.145 mg/L. For the period between July 2012 and June 2013, approximately 2,900 pounds of chromium were removed from groundwater by the GWTP.

A lesser amount of chromium is also removed in the FBRs. Results of total chromium analysis from weekly FBR influent and effluent samples are presented in Table 6. Based on an average influent total chromium concentration of 0.060 mg/L and an average flow rate of 909 gpm,²⁰ the FBRs were receiving about 0.65 pounds of chromium per day from the equalization tanks. This total includes chromium captured in the AWF and reductively treated with ferrous sulfate drip at Lift Station #3.

The FBRs discharge treated water to the Las Vegas Wash just upgradient of the Pabco Road erosion control structure under authority of National Pollutant Discharge Elimination System

²⁰ This flow rate is measured at the effluent totalizer and measures the throughput at the FBRs. This flow is not the same as the cumulative groundwater extraction rate as measured by the extraction well totalizers, since these readings do not account for flow into and out of GW-11 as well as additions of stabilized Lake Mead water, which is used to maintain the mechanical pump seals.

(NPDES) Permit NV0023060. Results of discharge monitoring performed between July 2012 and June 2013 are presented in Table 6. Effluent hexavalent chromium concentrations have been between non-detect (<0.000009 mg/L²¹ [July 2012 to May 2013] or <0.00025 mg/L²² [April to June 2013]) and 0.00031 mg/L – well below the effluent discharge limitation of 0.01 mg/L (7-day average). Total chromium was detected in effluent samples at concentrations ranging from 0.0020 to 0.027 mg/L, with an average concentration of 0.010 mg/L – well below the effluent discharge limitation of 0.1 mg/L (7-day average).

The FBR system removed approximately 200 pounds of additional chromium over the 12-month period. The sum of the chromium captured and removed from groundwater between July 2012 and June 2013 by the GWTP and by the FBRs totaled approximately 3,100 pounds.

²¹ Eaton Analytical's sample quantitation limit (SQL) for hexavalent chromium.

²² TestAmerica's SQL for hexavalent chromium.

4 Perchlorate Recovery Program

The components of the perchlorate capture system consist of the IWF, the barrier wall, the former recharge trenches, the AWF, the SWF, and the seep surface-flow capture sump. The locations of these components are shown on Figure 1. The daily average mass of perchlorate removed by the IWF, AWF, and SWF is presented in Table 7. Figure 8 presents the monthly perchlorate recovery totals and the relative contribution of the IWF, AWF, and SWF.

During the period July 2012 through June 2013, a total of approximately 633,000 pounds of perchlorate (approximately 1,740 pounds per day) were captured and removed from groundwater by the GWETS. Of this total, approximately 388,000 pounds (approximately 1,070 pounds per day) were captured on-site in the IWF; approximately 224,800 pounds (approximately 620 pounds per day) were captured by the AWF; and approximately 20,700 pounds (57 pounds per day) were captured by the SWF.

The quantity of perchlorate removed during the current reporting period represents a significant increase over the previous year when a total of approximately 503,000 pounds of perchlorate were captured and removed from groundwater by the GWETS. As described below, the increase in perchlorate concentrations and removal was particularly pronounced in the IWF.

4.1 Perchlorate Plume Configuration

Table A-1 in Appendix A contains analytical and groundwater elevation data for the last five quarters. Plate 7 shows the contoured perchlorate plume from the south end of the Site to the Las Vegas Wash, based on data collected in May and June 2013. In general, the current isoconcentration map is similar to the 2012 map with some local variances:

- Upgradient (south) of the barrier wall, the region with perchlorate concentrations greater than 1000 mg/L has expanded in comparison to the 2012 map. This interpretation is consistent with the observed increase in perchlorate concentration in many IWF wells (Figure 9) and increase in perchlorate removal at the IWF (Table 7).
- Downgradient of the barrier wall, perchlorate concentrations have increased in wells M-70 and M-71, expanding the area with concentrations of perchlorate over 1,000 mg/L.
- Along the plume's eastern boundary, data from wells POU-3 and DBMW-5 have been added to the isoconcentration map. The addition of these monitoring wells has altered the contouring on the east side of the plume when compared with previous years.
- As previously discussed, the decrease in perchlorate concentration in well M-31A from 880 mg/L in November 2012 to 1.4 mg/L in May 2013 is likely related to groundwater dilution resulting from a nearby pipe leak. This well was not used for contouring since the data appears biased low due to the dilution effects from the leak.

Based on May 2013 perchlorate analytical results, the highest perchlorate concentration south (upgradient) of the barrier wall occurred in well I-X (3,300 mg/L). Prior to November 2012, the highest perchlorate concentration south of the barrier wall was typically about 2,100 mg/L and centered at extraction well I-AR. Recent changes in perchlorate concentrations within the IWF are further discussed in Section 4.1.1.

North of the barrier wall, the highest perchlorate concentrations were detected in wells M-70 (1,500 mg/L) and M-72 (1,300 mg/L). While concentrations of perchlorate in well M-72 were consistently greater than 1,000 mg/L during the previous year, perchlorate concentrations in well M-70 were between 380 to 610 mg/L in the four quarters prior to May 2013. Concentrations of perchlorate in well M-71 have also steadily increased over the previous three quarters from 510 mg/L in August 2012 to 1,100 mg/L in May 2013. As previously discussed in relation to chromium, the observed increases in perchlorate concentration downgradient of the barrier wall suggest that there may be some flow past the wall, although this is difficult to ascertain at this time. The predominantly upward vertical gradients and the fact that the barrier wall is keyed into the UMCf are important factors expected to limit flow beneath the barrier. As seen in Plate 3, concentrations of perchlorate in deeper wells immediately downgradient of the barrier wall are significantly lower than the co-located shallower wells indicating that underflow is not likely a significant contributor of perchlorate immediately downgradient of the barrier wall. Similarly, flow through the wall cannot be substantiated with the current data. The possibility that the significant rainfall during this period performance has caused mobilization of soil-bound perchlorate in soils downgradient of the barrier wall (as we believe has occurred throughout the Site) cannot be ruled out as a contributor to the increased concentrations. To evaluate this issue in greater depth, ENVIRON will use the approved groundwater flow model to analyze contaminant fate and transport in the area between the barrier wall and the recharge trenches as part of the 2013 GWETS Optimization Project.

North of the former recharge trenches, the highest perchlorate concentration was 820 mg/L in well M-44, located between Warm Springs Road and Boulder Highway. North of the AWF, at the ARP well line, the highest concentration was 280 mg/L in well MW-K4. The highest perchlorate concentration reported in the SWF was 18 mg/L in well PC-99R2/R3.

Comparing Plate 7 with Plate 7a, which shows the contoured perchlorate plume from second quarter 2002, shows that significant changes in the perchlorate plume have occurred over the last 11 years. In 2002, the highest perchlorate concentration (at well M-37, adjacent to well I-AR) was 5,300 mg/L. By 2013 the perchlorate concentration in well M-37 has decreased to 2,300 mg/L. As shown on Plate 7a, in 2002 a large area downgradient of the barrier wall contained perchlorate in excess of 1,000 mg/L, including wells M-23 and M-44 with concentrations of 1,430 mg/L and 1,400 mg/L, respectively. Concentrations at the downgradient edge of the plume in 2002 were as high as 160 mg/L (wells PC-115R, PC-116R, PC-99R2/R3) adjacent to the Las Vegas Wash. In May 2013, wells M-23 and M-44 had perchlorate concentrations of 210 mg/L and 820 mg/L, respectively, and the highest perchlorate concentration reported in the SWF was 18 mg/L in well PC-99R2/R3. The concentration of perchlorate in well PC-90, which had the highest concentration of perchlorate (18 mg/L) at the seep well field during November 2012, decreased to 6.8 mg/L by June 2013.

4.1.1 Interceptor Well Field Area

The IWF targets the highest concentrations of perchlorate at the Site. In general, perchlorate concentrations in groundwater downgradient of the IWF and barrier wall (up to 1,500 mg/L) are significantly below concentrations observed in groundwater upgradient of the IWF and barrier wall (up to 3,300 mg/L). Plate 3 shows the IWF in cross-section with the current perchlorate concentration for each well. Figure 9 represents a west-east transect through the IWF showing perchlorate concentrations for the 23 active IWF wells in May 2002 compared to the last five quarters. As previously mentioned, five additional I-series wells (I-AA, I-AB, I-W, I-X, and I-Y), which are not currently operated as pumping wells, were sampled in June 2013 and are included in Figure 9.

As seen in Figure 9, in the two quarters prior to November 2012, perchlorate concentrations in IWF wells were generally less than about 2,000 mg/L and the perchlorate plume captured by the IWF was typically divided into two areas of higher perchlorate concentrations separated by an area of lower concentrations centered on well I-M. The elevated perchlorate concentrations west of I-M typically existed in a relatively narrow area centered on wells I-R and I-AR,²³ while the elevated perchlorate concentrations east of I-M typically spanned a broader area extending from wells I-E to I-I (this concentration profile is similar, but more pronounced in the dashed red line in Figure 9 depicting the May 2002 data). However, starting in November 2012, higher than typical perchlorate concentrations were first detected in the central portion of the IWF (centered at well I-N). Increases in perchlorate were also detected in certain western (I-S, I-M, and I-E) and eastern (I-V) IWF wells. Since November 2012, there has been significant variability in the perchlorate concentrations in the IWF wells. Perchlorate concentrations in well I-N have gradually decreased, but are still elevated compared to historic levels. West of I-N, wells I-S and I-E increased in February 2013, but have since decreased in May 2013. Moreover, perchlorate concentrations in well I-M have decreased since February 2013 while concentrations in I-C have increased significantly during the same time period. And although the perchlorate concentrations in well I-V on the east side of the IWF have decreased since November 2012, a broader area of higher concentrations centered at I-V has developed as evidenced by elevated concentrations in wells I-H, I-P, I-O, I-V, I-I, I-Z and I-J. Overall, while perchlorate concentrations had been gradually declining in the IWF since sampling began in May 2002, concentrations in wells I-C, I-D, I-M, I-E, I-N, I-F, I-V, I-I, I-Z, I-J and I-K exceeded these historic levels during the most recent sampling period.

A combination of factors is likely responsible for the observed changes in perchlorate concentrations within the IWF wells, including the significant rain events during the period of performance, the alteration of Site drainage patterns resulting from recent Site excavation and grading, the mobilization of soil-bound perchlorate from infiltration at the newly constructed central retention basin, and the influence of subsurface alluvial channels within the UMCf. As discussed above in relation to Figure 9, during the latter half of the performance period, perchlorate concentrations gradually moderated near well I-N and increased in a broad area

²³ Well I-AR is a pumping well located approximately 350 feet south of the primary IWF well line.

centered on well I-V on the east side of the IWF, indicating residual impacts from factors discussed above are likely continuing.

Figure 10 charts perchlorate concentrations for select wells at the IWF over time and, while there is insufficient historic data regarding well operation and Site conditions to determine the root cause of historic perchlorate cycles, the graph shows generally decreasing trends since sampling for perchlorate began in 2002. Figure 10a shows perchlorate concentrations at the IWF over the last five quarters indicating that concentrations were relatively stable until November 2012. The changes in perchlorate concentrations within the IWF during November 2012 (as discussed above in relation to Figure 9) coincide with groundwater elevations which were often significantly higher in IWF and nearby monitoring wells than during the previous four quarters. Individual IWF and nearby wells will continue to be monitored in an effort to understand the relationship between groundwater elevations and perchlorate concentrations; however, it is apparent that additional perchlorate mass was mobilized via infiltration of storm water following the large rain events in the fall of 2012 and the effects on the IWF are still being observed.

Figure 11 is a west-east transect through the IWF which charts total dissolved solids (TDS) concentrations over the last five quarters. A comparison of Figure 9 and Figure 11, which show perchlorate and TDS, respectively, in each of the IWF wells, indicates that a broad zone of high TDS in the central part of the IWF remains present and coincides with the eastern area of elevated perchlorate concentrations. Starting in November 2012, TDS concentrations in some IWF wells were significantly different than during previous quarters. TDS concentrations were higher than typical in the central portion of the IWF (centered at well I-N) and inconsistently lower than typical in wells I-T and I-U. Increases in TDS were also noted in certain western (I-L and I-S) and, to a lesser extent, in eastern (centered at well I-V) wells. Wells with higher than normal concentrations of TDS from November 2012 to May 2013 generally align with the higher perchlorate results discussed above with the notable exception of wells I-U and I-T. As with perchlorate, TDS concentrations began to moderate in wells near I-N during February and May 2013, but increased in other wells (primarily in the west). Individual IWF wells will continue to be monitored for TDS in order to evaluate potential causes and whether the conditions are expected to continue.

As shown on Figure 12, the monthly average perchlorate concentrations captured at the IWF generally decreased from a high of about 1,890 mg/L in October 2002 to 732 mg/L in June 2012, the lowest recorded average concentration. The IWF's monthly average perchlorate concentration then doubled to 1,491 mg/L in December 2012. Since December 2012, perchlorate concentrations in the IWF have decreased to an average concentration of 1,109 mg/L in June 2013, but are still well above average concentrations from the same period in 2012. The calculated perchlorate mass removal has generally followed a similar trend, from a high of about 45,000 pounds removed in January 2003 to a low of approximately 16,300 pounds removed during the month of June 2012. By December 2012, the calculated perchlorate mass removal increased to approximately 40,300 pounds, the highest estimated monthly mass removal since January 2003. By June 2013, the calculated perchlorate mass removal decreased to 26,600 pounds. The performance of the IWF, including the concentrations within

individual wells, will continue to be closely monitored to evaluate the potential sources of the elevated concentrations and corresponding high mass removals.

Figure 13 charts perchlorate concentration and water elevation trends in monitoring wells M-100 and M-23, located approximately 700 and 1,300 feet north (downgradient) of the former recharge trenches, respectively. Figure 13 indicates a sharp decrease in perchlorate concentrations in both wells beginning in early 2002, shortly after the barrier wall was installed at the IWF. Water level trends reflect infiltration and mounding of water recharged to the subsurface through the former recharge trenches. Clogging of the trenches and reduced infiltration are reflected in the decreasing water levels beginning about May 2007. The trenches were subsequently refurbished in February 2008 and June 2009 with water levels in well M-100 quickly rebounding and water levels in well M-23 rebounding somewhat slower. Due to conflicts with the soil excavation program at the Site, operation of the trenches was suspended in September 2010, which corresponds with decreases in water levels in both wells M-100 and M-23. Well M-100 has been dry since December 2010. The water level in well M-23 has decreased approximately six feet since the trenches were shut down. Perchlorate concentrations in well M-100 remained relatively stable from 2008 through 2010. Perchlorate concentrations in well M-23 have remained relatively stable since July 2006. As mentioned previously, evaluation of the effectiveness of the former recharge trench system will be performed during the 2013 GWETS Optimization Project.

4.1.2 Athens Road Well Field Area

The AWF captures perchlorate in groundwater at concentrations generally less than 500 mg/L. Plate 4 shows the AWF in cross-section with the current perchlorate concentration for each well. A west-east transect through the AWF which charts perchlorate concentrations for the last five quarters is shown on Figure 14. Perchlorate concentrations in the AWF's seven pumping wells are shown, in addition to monitoring wells PC-18, PC-55, PC-122, PC-148, PC-149, and PC-150. As shown on the figure, the plume is stable and perchlorate concentrations on the western (PC-55 and ART-1) and eastern (PC-122) edges of the well field continue to remain relatively low.

The perchlorate concentration trends of the pumping wells in the AWF are shown on Figures 15 and 15a. Figure 15 shows that overall perchlorate concentrations in the AWF have generally been declining since 2002. Concentrations in individual wells fluctuate with each sampling event, but for most wells these fluctuations have moderated with time. Figure 15a, an expanded view of the last five quarters of Figure 15, indicates that recent concentrations in the AWF pumping wells have remained relatively stable with some variation in May 2013, particularly in ART-4 and ART-9. The reason for the variability in the perchlorate concentrations in these wells in May 2013 is not immediately apparent. As shown on Figure 16, the perchlorate concentration measured in the AWF is currently at the low-end of its historic range and the average perchlorate mass removed from the AWF was approximately 16,316 pounds in June 2013.

Starting in August 2006, TDS data have been collected from the AWF. Figure 17 is a west-east transect through the AWF which charts TDS concentrations for the last five quarters. The figure

shows that two zones of higher TDS exist at the AWF, centered on PC-18 on the west (10,000 mg/L in May 2013) and highest at PC-122 on the east (11,000 mg/L in May 2013).

Approximately 250 feet north of the AWF, eight wells comprise the Athens Road Piezometer or “ARP” well line. A graph of perchlorate concentrations across the ARP well line transect is presented on Figure 18, and perchlorate concentrations in these wells over time are shown on Figures 19 and 19a. Figure 19 contains concentration-time plots beginning in late 2001, and Figure 19a shows an expanded view of the last five quarters.

As shown on Figure 18, perchlorate concentrations in the western side of the well line (represented by ARP-1, ARP-2/2A, and ARP-3/3A) and the eastern side of the well line (represented by ARP-4/4A, ARP-5/5A, ARP-6/6A/6B and ARP-7) have significantly decreased since 2002. This indicates that the AWF has been effective in capturing perchlorate contaminated groundwater in these sections of the plume. Perchlorate concentrations in the center of the ARP well line at MW-K4 are significantly lower than in 2002, but remain elevated relative to the other sections of the plume. As shown on Figures 19 and 19a, with the exception of wells MW-K4 and ART-6/6A/6B, concentration trends in the ARP well line appear relatively stable. Concentrations in well MW-K4 initially declined with the onset of AWF operation in 2002 and dropped further when ART-9 began pumping in September 2006. Perchlorate concentrations in MW-K4 generally declined between January 2010 (300 mg/L) and December 2011 (150 mg/L), but rebounded from January 2012 to September 2012, once again reaching 300 mg/L. During the last three months of 2012, perchlorate levels in MW-K4 declined to a low of 210 mg/L before increasing during the first four months of 2013, reaching a high of 280 mg/L in April 2013. No groundwater samples were collected in well MW-K4 during May and June 2013 due to an obstruction in the well. These increases and decreases in perchlorate concentration in MW-K4 do not appear related to changes in water elevation. The higher and more variable perchlorate concentrations in well MW-K4 may be influenced by the well’s location with respect to subsurface alluvial channels within the UMCf. Perchlorate concentration in MW-K4 may also be influenced by the length of the well’s screened interval, which extends deeper into the UMCf than other ART-series wells. Concentrations in well ARP-6/6A/6B have decreased in the last year from 52 mg/L in May 2012 to 43 mg/L in May 2013. The fate and transport of groundwater in the AWF area and the observation of increasing concentrations in wells MW-K4 and ARP-6/6A/6B will be evaluated as part of the 2013 GWETS Optimization Project. In addition, as mentioned previously, the 2013 GWETS Optimization Project also proposes pumping from ART-7B and PC-150 to improve capture efficiency and maximize mass removal at the AWF.

Between the ARP well line and the SWF are the City of Henderson (COH) WRF and the Lower Ponds monitoring well lines. Perchlorate concentration in the COH WRF wells on a west-east transect are shown on Figure 20. Figures 21 and 21a present perchlorate concentration trends for these same wells over time. As shown in the figures, current perchlorate concentrations are well below levels measured in the same wells in May 2002, especially in the center of the well line as shown on Figure 20. As shown on Figure 21, perchlorate concentrations at the COH WRF well line have been stable since mid-2007.

Figure 22 shows historical water elevations at the COH WRF well line. This figure indicates that many of the historical low-concentration events in the wells appear to be associated with a rapid increase in the water levels, likely the result of increased infiltration from the COH WRF surface ponds. The significant groundwater “mounding events” since 2008 (when the operation of the COH RIBs ceased) are not as pronounced as previous ones and are presumed to be related to operation of the COH birding ponds. However, no significant mounding events have occurred since late-2011.

The Lower Ponds well line is approximately 2,200 feet north of the COH WRF well line. Figures 23, 24, and 24a, the perchlorate west-east transect and trend graphs for the Lower Ponds well line, show that current perchlorate concentrations are well below levels measured in the same wells in May 2002, especially at well PC-56 (Figure 23). Figure 24 shows that perchlorate concentrations present in the Lower Ponds well line are generally low and, with the exception of well PC-56, have been relatively stable since 2007. As shown on Figures 24 and 24a, perchlorate concentrations in well PC-56 historically have been more variable than in other wells on the Lower Ponds well line. Concentrations in well PC-56 were 3.3 mg/L in January 2011, 12 mg/L in February 2011, 7 mg/L in June 2011, and 23 mg/L in September 2012. At the end of the current reporting period, the concentrations had decreased slightly to 18 mg/L. The higher and more variable perchlorate concentrations in well PC-56 may be influenced by the well's location with respect to a mapped subsurface alluvial channel that runs north-south back towards the AWF. According to boring logs for these wells, the UMCf was encountered 12 to 20 feet deeper in PC-56 compared to nearby wells PC-58 and PC-60 indicating it is within a narrow alluvial channel incised within the UMCf.

4.1.3 Seep Well Field Area

At present, the SWF consists of 10 extraction wells – two of which (PC-99R2 and PC-99R3) are connected and operate as one – positioned over the deepest part of the alluvium channel that contains the highest concentrations of perchlorate (relative to other SWF wells). The well field is located approximately 600 feet upgradient of the seep capture sump; however, the seep has not flowed since April 2007. The original three recovery wells in the SWF commenced pumping in August 2002. In February 2003, five additional wells (PC-117, PC-118, PC-119, PC-120, and PC-121), and in December 2004, one additional well (PC-133), were completed in the SWF. Wells PC-120 and PC-121, located at the west end of the SWF line and away from the deepest portion of the subsurface alluvial channel, have not been continuously pumped since 2005 due to their low perchlorate removal efficiencies when compared with the remainder of SWF wells. Wells PC-120 and PC-121 are turned on for sampling and are actively pumped when other SWF wells are not operating due to malfunction or maintenance.

The SWF contributes the highest flows (average of 584.6 gpm between July 2012 and June 2013) compared with the IWF (68.6 gpm) and the AWF (280.7 gpm) to the GWETS, but captures significantly lower concentrations of perchlorate (generally less than 10 mg/L). Because of the low concentrations captured at the SWF, the perchlorate mass removed from the environment via the SWF is substantially less than that removed via the IWF or AWF (see Figure 8 and Table 7).

Plate 5 shows the perchlorate concentrations in individual wells in the SWF as of May 2013. Figure 25 shows perchlorate concentrations for the last five quarters along with concentrations for each well during its first month of operation. Figure 26 shows that perchlorate concentrations have significantly decreased in the original pumping wells since 2002. As seen on Figure 26a, concentrations in wells PC-99R2/R3, PC-115R, and PC-116R are markedly lower during November 2012 than during the months directly preceding and following. This figure also shows that SWF wells with low concentrations of perchlorate (PC-119, PC-120, PC-121) have been relatively stable over the last year with the exception of PC-133, which steadily increased from 0.63 mg/L in May 2012 to a high of 16.0 mg/L in February 2013. However, starting in March 2013, perchlorate concentrations in PC-133 have decreased each month to a low of 8.1 mg/L in the most recent sample in June 2013. ENVIRON's review of lithologic logs, water levels, nearby concentrations, and flow rates at the SWF has not identified a definitive cause for the observed increase and subsequent decrease in perchlorate concentrations in PC-133. We note that PC-133 is on the eastern edge of the alluvial channel away from the other SWF pumping wells, which pump at significantly higher rates compared to PC-133. Plans are being prepared for the rehabilitation of PC-133 in an effort to maximize its performance.

TDS concentrations in the SWF wells for the last five quarters are plotted on Figure 27. The highest TDS concentration (5,200 mg/L) in May 2013 was measured in well PC-99R2/R3, which corresponds with the highest perchlorate concentration in the SWF during May 2013 (18 mg/L). While perchlorate concentrations were higher in PC-133 than PC-99R2/R3 during November 2012 and February 2013, higher TDS concentrations generally correspond with higher perchlorate concentrations. During the reporting period, TDS concentrations increased in well PC-133 and the central portion of the SWF (centered on well PC-99R2/R3), while the remainder of the plume remained stable.

As shown on Figure 28, the monthly average perchlorate concentrations captured at the SWF generally decreased from a high of approximately 82 mg/L in March 2003 to an average of approximately 8.1 mg/L between July 2012 and June 2013. The calculated perchlorate mass removal has generally followed a similar trend, from a high of approximately 19,900 pounds removed in the month of April 2003 to an average of approximately 1,700 pounds removed per month between July 2012 and June 2013. The total amount of perchlorate removed by the SWF during the current reporting period is approximately 5,200 pounds greater than the same period from June 2011 to June 2012.

Data provided by the SNWA for the irrigation wells, WMW-6.15S and WMW-5.7N (shown on Plate 7 and Table A-2), completed in the Las Vegas Wash provide further evidence that the GWETS is effective in reducing concentrations of perchlorate in the Las Vegas Wash. Well WMW-6.15S, which contained 45.6 mg/L in June 2002, had a reported perchlorate concentration of 1.7 mg/L in May 2013, representing a 97.3 percent decrease. Well WMW-5.7N, located further to the east, had a reported concentration of 0.021 mg/L in May 2013, compared to a concentration of 0.43 mg/L in October 2003.

4.2 Perchlorate Treatment System and Remediation

Throughout the reporting period, groundwater was captured both on-site and off-site, conveyed to the on-site treatment facilities and treated biologically in the FBRs to remove nitrate, chlorate

and perchlorate. Effluent from the FBRs has been discharged into Las Vegas Wash consistently within the limits specified in the NPDES NV0023060 discharge permit, except as discussed below. As shown on Table 8, between July 2012 and June 2013, the perchlorate influent to the FBRs ranged from 98 mg/L to 200 mg/L. Perchlorate was generally not detected in FBR effluent at concentrations exceeding the laboratory sample quantitation level (SQL) (0.00025 to 0.0025 mg/L) with the exception of a composite effluent sample from the week of July 7, 2012. Initial laboratory results for the 7-day composite for the week of July 7th indicated an effluent perchlorate concentration of 0.22 mg/L, above the permit limit of 0.018 mg/L; however, upon evaluation of sampling procedure and plant performance, it was determined the apparent exceedance was likely due to sampling error. The exceedance was subsequently reported to NDEP's Bureau of Water Pollution Control on September 28, 2012.

5 Total Dissolved Solids

Plate 8 shows the isoconcentration contours for TDS from the southern end of the Site to the Las Vegas Wash, based on data collected in between April and June 2013. The 2013 TDS map does not differ significantly from the 2012 map. As shown previously, TDS mapping shows that the Site is located between two high TDS zones originating from off-site sources to the west and east. The highest TDS concentration at the Site detected in the shallow bearing zone occurred in well MC-29 (22,000 mg/L), located on the western side of the Site to the south of Warm Springs Road and downgradient of the off-site TDS source west of the Trust property. Figures 11, 17, and 27 show the distribution of TDS across the IWF, AWF and SWF, respectively.

6 Conclusions

The GWETS consists of three groundwater capture well fields: the IWF, the AWF, and the SWF. The IWF coupled with the barrier wall provides capture of the highest concentrations of perchlorate and chromium at the Site and significantly reduces the amount of perchlorate and chromium in downgradient groundwater. The off-site AWF, located approximately 8,200 feet downgradient of the IWF, has been in continuous operation since October 2002. The AWF captures significantly lower concentrations of both perchlorate and chromium; however due to its higher extraction rates compared with the IWF, it significantly contributes to the overall mass of perchlorate removed from the environment and mitigates its impact in downgradient groundwater. The SWF, located over the main part of the alluvium channel in close proximity to the Las Vegas Wash, contributes the highest flows (average of 584.6 gpm between July 2012 and June 2013) compared with the IWF (68.6 gpm) and the AWF (280.7 gpm) to the GWETS, but captures significantly lower concentrations than the other well fields. The seep stream has not flowed since April 2007.

Treatment of chromium-contaminated groundwater (primarily from the IWF) occurs via the on-site GWTP, which chemically reduces hexavalent chromium and removes total chromium. A small ferrous sulfate drip system also treats lower concentrations of chromium from the AWF. Treatment of perchlorate-contaminated groundwater from all well fields occurs via the on-site FBRs, which biologically remove perchlorate as well as chlorate, nitrate, and residual chromium.

For the 12-month period ending in June 2013, the capture of chromium-contaminated groundwater at the IWF and AWF, and treatment at the on-site GWTP, has removed approximately 2,900 pounds of chromium. Adding the approximately 200 pounds of chromium removed by the FBRs for the same period, a total of approximately 3,100 pounds of chromium was removed from the groundwater between July 2012 and June 2013.

For the same 12-month period, the capture of perchlorate-contaminated groundwater from all three well fields, and biological treatment in the on-site FBRs, has removed a total of approximately 633,000 pounds of perchlorate from the environment. This was an increase from 503,000 pounds of perchlorate removed during the 12-month period ending in June 2012, an increase of approximately 26 percent over the previous year.

During the current reporting period, groundwater elevations increased in areas adjacent to the barrier wall. Within the IWF itself, significant increases in perchlorate concentration were observed in November 2012 and again in April and May 2013. Overall, there were significant variations in perchlorate concentrations in the IWF during this period of performance. A number of factors are likely responsible for these observations, including the above average rainfall during the performance period (including a single large storm event on August 22, 2012) and the influence of subsurface alluvial channels. In addition, the excavation program completed during 2010 and 2011 altered historic infiltration pathways by creating on-site storm water infiltration basins which have likely resulted in mobilization of additional soil-bound perchlorate. The historically high perchlorate mass removal rates during this period of performance support this conclusion. Continued monitoring of Site groundwater will allow for evaluation of the

magnitude and duration of these impacts, the source(s) of the additional perchlorate mass, and what operational changes, if any, are required to enhance groundwater capture and treatment.

7 Proposed Future Activities

As part of the 2012 Annual Groundwater Monitoring report, an initial analysis of current groundwater capture was performed that recommended both adjusting extraction rates of individual wells and bringing idle extraction wells online to improve capture efficiency and maximize mass removal. Now that NDEP has approved the groundwater flow model, refinement of groundwater capture analysis will continue as part of 2013 GWETS Optimization Project.

The scope of work for the 2013 GWETS Optimization Project includes making operational adjustments to the extraction wells in the IWF and AWF including initiating extraction in seven currently idle wells in the IWF (I-W, I-X, I-Y, I-AA, I-AB, I-AC, and I-AD) and two wells in the AWF (ART-7B and PC-150). This work will include planning and permitting, well testing, construction related to connecting ART-7B and PC-150 to the GWETS, well startup, data evaluation and modeling, and reporting of results.

Specific analyses to be performed as part of the 2013 GWETS Optimization Project will be proposed in a separate Work Plan for submittal to NDEP. In general, however, well testing results will be used to update the NDEP-approved groundwater model and provide a better understanding of projected groundwater extraction rates at the IWF and AWF. The model will also be updated and refined to reflect system changes that have occurred since the model was developed. These changes include the 2010 shutdown of the recharge trench downgradient of the IWF, and changes in extraction and injection rates at the nearby OSSM and AMPAC systems. To accurately estimate the capture zones from individual wells in the IWF and AWF, the model grid will be refined and the calibration updated, as necessary. For the initial analysis of capture zones, the model will continue to be used in steady-state mode. After the initial capture zone analysis, ENVIRON anticipates that a transient model will be developed, as requested by NDEP, to evaluate the changes in capture zones over time resulting from time-varying pumping rates. ENVIRON also anticipates that refinements and calibration of the model will be needed to evaluate the SWF. However, the tasks of developing the transient model and updating the model in the vicinity of the SWF are anticipated to be performed as part of the RI/FS Work Plan for the Site and are therefore, not included in this 2013 GWETS Optimization Project.

Other proposed future activities include rehabilitation of extraction well PC-133, located in the SWF, and commencement of additional aspects of the scope of work outlined in the 2012 RI/FS Work Plan. ENVIRON is currently responding to comments from NDEP on the RI/FS Work Plan and is coordinating with the new GWETS operator, Envirogen, to rehabilitate PC-133.

Tables

TABLE 1: INTERCEPTOR WELL FIELD DISCHARGE RATES
Nevada Environmental Response Trust Site
Henderson, Nevada

WELL ID	July 2008- June 2009 (gpm)	July 2009 - June 2010 (gpm)	July 2010 - June 2011 (gpm)	July 2011 - June 2012 (gpm)	July 2012- June 2013 (gpm)	Well Screened In
I-AR	1.1	1.1	0.8	1.1	1.4	Qal/UMCf
I-B	1.6	2.3	2.5	1.5	1.6	Qal/UMCf
I-C	3.8	5.3	4.1	5.9	5.1	Qal/UMCf
I-D	1.4	3.1	4.2	1.3	1.7	Qal/UMCf
I-E	1.3	1.5	1.5	1.3	2.1	Qal/UMCf
I-F	6.2	6.3	4.1	5.7	4.4	Qal/UMCf
I-G	0.2	0.2	0.3	0.1	0.5	Qal/UMCf
I-H	0.8	0.9	0.9	0.9	1.0	Qal/UMCf
I-I	5.0	5.0	5.1	5.0	4.7	Qal/UMCf
I-J	8.3	7.4	7.3	6.3	6.0	Qal/UMCf
I-K	4.4	4.2	4.0	3.9	3.3	Qal/UMCf
I-L	2.0	1.6	1.5	1.9	1.9	Qal/UMCf
I-M	2.7	2.7	2.2	2.6	4.0	Qal/UMCf
I-N	3.6	3.7	3.7	3.1	2.7	Qal/UMCf
I-O	1.9	2.8	2.8	1.7	2.7	Qal/UMCf
I-P	2.9	3.8	3.4	2.1	3.7	Qal/UMCf
I-Q	0.3	0.4	0.6	0.3	0.2	Qal/UMCf
I-R	1.9	1.3	1.2	2.5	2.9	Qal/UMCf
I-S	4.0	5.9	6.1	5.2	4.0	Qal/UMCf
I-T	0.3	0.5	0.4	0.4	0.4	Qal/UMCf
I-U	0.9	0.9	0.8	0.7	0.8	Qal/UMCf
I-V	4.7	4.3	4.0	4.8	5.4	Qal/UMCf
I-Z	6.9	7.5	7.3	6.7	8.0	Qal/UMCf
TOTAL	66.3	72.8	68.9	65.1	68.6	

Notes:

gpm = gallons per minute

Qal = Quaternary Alluvium

UMCf = Upper Muddy Creek Formation (first fine-grained unit)

TABLE 2: ATHENS ROAD WELL FIELD DISCHARGE RATES
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID	July 2008- June 2009 (gpm)	July 2009 - June 2010 (gpm)	July 2010 - June 2011 (gpm)	July 2011 - June 2012 (gpm)	July 2012 - June 2013 (gpm)	Well Screened In
ART-1/1A	1.6	6.3	16.5	14.1	22.0	Qal
ART-2/2A	77.8	64.0	62.2	62.4	62.2	Qal
ART-3/3A	40.5	39.2	46.8	46.8	45.8	Qal
ART-4/4A	4.2	5.6	7.9	8.5	8.3	Qal
ART-7/7A	30.6	24.9	31.2	31.2	31.1	Qal
ART-8/8A	69.2	60.3	61.7	62.7	62.2	Qal
ART-9/ART-6 ¹	46.3	45.6	46.8	46.5e ²	49.1	Qal
TOTAL	270.3	245.9	273.1	272.2e	280.7	

Notes:

ART-1, 2, 3, 4, 7 and 8 have adjacent recovery wells - "Buddy Wells" - designated by the letter "A".

¹ Starting in September 2006, ART-9 replaced the pumping of ART-6/6A due to the low water levels in that well pair. The electrical and plumbing system from ART-6A was removed and is being used in ART-9.

² The flow meter for well ART-9 malfunctioned for several days in April and May 2012. For these days, an average flow rate for well ART-9 was used to calculate the annual average (from July 2011 to June 2012).

e = estimate

gpm = gallons per minute

Qal = Quaternary Alluvium

TABLE 3: SEEP WELL FIELD DISCHARGE RATES
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID	July 2008- June 2009 (gpm)	July 2009 - June 2010 (gpm)	July 2010 - June 2011 (gpm)	July 2011 - June 2012 (gpm)	July 2012 - June 2013 (gpm)	Well Screened In
PC-116R	184.7	183.6	132.4	124.8	124.5	Qal
PC-99R2/R3 ¹	112.4	89.8	63.9	61.6	54.4	Qal
PC-115R	85.2	70.3	82.8	91.4	95.7	Qal
PC-117	86.0	81.1	99.0	92.5	124.6	Qal
PC-118	59.2	71.0	70.7	76.3	93.3	Qal
PC-119	52.2	54.0	62.8	65.1	87.6	Qal
PC-120 ²	1.2	2.0	3.2	0.0	0.1	Qal
PC-121 ²	0.7	2.6	1.0	0.0	0.1	Qal
PC-133	7.0	6.2	5.0	3.1	4.3e	Qal
TOTAL	588.7	560.5	520.9	514.7	584.6e	

Notes:

¹ Wells PC-99R2 and PC-99R3 are connected and operate as a single pumping well.

² Wells PC-120 and PC-121 have not been continuously pumped since October 2005 due to their low perchlorate removal efficiencies and because they are located at the end of the well line in the shallowest portion of the subsurface alluvial channel.

gpm = gallons per minute

Qal = Quaternary Alluvium

e = estimate; due to a malfunctioning flow meter, the flow rate for this well was manually adjusted to calculate an average flow rate.

TABLE 4: MONTHLY WELL FIELD EXTRACTION RATES, JULY 2012 - JUNE 2013

Nevada Environmental Response Trust Site
Henderson, Nevada

Well	July 2012 (gpm)	August 2012 (gpm)	September 2012 (gpm)	October 2012 (gpm)	November 2012 (gpm)	December 2012 (gpm)	January 2013 (gpm)	February 2013 (gpm)	March 2013 (gpm)	April 2013 (gpm)	May 2013 (gpm)	June 2013 (gpm)
Interceptor Well Field (IWF)												
I-A-R	1.1	1.1	2.0	2.0	1.7	1.6	1.4	1.5	1.4	1.4	1.1	1.0
I-B	1.3	1.2	1.5	1.7	2.1	2.0	1.7	1.4	1.5	1.5	1.4	1.4
I-C	5.1	5.2	6.0	2.9	4.2	5.9	5.9	6.4	5.4	5.6	4.7	4.4
I-D	0.8	0.9	2.2	2.3	1.7	1.7	1.7	1.8	1.7	1.8	1.8	1.8
I-E	1.2	1.2	1.5	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.6	2.7
I-F	5.5	5.5	4.6	5.5	4.3	3.9	3.9	3.9	3.8	3.4	4.5	4.7
I-G	0.2	0.2	0.2	0.3	0.3	0.2	0.6	0.7	0.8	0.8	0.9	0.9
I-H	0.8	0.9	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
I-I	5.1	5.0	4.9	4.9	3.6	4.7	4.5	4.9	4.8	4.9	4.8	4.9
I-J	5.9	6.0	6.9	7.5	5.5	5.5	5.5	5.9	6.1	5.8	5.0	6.6
I-K	3.9	3.6	4.1	5.1	3.0	2.9	3.0	2.8	3.1	1.9	2.1	4.0
I-L	2.0	2.1	1.2	1.7	2.3	3.2	2.1	2.6	1.6	1.6	1.5	1.4
I-M	2.8	2.7	3.3	4.3	4.9	5.0	5.0	4.5	4.7	4.3	4.3	2.3
I-N	3.0	3.0	4.7	4.6	3.6	3.5	2.7	2.3	1.3	1.3	1.2	1.2
I-O	1.0	1.1	2.0	2.6	3.1	3.2	3.2	3.3	3.4	3.6	3.4	2.9
I-P	1.8	1.8	2.6	3.2	3.8	4.1	4.1	4.1	4.2	4.5	5.0	5.3
I-Q	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.2
I-R	2.8	2.8	3.2	3.8	3.3	3.3	3.2	2.5	2.3	2.4	2.3	2.4
I-S	5.0	5.2	7.6	4.0	2.5	2.9	2.8	3.1	3.2	4.4	3.7	3.8
I-T	0.4	0.4	0.5	0.6	0.6	0.6	0.6	0.4	0.2	0.2	0.1	0.1
I-U	0.5	0.4	0.7	0.9	1.0	1.0	1.1	1.1	1.3	1.5	0.4	0.2
I-V	5.3	5.4	5.4	5.2	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.5
I-Z	6.3	6.4	7.6	8.1	8.8	8.9	8.8	8.4	8.4	8.2	8.0	7.8
Total for IWF:	61.8	62.4	73.7	74.4	68.6	72.8	70.6	70.7	68.1	68.4	65.4	66.6
Athens Road Well Field (AWF)												
ART-1/1A	15.6	15.6	22.0	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
ART-2/2A	62.3	61.7	62.5	61.7	62.3	62.2	62.4	62.5	62.4	62.5	61.5	62.5
ART-3/3A	46.7	41.7	46.9	40.8	46.7	46.7	46.8	46.9	46.8	46.9	46.2	46.9
ART-4/4A	7.8	8.0	8.6	9.3	9.3	8.6	8.0	8.0	7.9	7.9	7.9	8.0
ART-7/7A	31.1	30.9	31.2	30.8	31.1	31.1	31.2	31.3	31.2	31.3	30.7	31.2
ART-8/8A	62.3	68.5	62.5	63.1	62.3	62.2	62.4	62.5	62.4	62.5	54.3	61.7
ART-9/ART-6	45.7	45.9	47.1	49.6	55.7	56.1	53.8	48.3	46.8	46.9	46.1	46.9
Total for AWF:	271.5	272.2	280.7	278.7	290.9	290.3	288.1	282.8	280.8	281.2	270.2	280.6
Seep Well Field (SWF)												
PC-116R	124.2	124.2	123.6	124.7	125.0	124.9	124.9	124.9	124.2	124.9	123.7	124.8
PC-99R2/R3	56.2	54.4	56.8	56.9	56.5	56.3	55.9	55.3	54.4	56.0	55.9	38.3
PC-115R	95.8	94.2	108.4	104.9	99.2	93.3	91.6	90.5	89.7	90.4	93.5	96.9
PC-117	124.4	124.3	123.8	124.8	125.0	124.9	124.9	125.0	124.4	124.9	123.8	124.8
PC-118	93.3	93.2	92.8	93.6	93.8	93.7	93.7	93.7	91.2	93.7	92.8	93.6
PC-119	92.2	84.0	92.7	93.4	93.3	93.1	93.0	93.0	89.5	76.8	74.8	75.6
PC-120 ¹	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.0	0.0	0.0
PC-121 ¹	0.0	0.1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
PC-133	4.4e	4.4e	4.4e	4.5e	4.4e	4.2e	4.2	4.7	4.2	4.2	4.2	4.3
Total for SWF:	590.4	578.8	602.4	602.8	597.2	590.5	589.6	587.1	578.8	570.9	568.8	558.3

Notes:

¹ Wells PC-120 and PC-121 have not been continuously pumped since October 2005 due to their low perchlorate removal efficiencies and because they are located at the end of the well line in the shallowest portion of the subsurface alluvial channel.

gpm = gallons per minute

e = estimate; due to a malfunctioning flow meter, the flow rate for this well was manually adjusted to calculate an average flow rate.

TABLE 5: CHROMIUM TREATMENT DATA FOR GWTP, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Month	Average Flow to GWTP (gpm)	Average Flow to GWTP (MM Gals)	Average Total Cr Inflow ¹ (mg/L)	Average Total Cr Outflow ² (mg/L)	Average Cr VI Outflow ² (mg/L)	Average Total Cr Removed (lbs/day)	Total Cr Removed (lbs/month)
July 2012	61.8	2.76	10.0	0.161	0.004	7.43	230
August 2012	62.4	2.79	10.1	0.098	0.005	7.56	234
September 2012	73.7	3.18	8.7	0.120	0.004	7.70	231
October 2012	74.4	3.32	10.5	0.161	0.010	9.36	290
November 2012	68.6	2.96	10.3	0.192	0.030	8.44	253
December 2012	72.8	3.25	9.7	0.123	0.004	8.44	262
January 2013	70.6	3.15	9.9	0.125	0.005	8.38	260
February 2013	70.7	2.85	10.1	0.095	0.004	8.55	239
March 2013	68.1	3.04	9.9	0.080	0.004	8.09	251
April 2013	68.4	2.96	9.1	0.093	0.000	7.51	225
May 2013	65.4	2.92	9.8	0.125	0.000	7.73	240
June 2013	66.6	2.88	9.4	0.348	0.145	7.43	223

Approximate Chromium Removed by GTWP: 2,900

Approximate Chromium Removed by FBRs: 200

Approximate Total Chromium Removed: 3,100

Notes:

¹ Hexavalent chromium is used as a proxy for total chromium in inflow calculations.

² Treated Outflow is directed to Bioplant Equalization Area and Carbon Treatment before being fed to the Fluidized Bed Reactors (FBRs).

Cr = chromium

Cr VI = hexavalent chromium

FBR = fluidized bed reactor

GWTP = groundwater treatment plant

gpm = gallons per minute

lbs = pounds

mg/L = milligrams per liter

MM gals = million gallons

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL ¹ (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL ¹ (mg/L)
7/2/2012	INFLUENT	0.049	0.00044	0.046	0.000045
7/2/2012	EFFLUENT	0.0063 J	0.00044	<0.000009	0.000009
7/9/2012	INFLUENT	0.056	0.00044	0.05	0.000045
7/9/2012	INFLUENT	0.08	0.000088	0.05	0.000045
7/9/2012	EFFLUENT	0.0077 J	0.00044	<0.000009	0.000009
7/9/2012	EFFLUENT	0.0084	0.000088	<0.000009	0.000009
7/16/2012	INFLUENT	0.045	0.00044	0.046	0.000045
7/16/2012	EFFLUENT	0.0069 J	0.00044	<0.000009	0.000009
7/23/2012	INFLUENT	0.029	0.00044	0.025	0.000045
7/23/2012	EFFLUENT	0.0043 J	0.00044	<0.000009	0.000009
7/30/2012	INFLUENT	0.056	0.00044	0.052	0.000045
7/30/2012	EFFLUENT	0.0062 J	0.00044	0.000057	0.000009
8/6/2012	INFLUENT	0.052	0.00044	0.049	0.000045
8/6/2012	EFFLUENT	0.0080 J	0.00044	<0.000009	0.000009
8/13/2012	INFLUENT	0.054	0.00044	0.051	0.000045
8/13/2012	EFFLUENT	0.0074 J	0.00044	0.000021	0.000009
8/20/2012	INFLUENT	0.059	0.00044	0.053	0.000225
8/20/2012	EFFLUENT	0.0062 J	0.00044	0.000072	0.000009
8/27/2012	INFLUENT	0.050	0.00044	0.047	0.000045
8/27/2012	EFFLUENT	0.0084 J	0.00044	0.000071	0.000009
9/4/2012	INFLUENT	0.0081 J	0.00044	0.0054	0.000045
9/4/2012	EFFLUENT	0.012	0.00044	0.00023	0.000009
9/10/2012	INFLUENT	0.077	0.00044	0.074	0.000045
9/10/2012	EFFLUENT	0.0090 J	0.00044	0.000079	0.000009
9/17/2012	INFLUENT	0.0034 J	0.00044	0.016	0.000045
9/17/2012	EFFLUENT	0.0068 J	0.00044	0.000049	0.000009
9/24/2012	INFLUENT	0.061	0.00044	0.06	0.000045
9/24/2012	EFFLUENT	0.0089 J	0.00044	<0.000009	0.000009
10/1/2012	INFLUENT	0.090	0.00044	0.077	0.00009
10/1/2012	EFFLUENT	0.0095 J	0.00044	<0.000009	0.000009
10/8/2012	INFLUENT	0.053	0.00044	0.044	0.000045
10/8/2012	INFLUENT	0.052	0.000088	0.044	0.000045
10/8/2012	EFFLUENT	0.011	0.00044	0.000052	0.000009
10/8/2012	EFFLUENT	0.013	0.000088	0.000052	0.000009
10/15/2012	INFLUENT	0.014	0.00044	0.01	0.000045
10/15/2012	EFFLUENT	0.0078 J	0.00044	<0.000009	0.000009
10/22/2012	INFLUENT	0.12	0.00044	0.1	0.00009
10/22/2012	EFFLUENT	0.011 J	0.00088	<0.000009	0.000009
10/29/2012	INFLUENT	0.067	0.00088	0.064	0.000045
10/29/2012	EFFLUENT	0.010	0.00044	<0.000009	0.000009
11/5/2012	INFLUENT	0.090	0.00088	0.086	0.000045
11/5/2012	EFFLUENT	0.0069 J	0.00088	<0.000009	0.000009
11/12/2012	INFLUENT	0.34	0.00088	0.34	0.000225
11/12/2012	EFFLUENT	0.013 J	0.00088	0.00025	0.000009
11/19/2012	INFLUENT	0.054	0.00088	0.049	0.000045
11/19/2012	EFFLUENT	0.0043 J	0.00088	<0.000009	0.000009

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL ¹ (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL ¹ (mg/L)
11/26/2012	INFLUENT	0.066	0.00044	0.062	0.000045
11/26/2012	EFFLUENT	0.0091 J	0.00088	0.000096	0.000009
12/3/2012	INFLUENT	0.091	0.00088	0.082	0.000045
12/3/2012	EFFLUENT	0.0098 J	0.00088	0.000045	0.000009
12/10/2012	INFLUENT	0.080	0.00088	0.078	0.000045
12/10/2012	EFFLUENT	0.017 J	0.00088	<0.000009	0.000009
12/17/2012	INFLUENT	0.097	0.00088	0.089	0.000045
12/17/2012	EFFLUENT	0.013 J	0.00088	0.000047	0.000009
12/26/2012	INFLUENT	0.080	0.00088	0.071	0.000045
12/26/2012	EFFLUENT	0.015 J	0.00088	<0.000009	0.000009
1/2/2013	INFLUENT	0.099	0.00088	0.093	0.000045
1/2/2013	EFFLUENT	0.012 J	0.00088	0.000031	0.000009
1/7/2013	INFLUENT	0.063	0.00088	0.06	0.000045
1/7/2013	EFFLUENT	0.012 J	0.00088	0.00004	0.000009
1/23/2013	INFLUENT	0.061	0.00088	0.059	0.000045
1/23/2013	INFLUENT	0.055	0.00088	0.059	0.000045
1/23/2013	EFFLUENT	0.0090 J	0.00088	0.000029	0.000009
1/23/2013	EFFLUENT	0.011	0.000088	0.000029	0.000009
1/28/2013	INFLUENT	0.094	0.00088	0.089	0.000045
1/28/2013	EFFLUENT	0.011 J	0.00088	0.00005	0.000009
2/4/2013	INFLUENT	0.023	0.00088	0.022	0.000045
2/4/2013	EFFLUENT	0.011 J	0.00088	0.000022	0.000009
2/11/2013	INFLUENT	0.049	0.00088	0.049	0.000045
2/11/2013	EFFLUENT	0.016 J	0.00088	<0.000009	0.000009
2/18/2013	INFLUENT	0.065	0.00088	0.062	0.000045
2/18/2013	EFFLUENT	0.013 J	0.00088	<0.000009	0.000009
2/25/2013	INFLUENT	0.066	0.00088	0.066	0.000045
2/25/2013	EFFLUENT	0.014 J	0.00088	0.000038	0.000009
3/4/2013	INFLUENT	0.062	0.00088	0.064	0.000045
3/4/2013	EFFLUENT	0.011 J	0.00088	0.00008	0.000009
3/11/2013	INFLUENT	0.042	0.00088	0.043	0.000045
3/11/2013	EFFLUENT	0.012 J	0.00088	0.000052	0.000009
3/18/2013	INFLUENT	0.0052 J	0.00088	0.0041	0.000045
3/18/2013	EFFLUENT	0.0070 J	0.00088	0.00002	0.000009
3/25/2013	INFLUENT	0.0066 J	0.00088	0.0043	0.000045
3/25/2013	EFFLUENT	0.0099 J	0.00088	0.000014 J	0.000009
4/1/2013	INFLUENT	0.031	0.002	0.037	0.00025
4/1/2013	EFFLUENT	0.0020 J	0.002	<0.00025 H	0.00025
4/8/2013	INFLUENT	0.079	0.002	0.075	0.00025
4/8/2013	INFLUENT	0.08	0.002	0.075	0.00025
4/8/2013	EFFLUENT	0.027	0.002	<0.00025 H	0.00025
4/8/2013	EFFLUENT	0.026	0.002	<0.00025 H	0.00025
4/16/2013	INFLUENT	0.072 B	0.002	0.078	0.00025
4/16/2013	EFFLUENT	0.011 B	0.002	<0.00025 H	0.00025
4/22/2013	INFLUENT	0.11	0.002	0.12	0.0025
4/22/2013	EFFLUENT	0.012	0.002	<0.00025	0.00025

TABLE 6: WEEKLY CHROMIUM IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/ Effluent	Total Chromium EPA 200.7 (mg/L)	Total Chromium SQL ¹ (mg/L)	Hexavalent Chromium EPA 218.6 (mg/L)	Hexavalent Chromium SQL ¹ (mg/L)
4/30/2013	INFLUENT	0.014	0.002	NA	NA
4/30/2013	EFFLUENT	0.0087	0.002	<0.00025	0.00025
5/2/2013	INFLUENT	NA	NA	0.006	0.00025
5/7/2013	INFLUENT	0.0031 J	0.002	0.0029	0.00025
5/7/2013	EFFLUENT	0.0096	0.002	<0.00025	0.00025
5/13/2013	INFLUENT	0.017	0.002	0.015	0.00025
5/13/2013	EFFLUENT	0.0062	0.002	<0.00025	0.00025
5/22/2013	INFLUENT	0.048	0.002	0.018	0.00025
5/22/2013	EFFLUENT	0.0078	0.002	<0.00025	0.00025
5/29/2013	INFLUENT	0.037	0.002	0.0063	0.00025
5/29/2013	EFFLUENT	0.0064	0.002	<0.00025	0.00025
6/3/2013	INFLUENT	0.029	0.002	0.018	0.00025
6/3/2013	EFFLUENT	0.0064	0.002	<0.00025	0.00025
6/10/2013	INFLUENT	0.024	0.002	0.022	0.00025
6/10/2013	EFFLUENT	0.0099	0.002	<0.00025	0.00025
6/18/2013	INFLUENT	0.023	0.002	0.019	0.00025
6/18/2013	EFFLUENT	0.0069	0.002	<0.00025	0.00025
6/24/2013	INFLUENT	0.068	0.002	0.052	0.00025
6/24/2013	EFFLUENT	0.0044 J	0.002	<0.00025	0.00025

Notes:

¹ The Site began using a new analytical laboratory on April 1st 2013, which resulted in a change in the SQL.

B = Compound was found in the blank and sample.

FBR = Fluidized Bed Reactor

H = Sample was prepped or analyzed beyond the specified holding time

J = Estimated Concentration

NA = Not analyzed

mg/L = milligrams per liter

SQL = Sample Quantitation Limit

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT

Nevada Environmental Response Trust Site

Henderson, Nevada

Date	Seep Wells and Seep (lbs/day)	Athens Road Well Field (lbs/day)	Interceptor Well Field (lbs/day)	Total (lbs/day)	Total Tons Removed (per month)
OCT 2002 ¹	495	331	1,402	2,228	34.5
NOV 2002	422	1,001	1,146	2,569	38.5
DEC 2002	208	1,164	1,292	2,664	41.3
JAN 2003	408	1,077	1,467	2,952	45.7
FEB 2003	482	785	1,060	2,327	32.6
MAR 2003 ²	576	806	1,067	2,449	38.0
APR 2003	664	708	1,033	2,405	36.1
MAY 2003	640	728	1,148	2,517	39.0
JUN 2003	628	909	1,098	2,634	39.5
JUL 2003	550	764	1,034	2,348	36.4
AUG 2003	431e	742	999	2,172e	33.7e
SEP 2003	415	769	937	2,121	31.8
OCT 2003	370	767	1,003	2,140	33.2
NOV 2003	337	714	949	2,000	30.0
DEC 2003	318	734	932	1,984	30.8
JAN 2004	306	690	938	1,934	30.0
FEB 2004	322	652	881	1,856	26.9
MAR 2004	221	742	917	1,879	29.1
APR 2004	151	735	854	1,740	26.1
MAY 2004	122	741	890	1,753	27.2
JUN 2004	157	753	978	1,888	28.3
JUL 2004	195	758	985	1,938	30.0
AUG 2004	201	803	941	1,945	30.2
SEP 2004	169	835	970	1,973	29.6
OCT 2004	262	799	1,038	2,099	32.5
NOV 2004	168	814	1,016	1,997	30.0
DEC 2004	122	811	917	1,850	28.7
JAN 2005	142	776	993	1,910	29.6
FEB 2005	139e	762e	942	1,843e	25.8e
MAR 2005	158	781	964	1,902	29.5
APR 2005	145	787	971	1,904	28.6
MAY 2005	152	756	966	1,875	29.1
JUN 2005 ³	151	792	970	1,913	28.7
JUL 2005	154	769	1,060	1,983	30.7
AUG 2005	135	800	1,092	2,028	31.4
SEP 2005	85	806	1,122	2,013	30.2
OCT 2005	99	797	1,060	1,957	30.3
NOV 2005	111	773	1,072	1,956	29.3
DEC 2005	121	726	1,123	1,971	30.5
JAN 2006	141	750	984	1,875	29.1
FEB 2006	120	778	978	1,876	26.3
MAR 2006	107	736	967	1,810	28.1
APR 2006	129	755	1,011	1,895	28.4
MAY 2006	131	713	945	1,789	27.7
JUN 2006	135	753	874	1,762	26.4
JUL 2006	123	647	920	1,690	26.2
AUG 2006	141	652	918	1,710	26.5
SEP 2006 ⁴	142	762	1,045	1,949	29.2

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT

Nevada Environmental Response Trust Site
Henderson, Nevada

Date	Seep Wells and Seep (lbs/day)	Athens Road Well Field (lbs/day)	Interceptor Well Field (lbs/day)	Total (lbs/day)	Total Tons Removed (per month)
OCT 2006	134	778	1,018	1,930	29.9
NOV 2006	101	714	867	1,682	25.2
DEC 2006	121	745	870	1,736	26.9
JAN 2007	100	786	948	1,833	28.4
FEB 2007	89	736	871	1,695	23.7
MAR 2007	88	689	915	1,693	26.2
APR 2007	89	689	896	1,675	25.1
MAY 2007	102	699	890	1,690	26.2
JUN 2007	91	642	832	1,565	23.5
JUL 2007	67	659	912	1,638	25.4
AUG 2007	55	632	840	1,527	23.7
SEP 2007	53	631	842	1,526	22.9
OCT 2007	53	686	841	1,580	24.5
NOV 2007	55	682	762	1,500	22.5
DEC 2007	59	664	742	1,465	22.7
JAN 2008	58	633	873	1,565	24.3
FEB 2008	63	656	861	1,580	22.9
MAR 2008	60	666	865	1,591	24.7
APR 2008	54	656	851	1,561	23.4
MAY 2008	46	627	721	1,394	21.6
JUN 2008	44	637	732	1,413	21.2
JUL 2008	54	673	817	1,544	23.9
AUG 2008	59	691	945	1,695	26.3
SEP 2008	56	639	798	1,493	22.4
OCT 2008	51	626	801	1,477	22.9
NOV 2008	48	643	807	1,497	22.5
DEC 2008	58	678	809	1,544	23.9
JAN 2009	44	659	864	1,567	24.3
FEB 2009	32	622	796	1,450	20.3
MAR 2009	36	723	865	1,624	25.2
APR 2009	32	685	833	1,550	23.2
MAY 2009	35	655	835	1,525	23.6
JUN 2009	36	611	866	1,512	22.7
JUL 2009	40	571e	833	1,444e	22.4e
AUG 2009	43	652	859	1,554	24.1
SEP 2009	48	671	938	1,657	24.9
OCT 2009	44	625	847	1,516	23.5
NOV 2009	47	613	894	1,554	23.3
DEC 2009	49	635	891	1,575	24.4
JAN 2010	55	661	912	1,629e	25.2e
FEB 2010	53	675	853	1,581e	22.1e
MAR 2010	49	629	949	1,626e	25.2e
APR 2010	50	630	926	1,607	24.1
MAY 2010	53	758	983	1,794	27.8
JUN 2010	53	733	942	1,728	25.9
JUL 2010	46	652	838	1,535	23.8
AUG 2010	44	658	846	1,548	24.0
SEP 2010	42	728	833	1,602	24.0

TABLE 7: PERCHLORATE REMOVED FROM THE ENVIRONMENT

Nevada Environmental Response Trust Site
Henderson, Nevada

Date	Seep Wells and Seep (lbs/day)	Athens Road Well Field (lbs/day)	Interceptor Well Field (lbs/day)	Total (lbs/day)	Total Tons Removed (per month)
OCT 2010	50	634	794	1,478	22.9
NOV 2010	50	635	761	1,446	21.7
DEC 2010	42	636	690	1,368	21.2
JAN 2011	32	598	735	1,364	21.1
FEB 2011	40	588	709	1,336	18.7
MAR 2011	43	634	733	1,410	21.8
APR 2011	48	616	791	1,455	21.8
MAY 2011	57	632	734	1,423	22.1
JUN 2011	46	639	754	1,438	21.6
JULY 2011	41	646	756	1,443	22.4
AUG 2011	39	630	768	1,438	22.3
SEP 2011	41	619	751	1,410	21.2
OCT 2011	41	585	691	1,317	20.4
NOV 2011	41	570	696	1,307	19.6
DEC 2011	38	567	659	1,263	19.6
JAN 2012	41	606	694	1,341	20.8
FEB 2012	44	669	726	1,439	20.9
MAR 2012	46	623	720	1,389	21.5
APR 2012	44e	607e	686	1,337e	20.0e
MAY 2012	47e	665e	687	1,399e	21.7e
JUN 2012	48e	641	541	1,229e	18.4e
JULY 2012	52e	635	661	1,348e	20.9e
AUG 2012	48e	601	655	1,304e	20.2e
SEP 2012	61e	626	1,042	1,728e	25.9e
OCT 2012	65e	621	1,294	1,980e	30.7e
NOV 2012	63e	609	1,145	1,817e	27.2e
DEC 2012	58e	619	1,301	1,978e	30.7e
JAN 2013	58	642	1,292	1,992	30.9
FEB 2013	52	615	1,194	1,862	26.1
MAR 2013	51	610	1,070	1,732	26.8
APR 2013	63	629	1,141	1,833	27.5
MAY 2013	62	639	1,086	1,787	27.7
JUN 2013	47	544	886	1,477	22.2

Notes:

- ¹ Athens Rd recovery wells began full time operation on 10/22/02.
² Five new Seep Area recovery wells began operation on 3/24/03.
³ One new Seep Area recovery well began operation on 6/21/05.
⁴ One new Athens Rd recovery well began full time operation on 9/8/06.

lbs/day = pounds per day

e = estimate; due to malfunctioning flow meters, the flow rate for one or more wells in the well field was manually adjusted in the spreadsheet to calculate an average flow rate. The adjusted flow rate was used to calculate the perchlorate mass removal.

In some cases, the monthly perchlorate mass removal numbers in this table differ slightly from those presented in previous reports due to minor corrections made in the historical calculations. These adjustments did not substantively affect the mass removal numbers.

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate EPA 314 (mg/L)	Perchlorate SQL ¹ (mg/L)
7/7/2012	INFLUENT	100	1.27
7/7/2012	INFLUENT	98	1.27
7/7/2012	EFFLUENT	0.22	0.00127
7/7/2012	EFFLUENT	0.22	0.00127
7/14/2012	INFLUENT	110	1.27
7/14/2012	EFFLUENT	<0.000508	0.000508
7/21/2012	INFLUENT	120	1.27
7/21/2012	EFFLUENT	<0.00127	0.00127
7/28/2012	INFLUENT	100	1.27
7/28/2012	EFFLUENT	<0.000508	0.000508
8/4/2012	INFLUENT	100	1.27
8/4/2012	EFFLUENT	<0.000508	0.000508
8/11/2012	INFLUENT	100	1.27
8/11/2012	EFFLUENT	<0.000508	0.000508
8/18/2012	INFLUENT	100	1.27
8/18/2012	EFFLUENT	<0.000508	0.000508
8/25/2012	INFLUENT	100	1.27
8/25/2012	EFFLUENT	<0.000508	0.000508
9/1/2012	INFLUENT	100	1.27
9/1/2012	EFFLUENT	<0.000508	0.000508
9/8/2012	INFLUENT	98	1.27
9/8/2012	EFFLUENT	<0.000508	0.000508
9/15/2012	INFLUENT	130	1.27
9/15/2012	EFFLUENT	<0.000508	0.000508
9/22/2012	INFLUENT	110	1.27
9/22/2012	EFFLUENT	<0.000508	0.000508
9/29/2012	INFLUENT	150	2.54
9/29/2012	EFFLUENT	<0.000508	0.000508
10/6/2012	INFLUENT	150	1.27
10/6/2012	EFFLUENT	<0.000508	0.000508
10/13/2012	INFLUENT	150	1.27
10/13/2012	EFFLUENT	<0.000508	0.000508
10/20/2012	INFLUENT	150	1.27
10/20/2012	EFFLUENT	0.002 J	0.000508
10/27/2012	INFLUENT	150	1.27
10/27/2012	EFFLUENT	<0.000508	0.000508
11/3/2012	INFLUENT	150	1.27
11/3/2012	EFFLUENT	<0.000508	0.000508
11/10/2012	INFLUENT	140	1.27
11/10/2012	EFFLUENT	0.0038 J	0.00127
11/17/2012	INFLUENT	160	1.27
11/17/2012	EFFLUENT	<0.000508	0.000508
11/24/2012	INFLUENT	150	1.27
11/24/2012	EFFLUENT	<0.000508	0.000508
12/1/2012	INFLUENT	170	1.27
12/1/2012	EFFLUENT	<0.00127	0.00127
12/8/2012	INFLUENT	170	1.27

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate EPA 314 (mg/L)	Perchlorate SQL ¹ (mg/L)
12/8/2012	EFFLUENT	<0.000508	0.000508
12/15/2012	INFLUENT	170	1.27
12/15/2012	EFFLUENT	<0.000508	0.000508
12/22/2012	INFLUENT	170	1.27
12/22/2012	EFFLUENT	<0.000508	0.000508
1/5/2013	INFLUENT	140	1.27
1/5/2013	EFFLUENT	<0.00127	0.00127
1/12/2013	INFLUENT	160	1.27
1/12/2013	EFFLUENT	<0.00127	0.00127
1/19/2013	INFLUENT	160	1.27
1/19/2013	EFFLUENT	<0.000508	0.000508
1/26/2013	INFLUENT	160	1.27
1/26/2013	EFFLUENT	<0.000508	0.000508
2/2/2013	INFLUENT	140	1.27
2/2/2013	EFFLUENT	<0.000508	0.000508
2/9/2013	INFLUENT	160	1.27
2/9/2013	EFFLUENT	<0.000508	0.000508
2/16/2013	INFLUENT	150	1.27
2/16/2013	EFFLUENT	<0.000508	0.000508
2/23/2013	INFLUENT	150	1.27
2/23/2013	EFFLUENT	<0.000508	0.000508
3/2/2013	INFLUENT	140	1.27
3/2/2013	EFFLUENT	<0.000508	0.000508
3/9/2013	INFLUENT	140	1.2
3/9/2013	EFFLUENT	<0.0005	0.0005
3/16/2013	INFLUENT	140	1.2
3/16/2013	EFFLUENT	<0.0005	0.0005
3/23/2013	INFLUENT	140	1.2
3/23/2013	EFFLUENT	<0.0005	0.0005
4/1/2013	INFLUENT	130	9.5
4/1/2013	EFFLUENT	<0.0048	0.0048
4/6/2013	INFLUENT	140	19
4/6/2013	EFFLUENT	<0.0048	0.0048
4/13/2013	INFLUENT	160	9.5
4/13/2013	EFFLUENT	<0.0048	0.0048
4/20/2013	INFLUENT	200	19
4/20/2013	EFFLUENT	<0.0048	0.0048
4/27/2013	INFLUENT	130	1.9
4/27/2013	EFFLUENT	<0.0048	0.0048
5/4/2013	INFLUENT	140	4.8
5/4/2013	EFFLUENT	<0.0048	0.0048
5/11/2013	INFLUENT	140	9.5
5/11/2013	EFFLUENT	0.021	0.0048
5/18/2013	INFLUENT	120	9.5
5/18/2013	EFFLUENT	<0.0048	0.0048
5/25/2013	INFLUENT	100	9.5
5/25/2013	EFFLUENT	<0.0048	0.0048

TABLE 8: WEEKLY PERCHLORATE IN FBR INFLUENT AND EFFLUENT, JULY 2012 - JUNE 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Sample Date	Influent/Effluent Weekly Composite	Perchlorate EPA 314 (mg/L)	Perchlorate SQL ¹ (mg/L)
6/1/2013	INFLUENT	120	4.8
6/1/2013	EFFLUENT	<0.0048	0.0048
6/8/2013	INFLUENT	120	9.5
6/8/2013	EFFLUENT	0.0063	0.0048
6/15/2013	INFLUENT	120	9.5
6/15/2013	EFFLUENT	<0.0048	0.0048
6/22/2013	INFLUENT	110	9.5
6/22/2013	EFFLUENT	<0.0048	0.0048
6/29/2013	INFLUENT	110	9.5
6/29/2013	EFFLUENT	<0.0048	0.0048

Notes:

¹ The Site began using a new analytical laboratory on April 1st 2013, which resulted in a change in the SQL.

FBR = Fluidized Bed Reactor

J = Estimated Concentration

mg/L = milligrams per liter

SQL = Sample Quantitation Limit

Figures

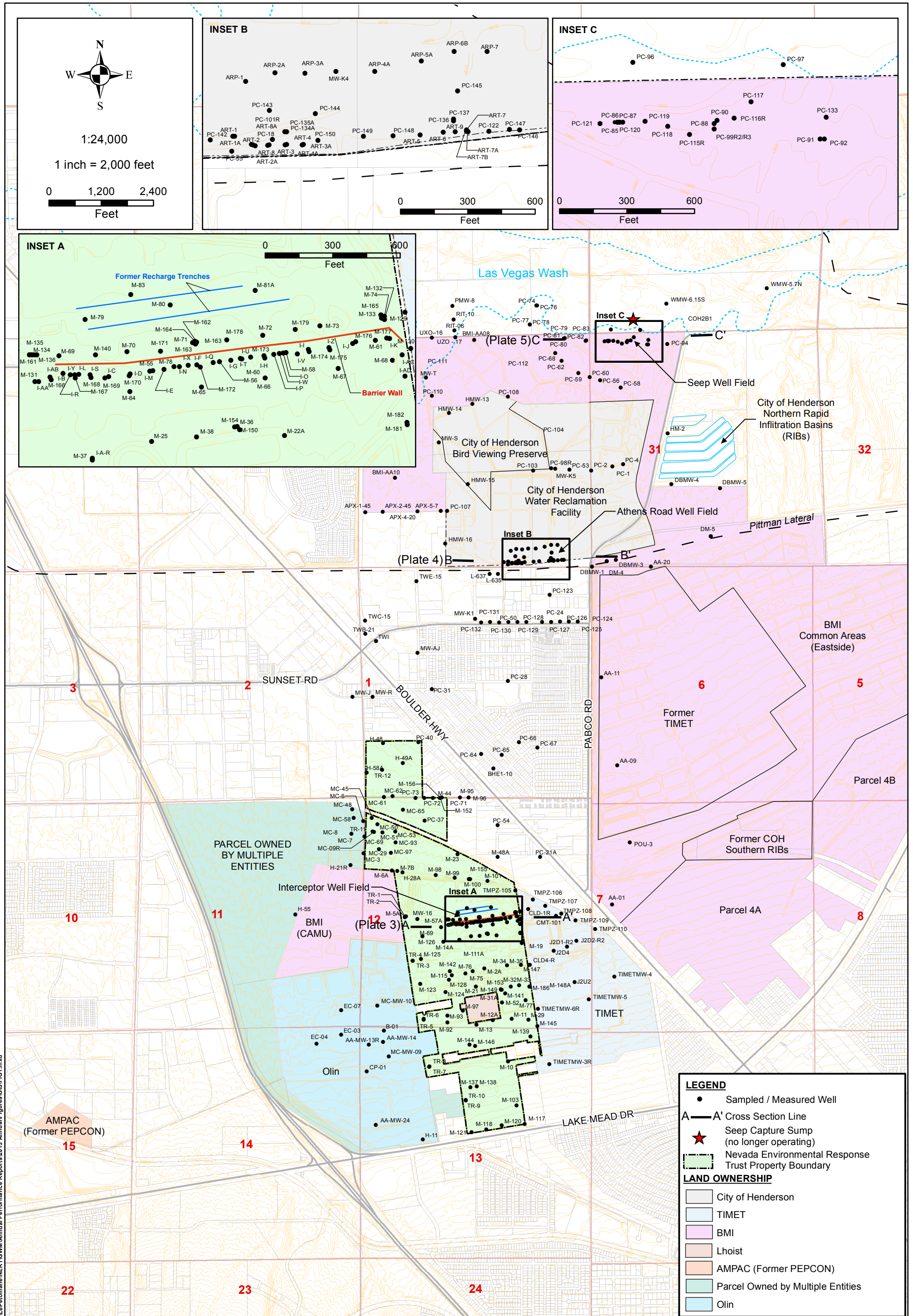


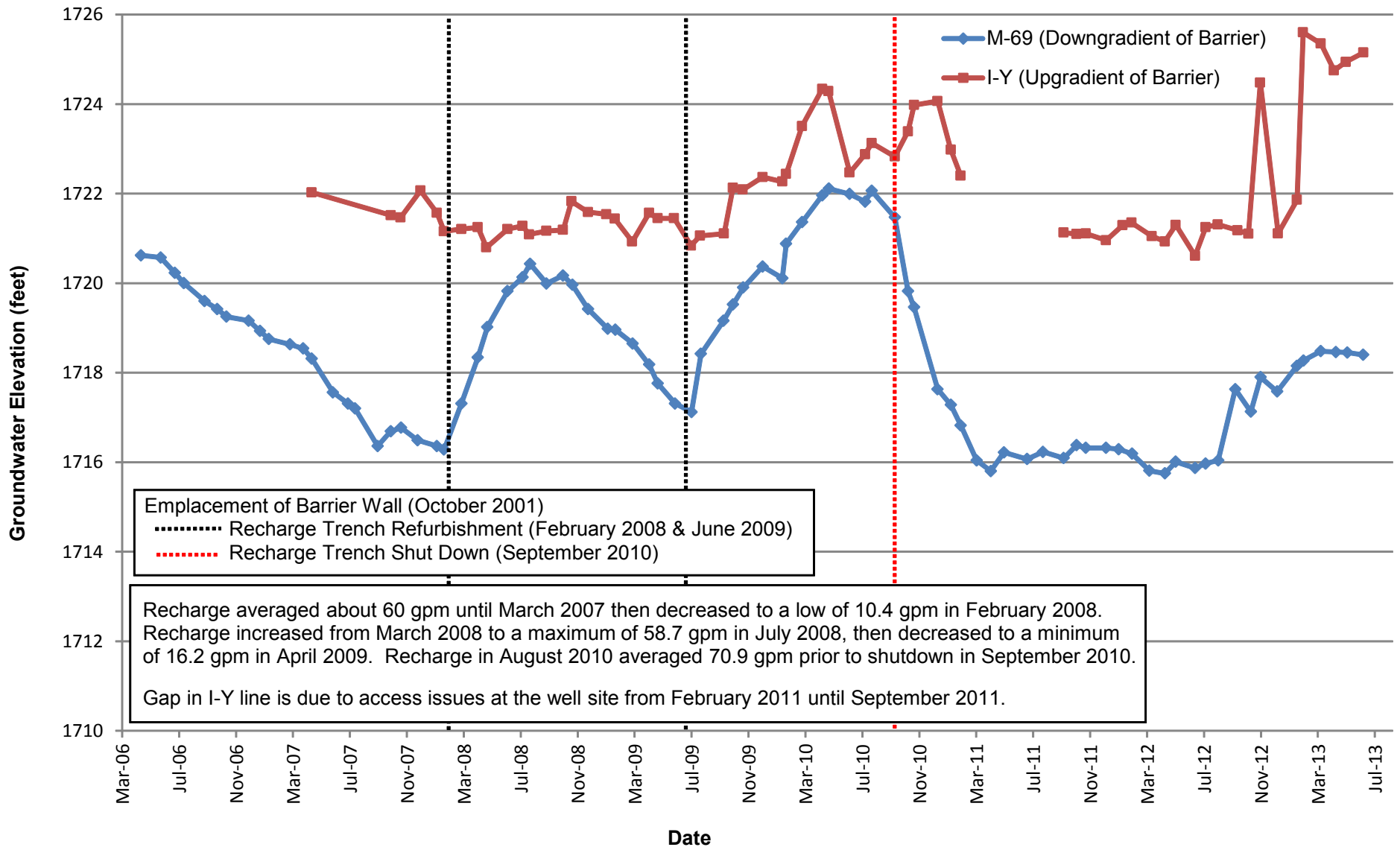
Figure 1

WELL LOCATION MAP
 Annual Performance Report
 Nevada Environmental Response Trust Site (NERT)
 Henderson, Nevada

DESIGNED BY:		REVISIONS		DATE:	BY:
EJK	No.	DESCRIPTION:		8/27/2013	RS
DRAWN BY:	0	GENERATE APPROVED MAP			
CHEKED BY:					
APPROVED BY:					
CJR/EJK					



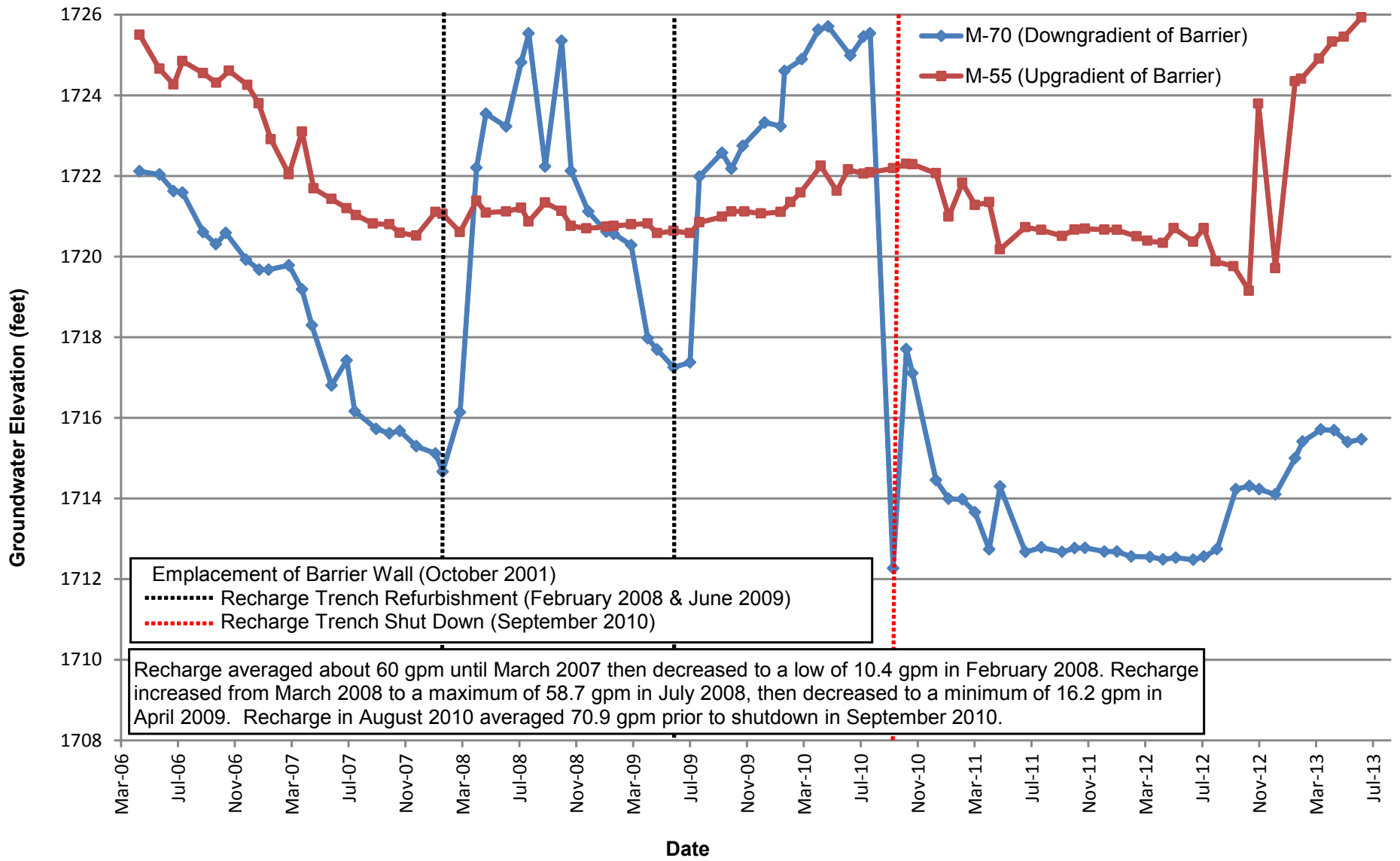
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Hydrograph Pair Across the Barrier Wall - M-69 and I-Y
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

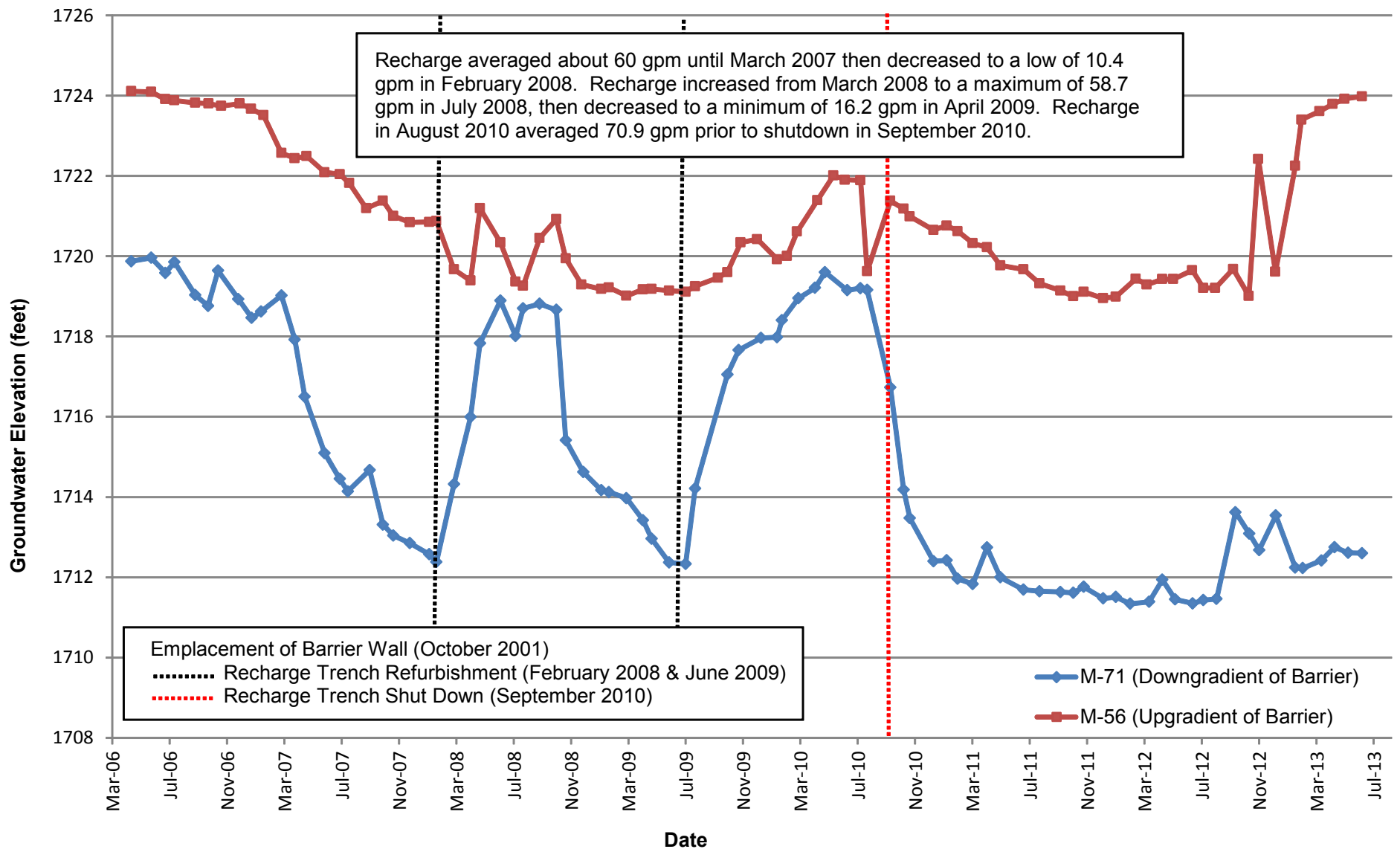
Figure

2a



Hydrograph Pair Across the Barrier Wall - M-70 and M-55
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

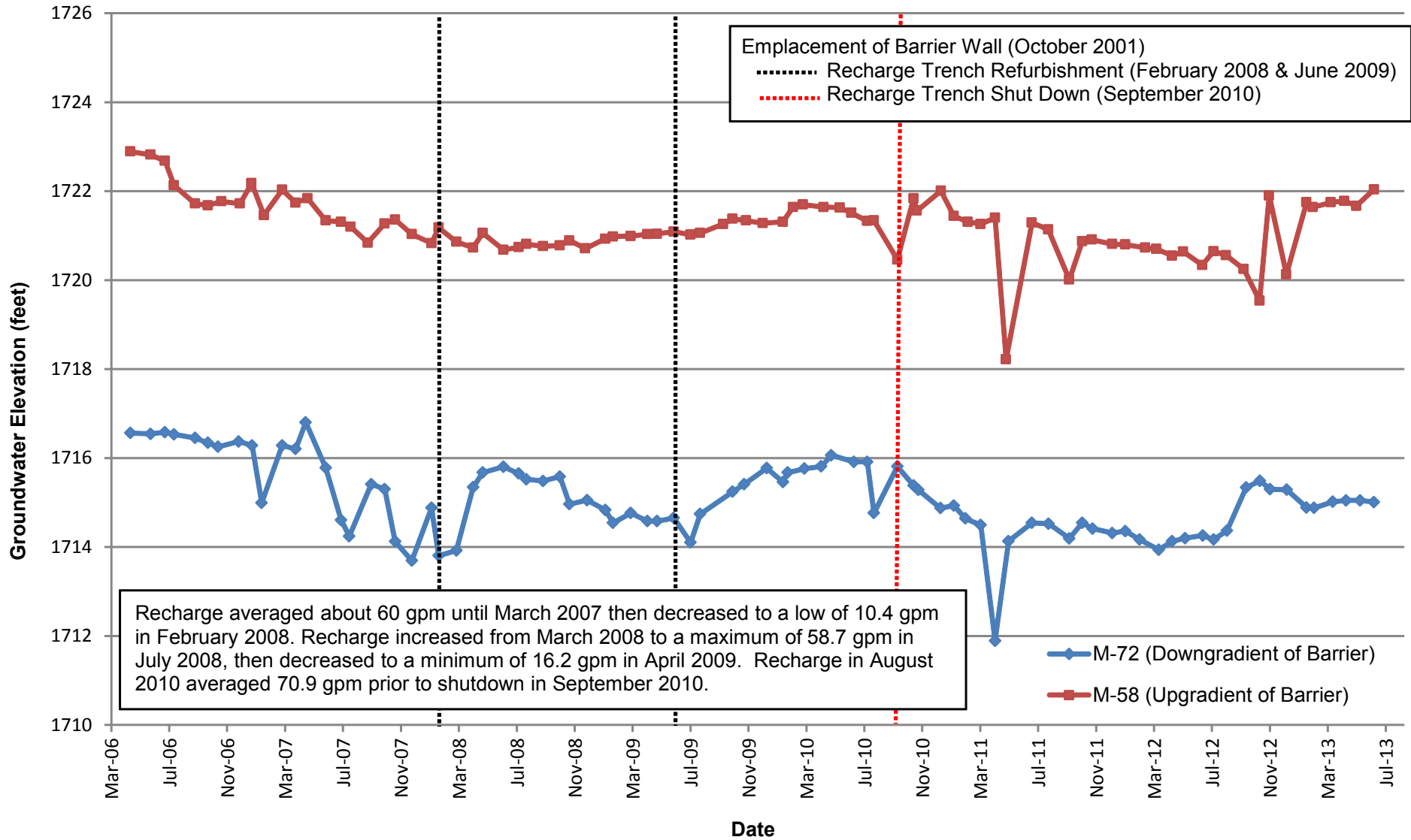
Figure
2b



Hydrograph Pair Across the Barrier Wall - M-71 and M-56
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

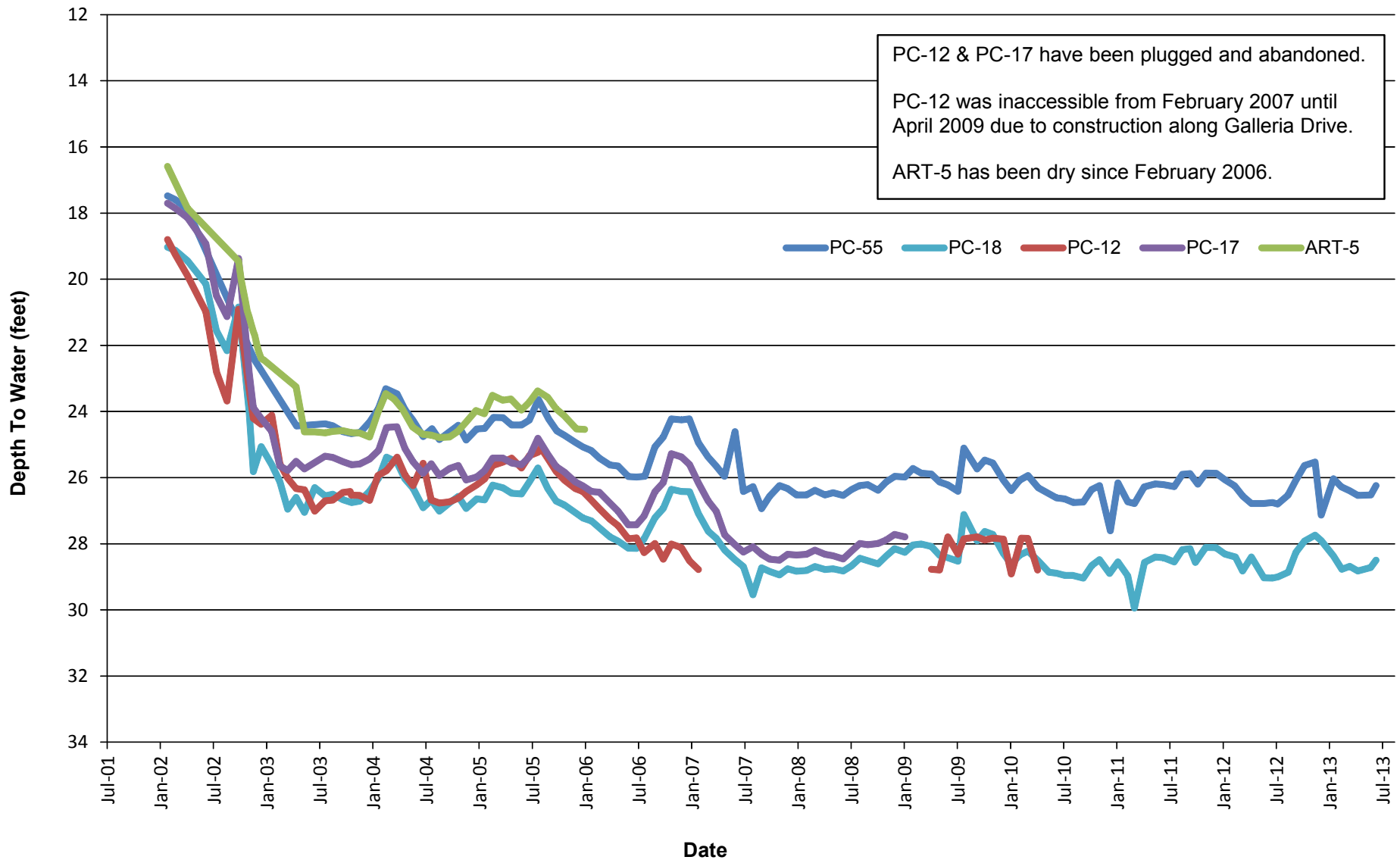
2c



Hydrograph Pair Across the Barrier Wall - M-72 and M-58
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

2d



Athens Road Well Field Drawdown
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

3

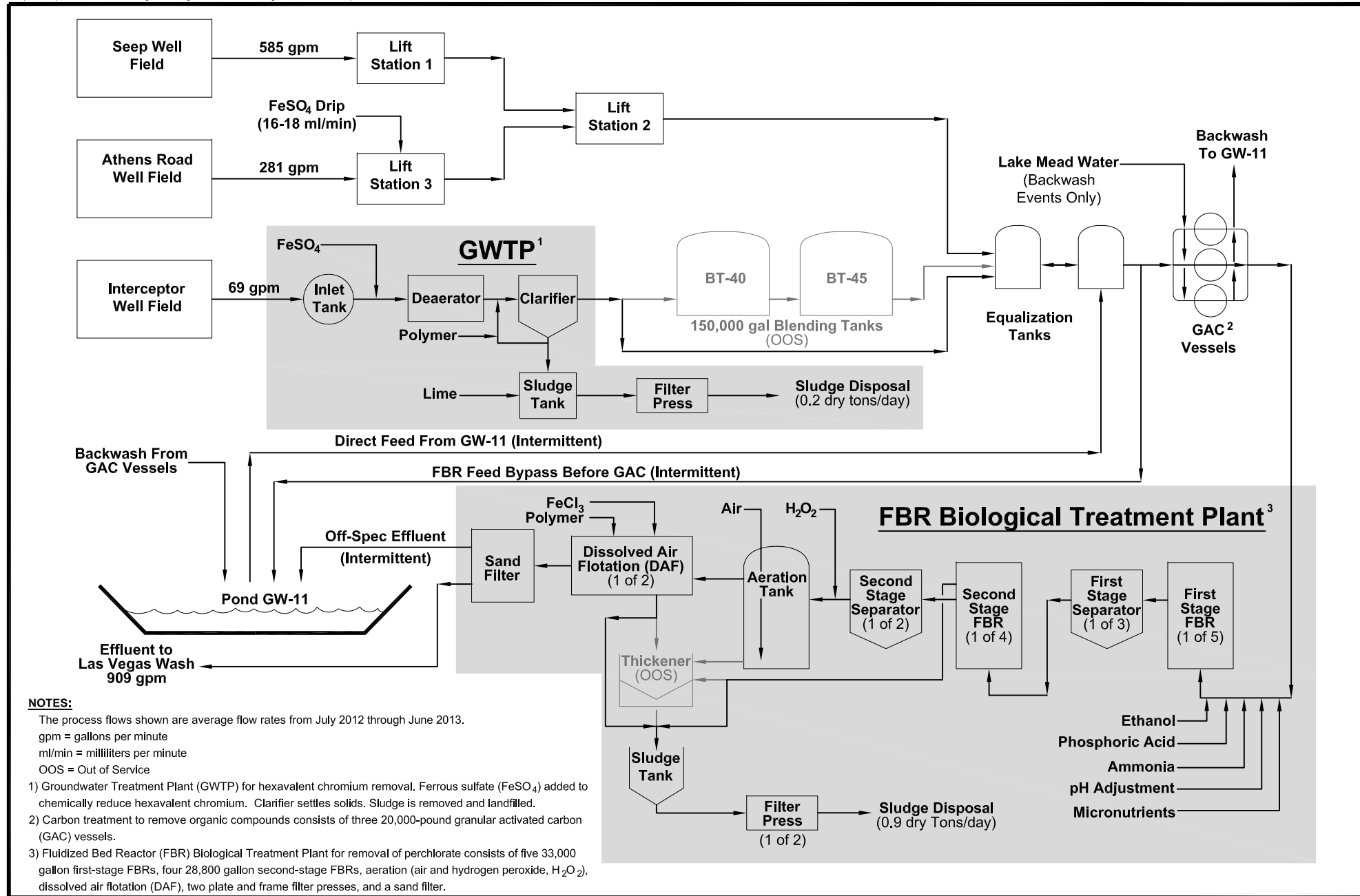
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Date: 6/30/13

Contract Number: 21-32100H

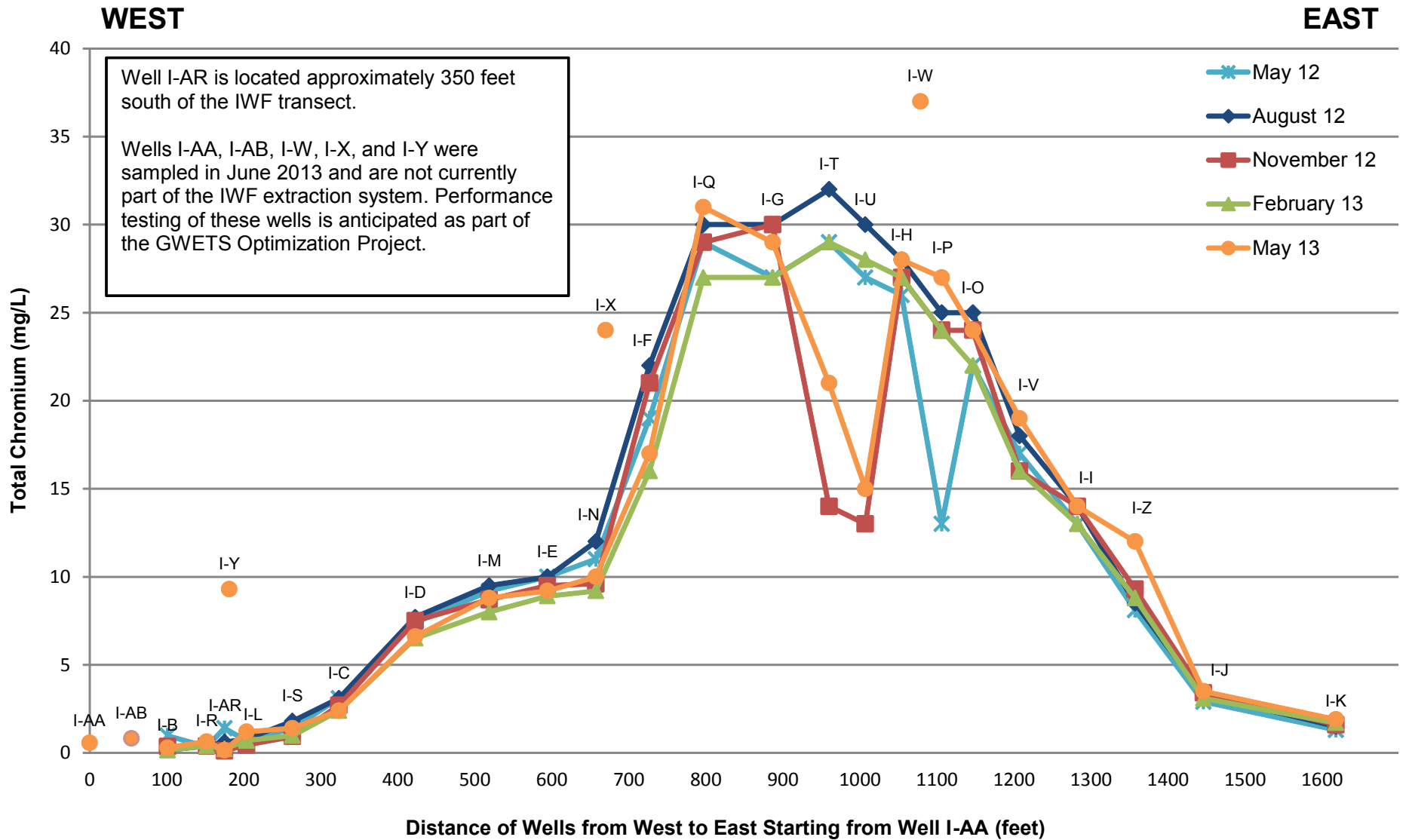
Approved:

Revised:



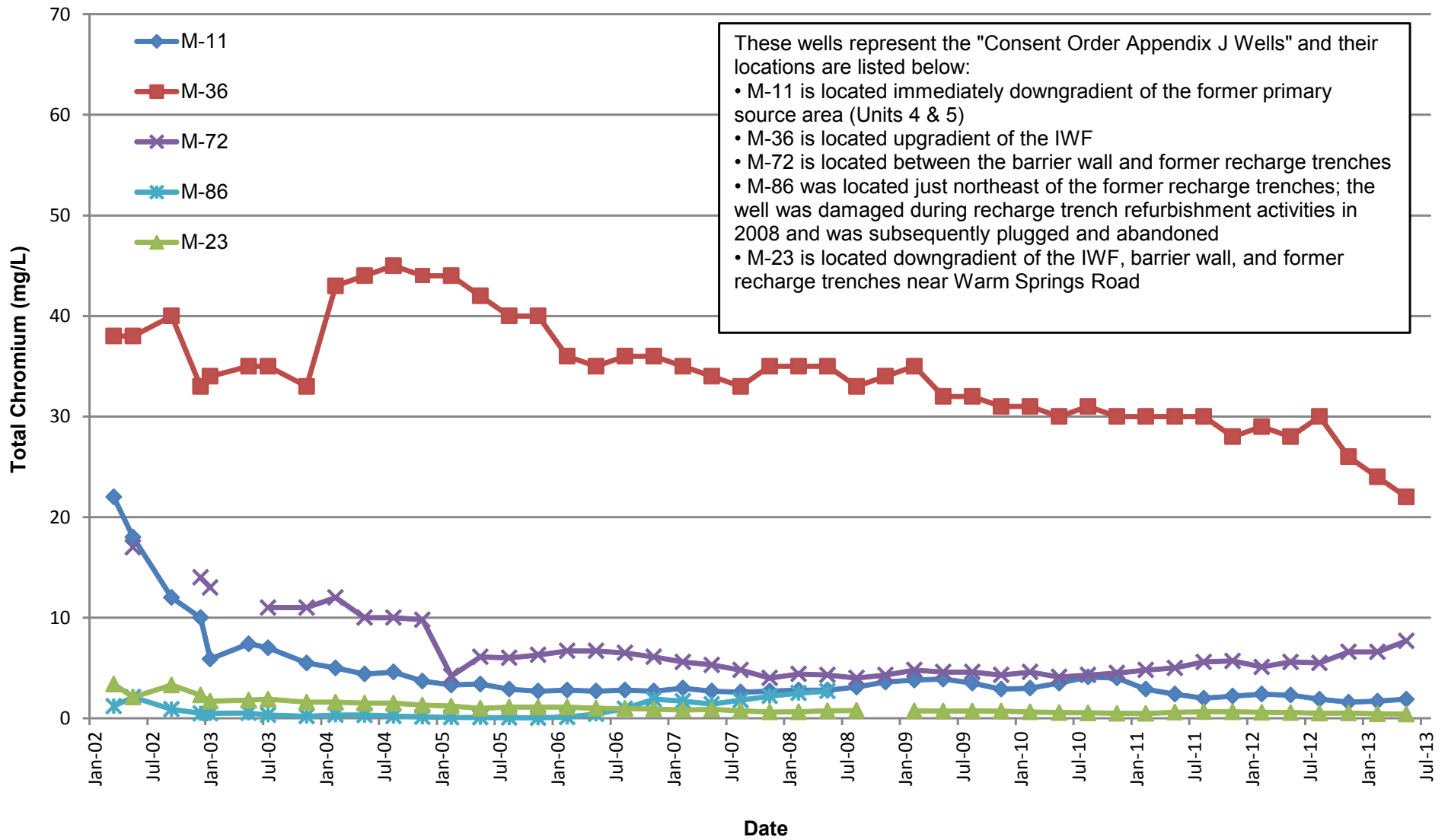
Groundwater Extraction and Treatment System (GWETS) Flow Diagram
 Nevada Environmental Response Trust (NERT)
 Henderson, Nevada

Figure
4



Interceptor Well Field Transect Total Chromium Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

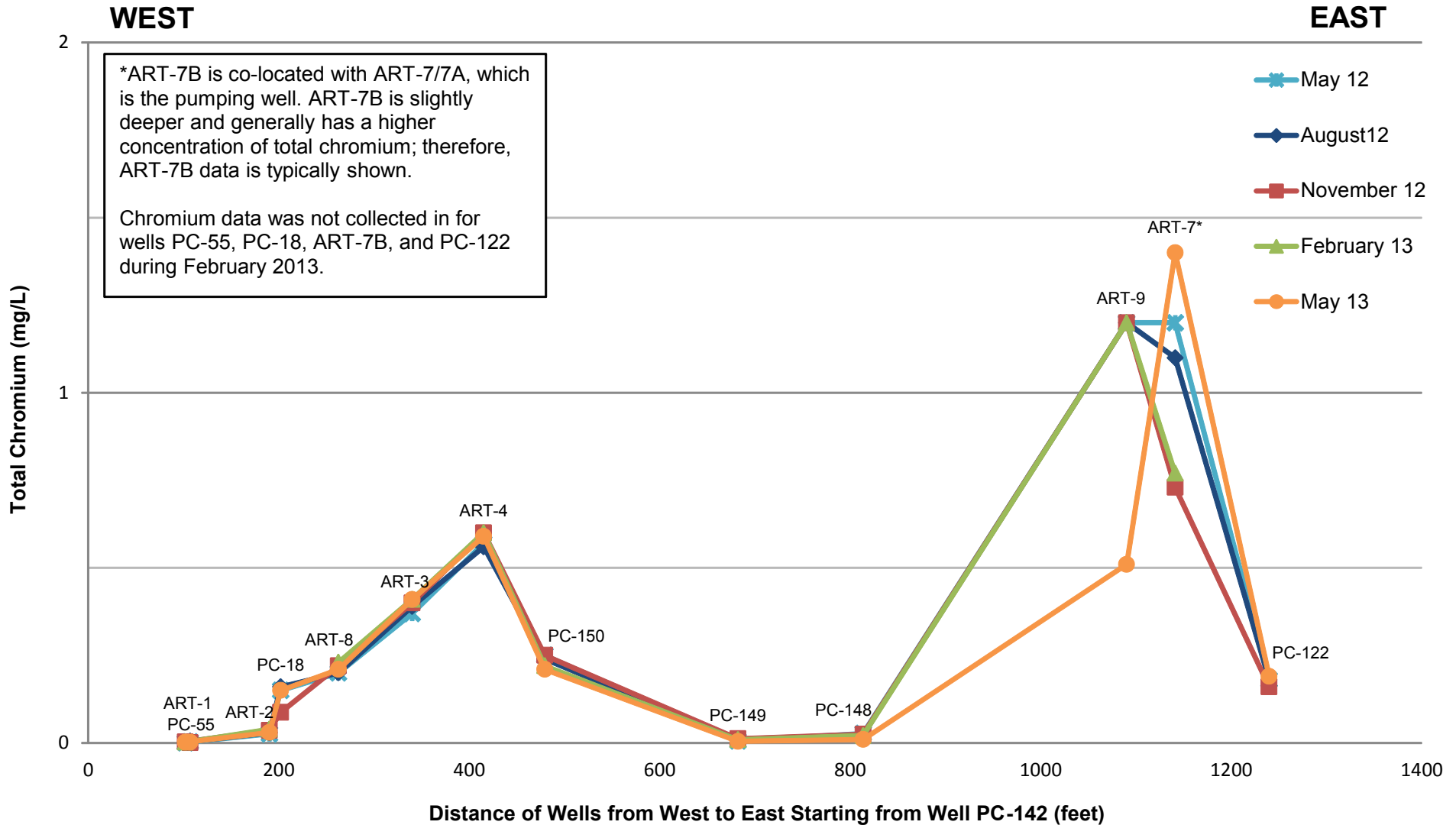
Figure



Total Chromium Concentration Trends in Select Wells
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

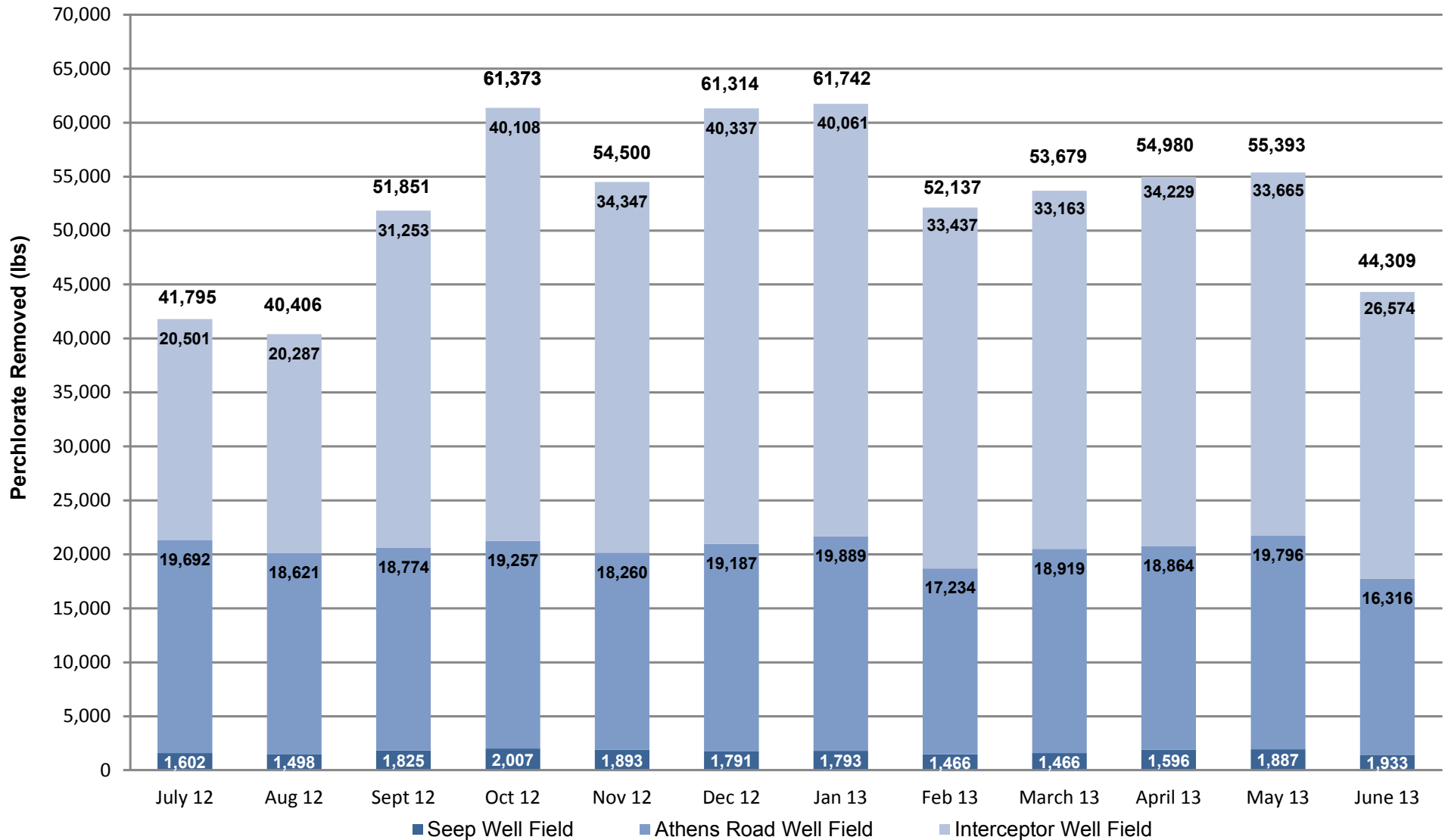
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Athens Road Well Field Transect Total Chromium Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

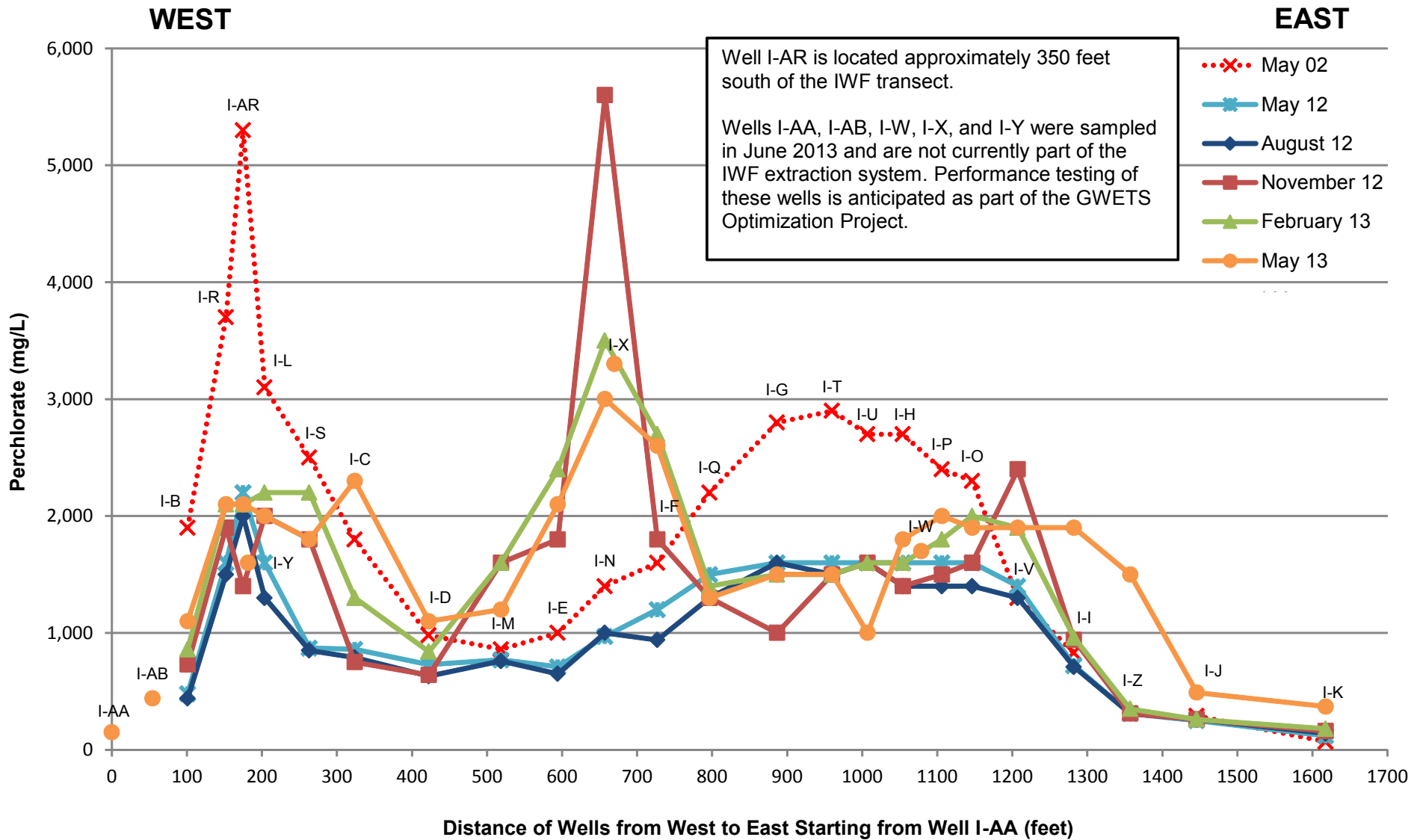
7



Perchlorate Removed from the Environment July 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

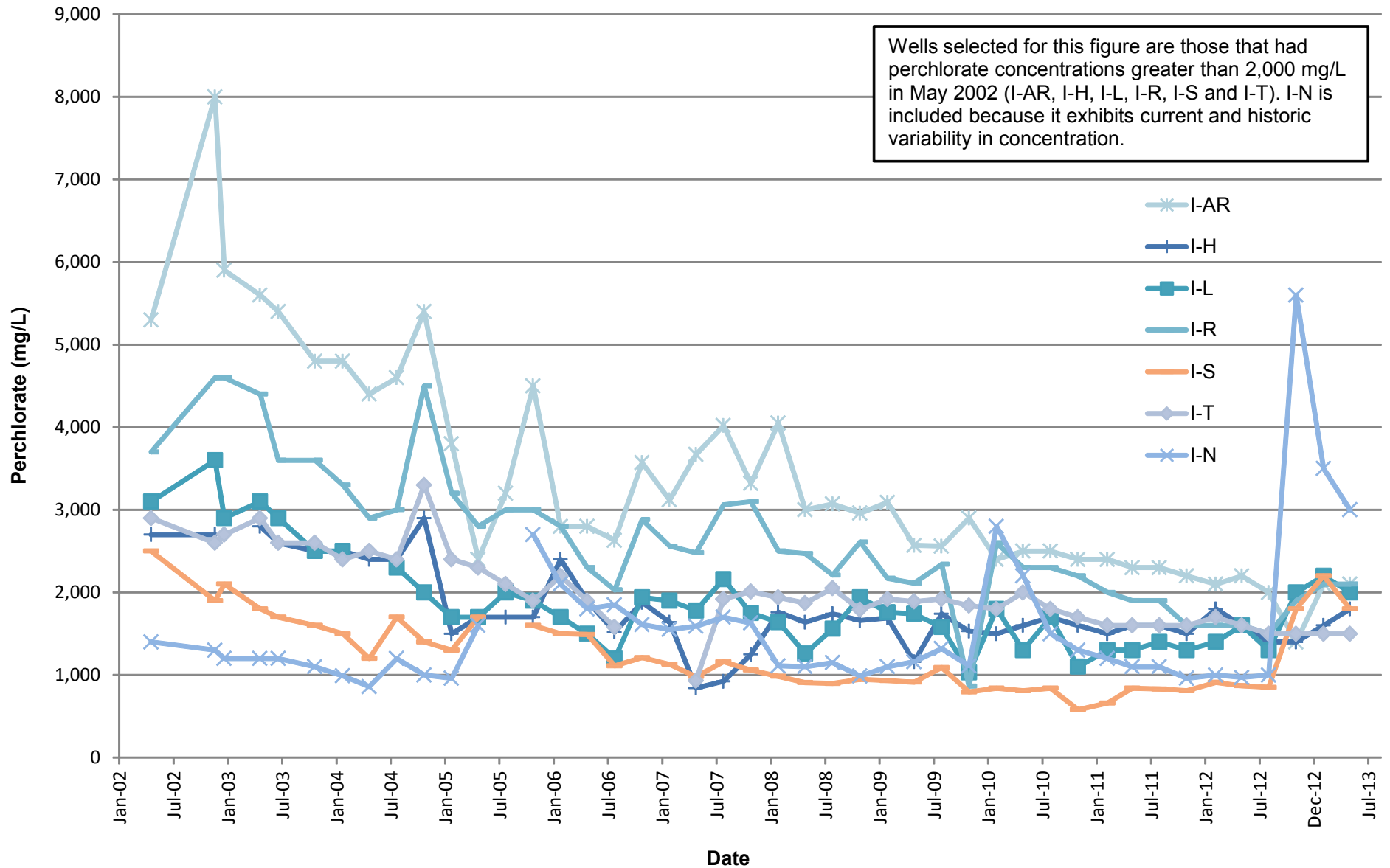
8



Interceptor Well Field Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

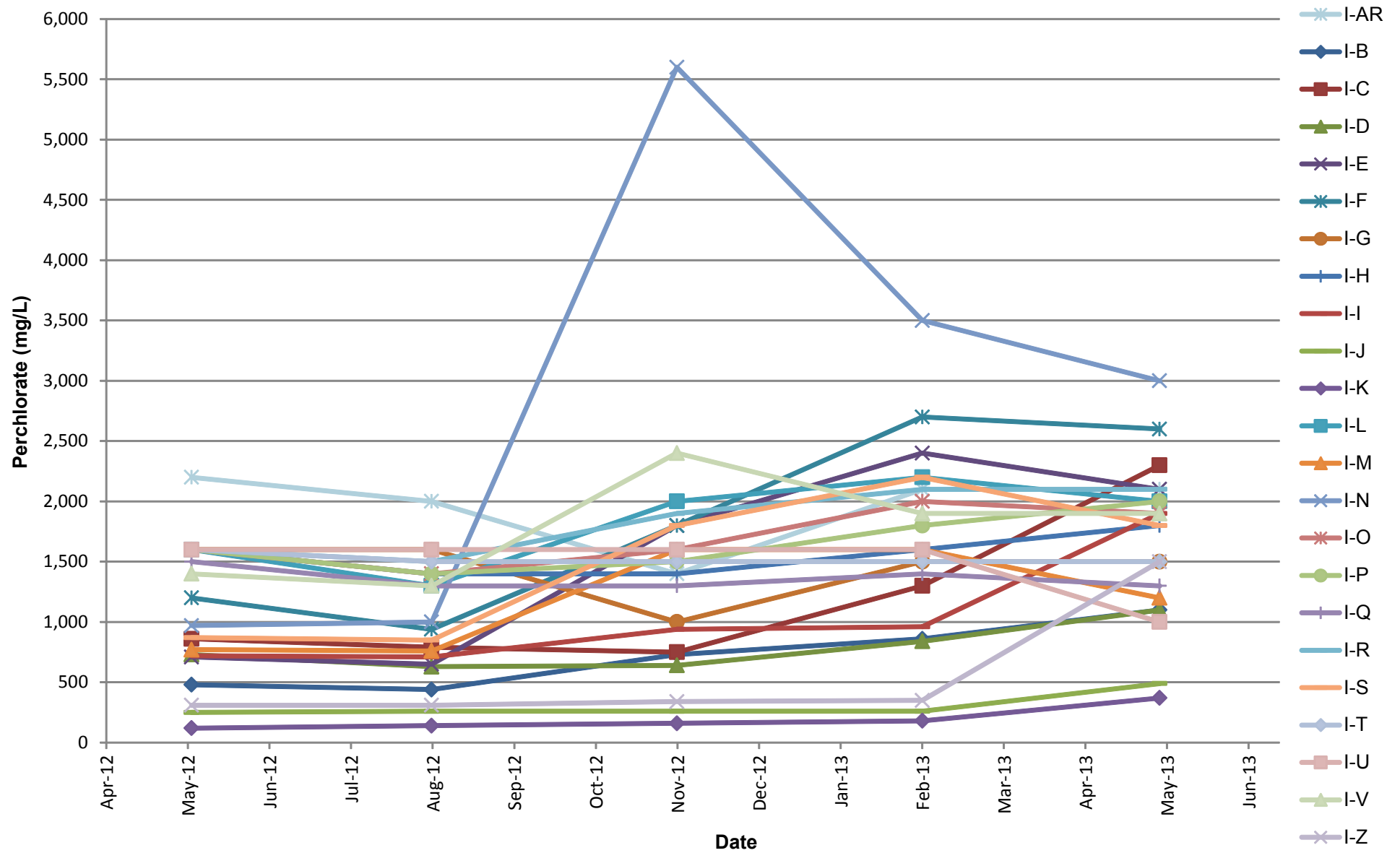
9



Interceptor Well Field Perchlorate Concentration Trends for Select Wells
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

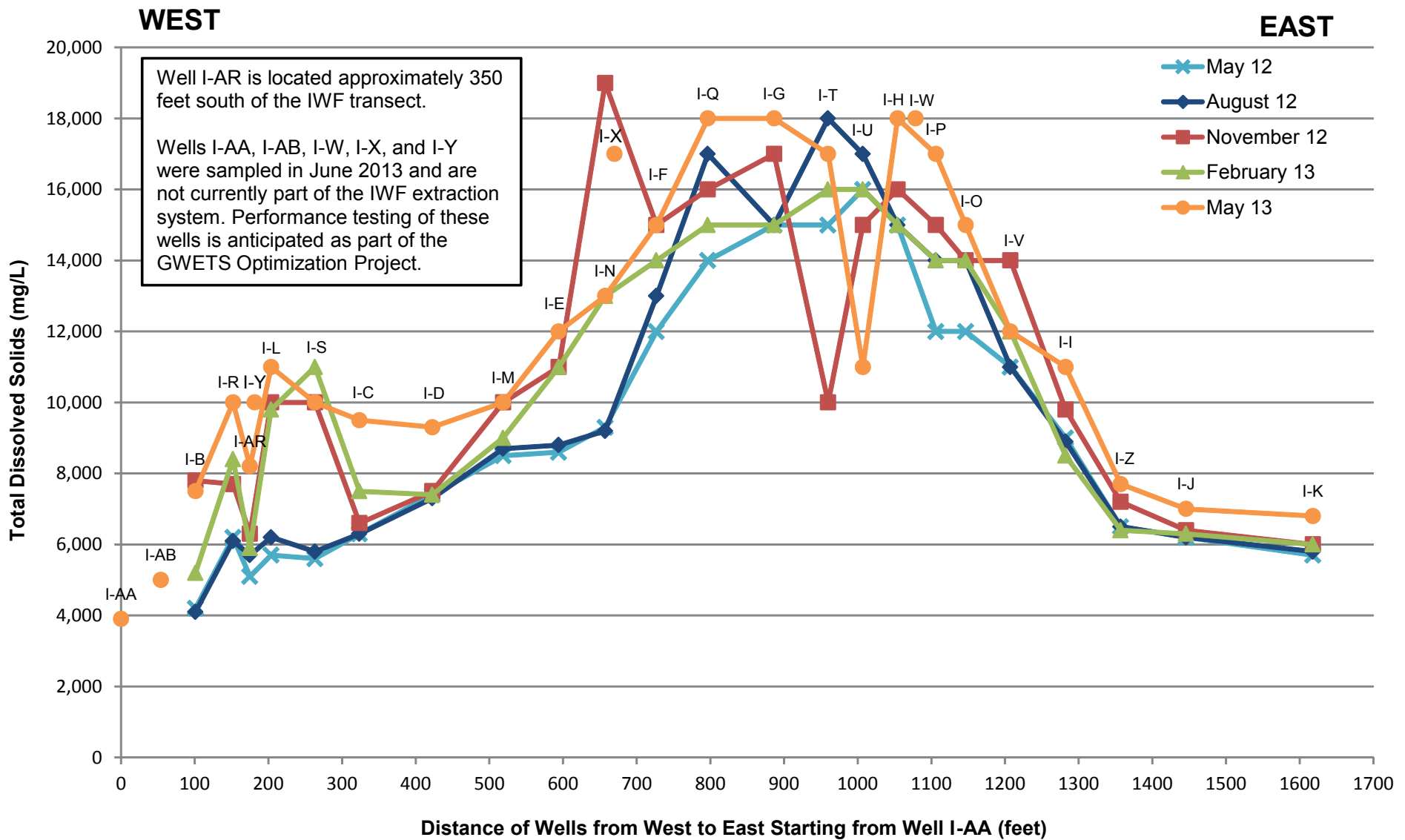
10



Interceptor Well Field Perchlorate Concentration Trends, May 2012 - May 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

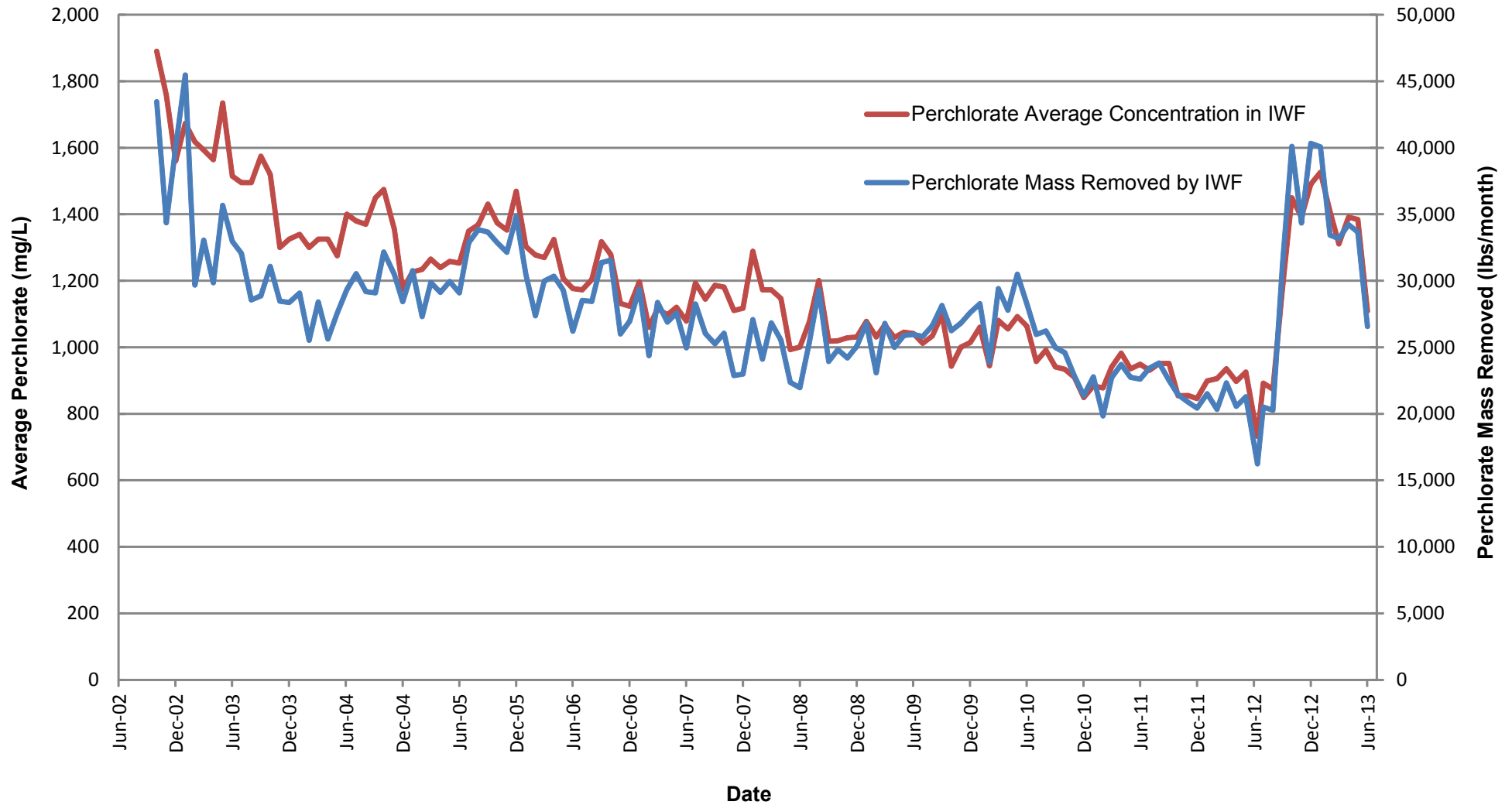
10a



Interceptor Well Field Transect Total Dissolved Solids Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

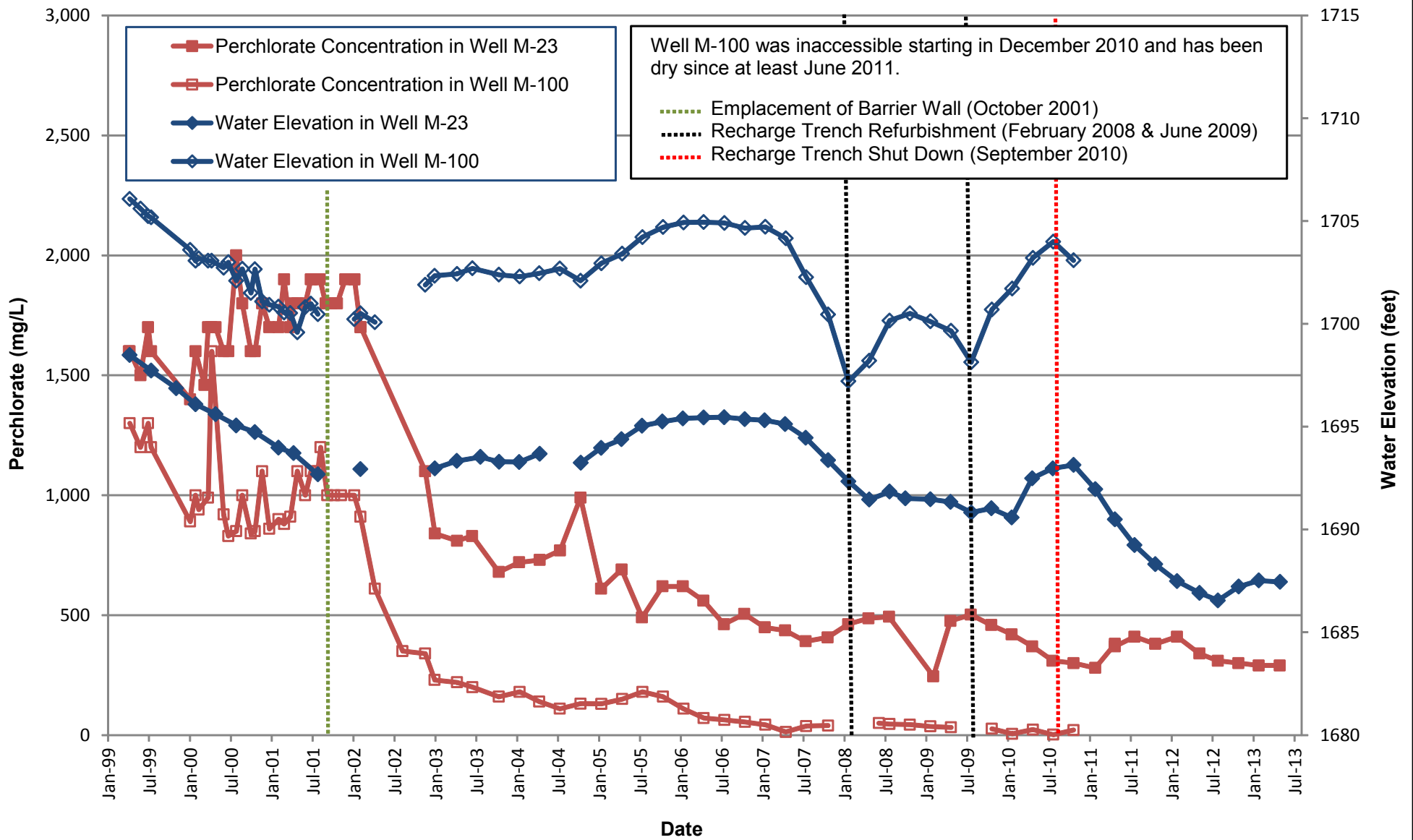
11



Interceptor Well Field Average Perchlorate Concentration and Mass Removed
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

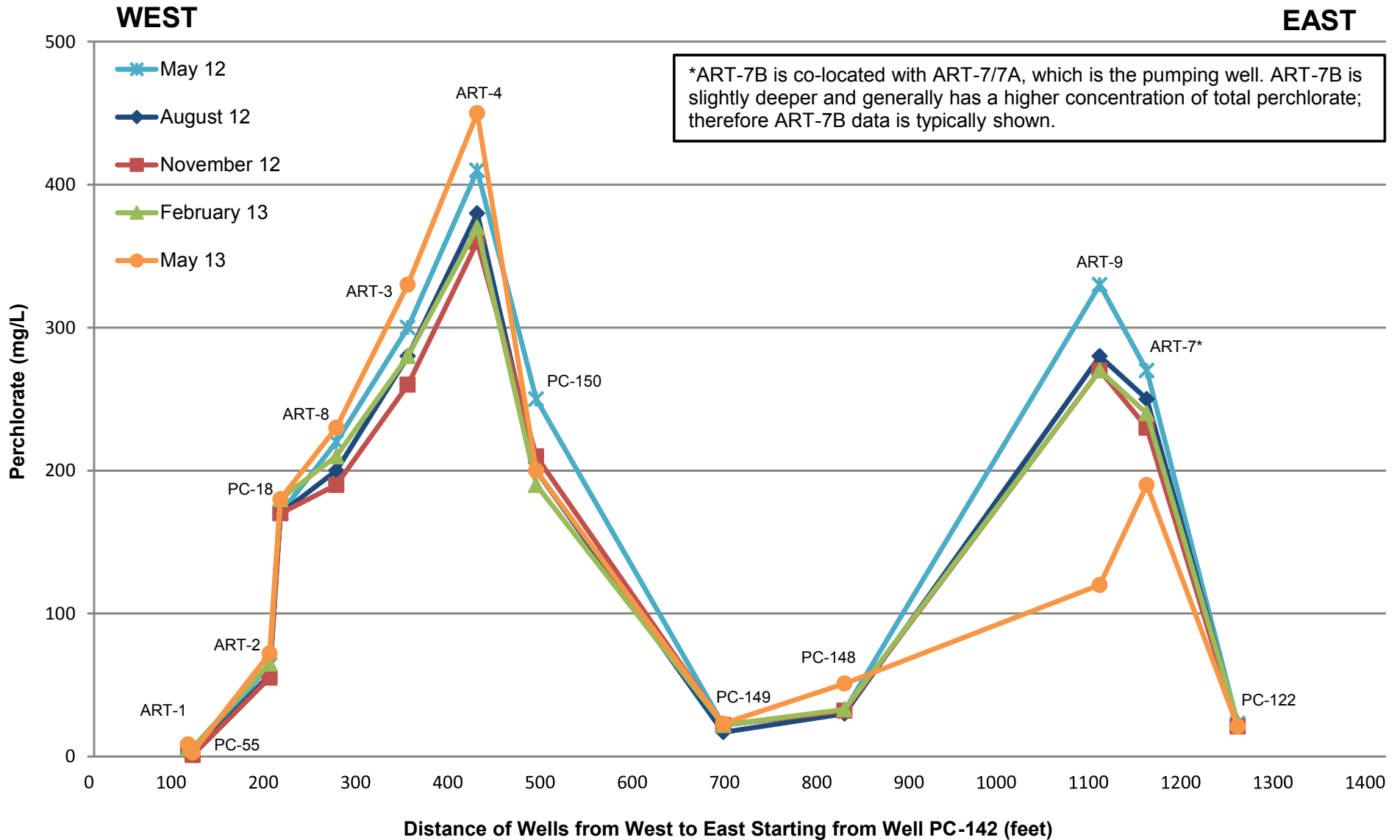
12



Wells M-23 and M-100 Perchlorate Concentration vs. Water Elevation Trends
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

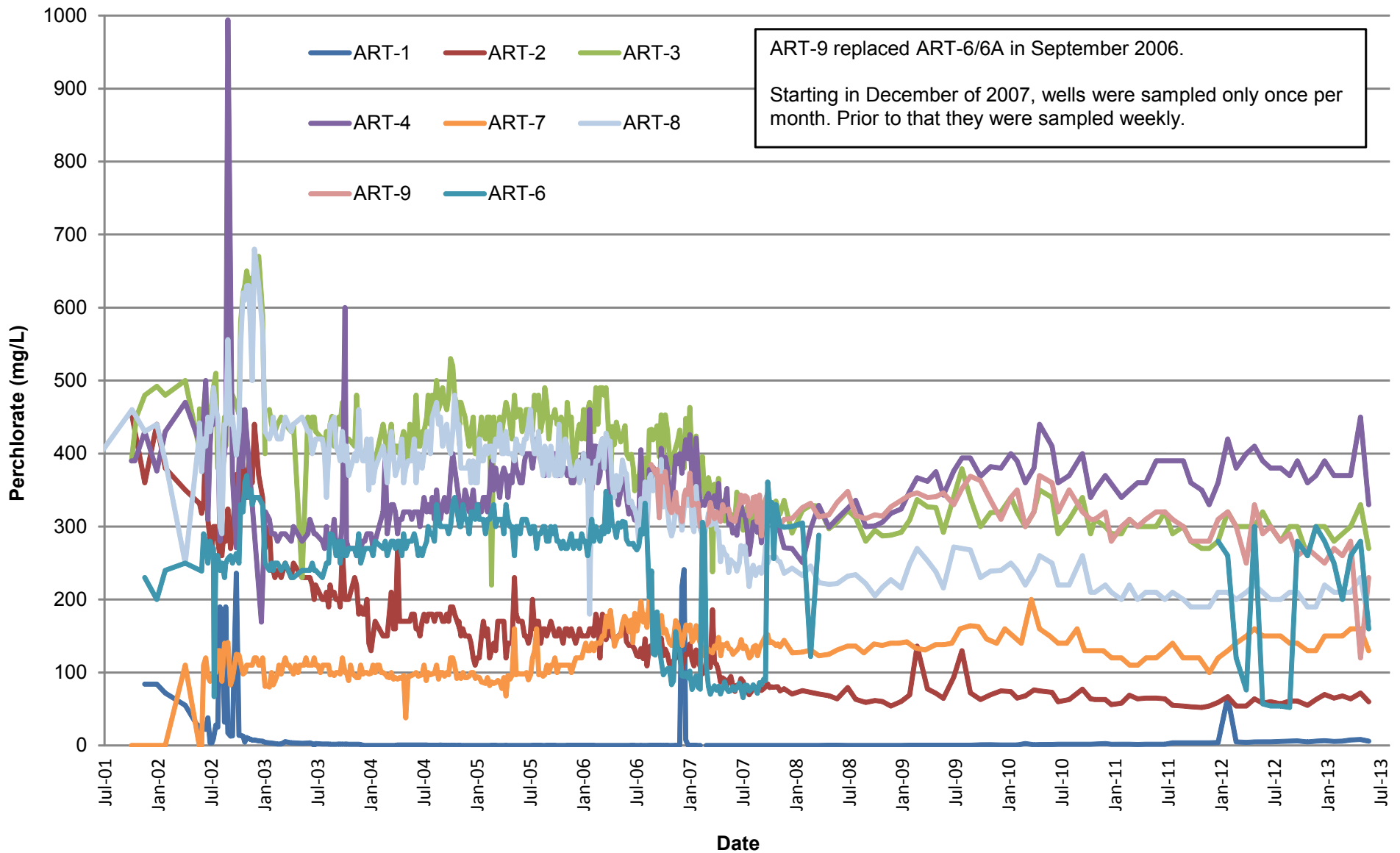
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Athens Road Well Field Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

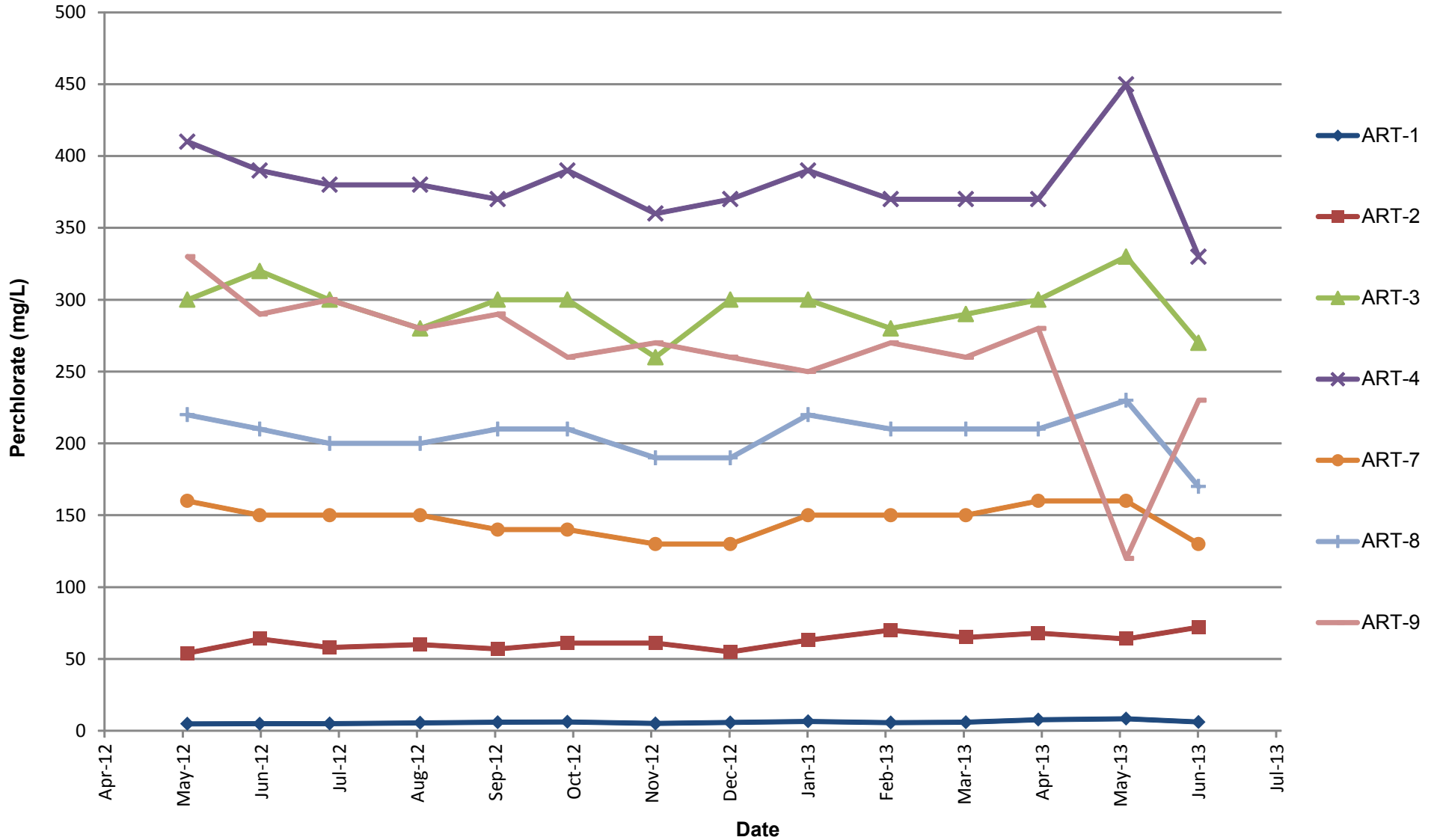
Figure

14



Athens Road Well Field Perchlorate Concentration Trends
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

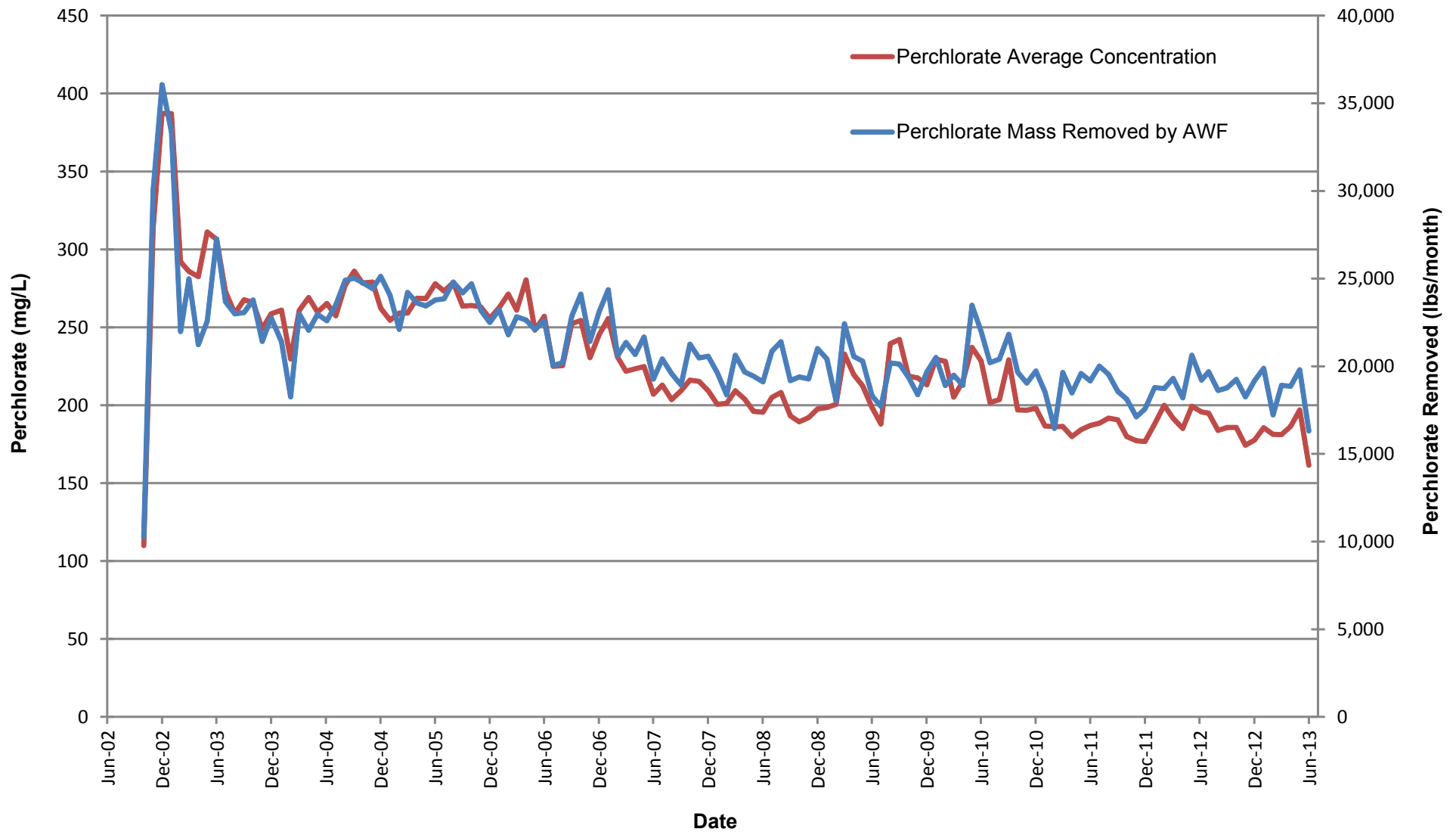
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Athens Road Well Field Perchlorate Concentration Trends, May 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

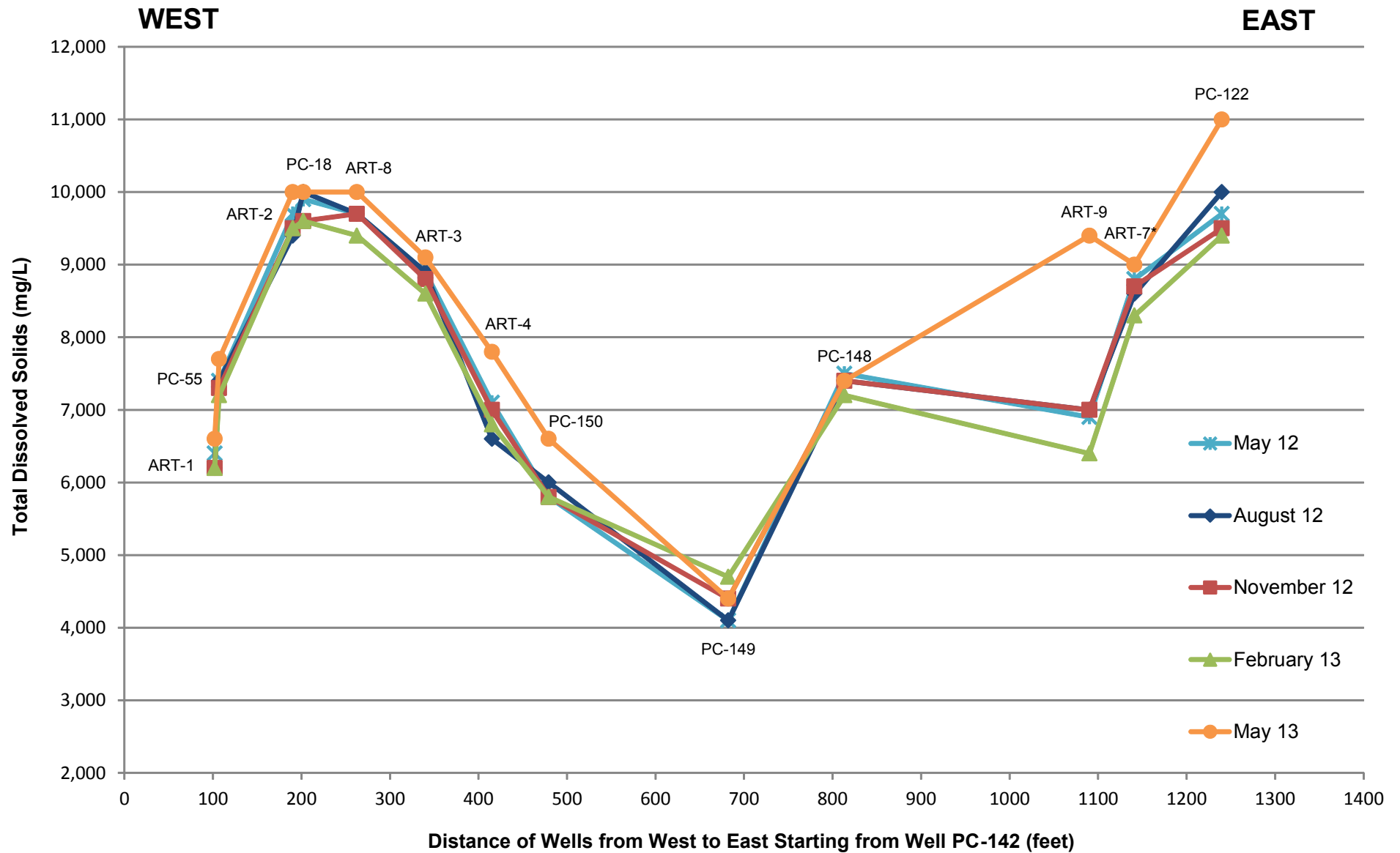
15a



Athens Road Well Field Average Perchlorate Concentration and Mass Removed
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

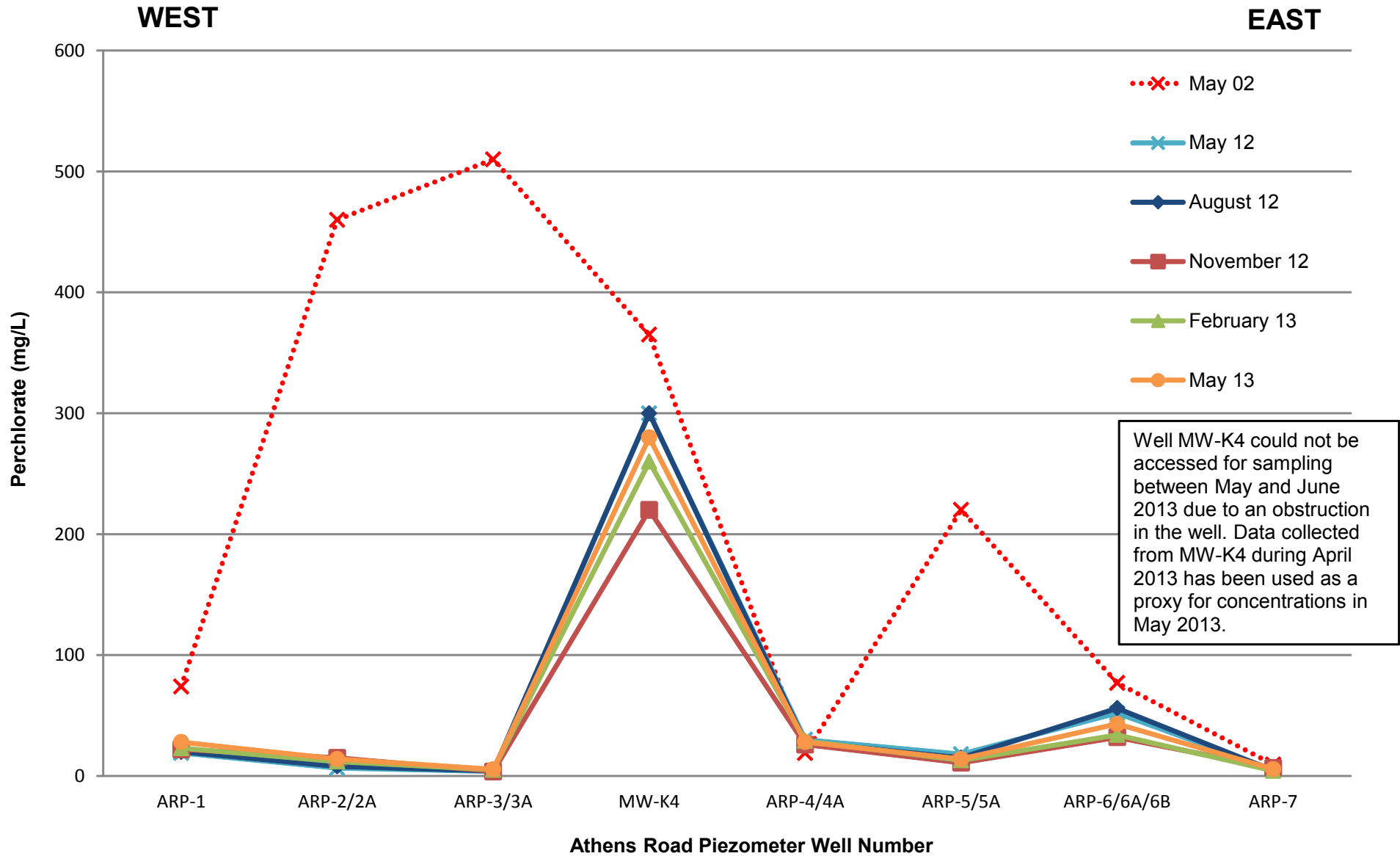
16



Athens Road Well Field Transect Total Dissolved Solids Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

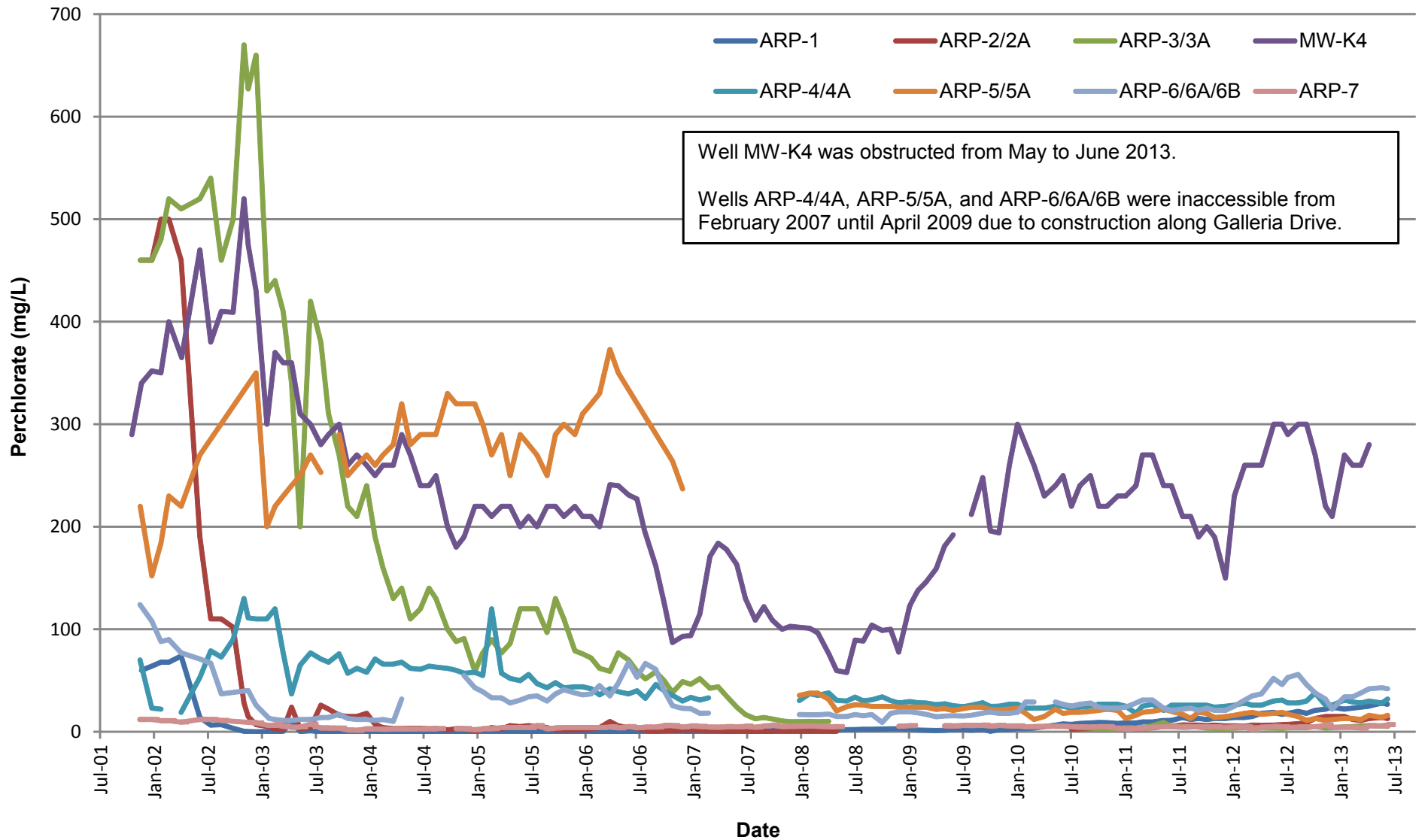
17



Athens Road Piezometer Well Line Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

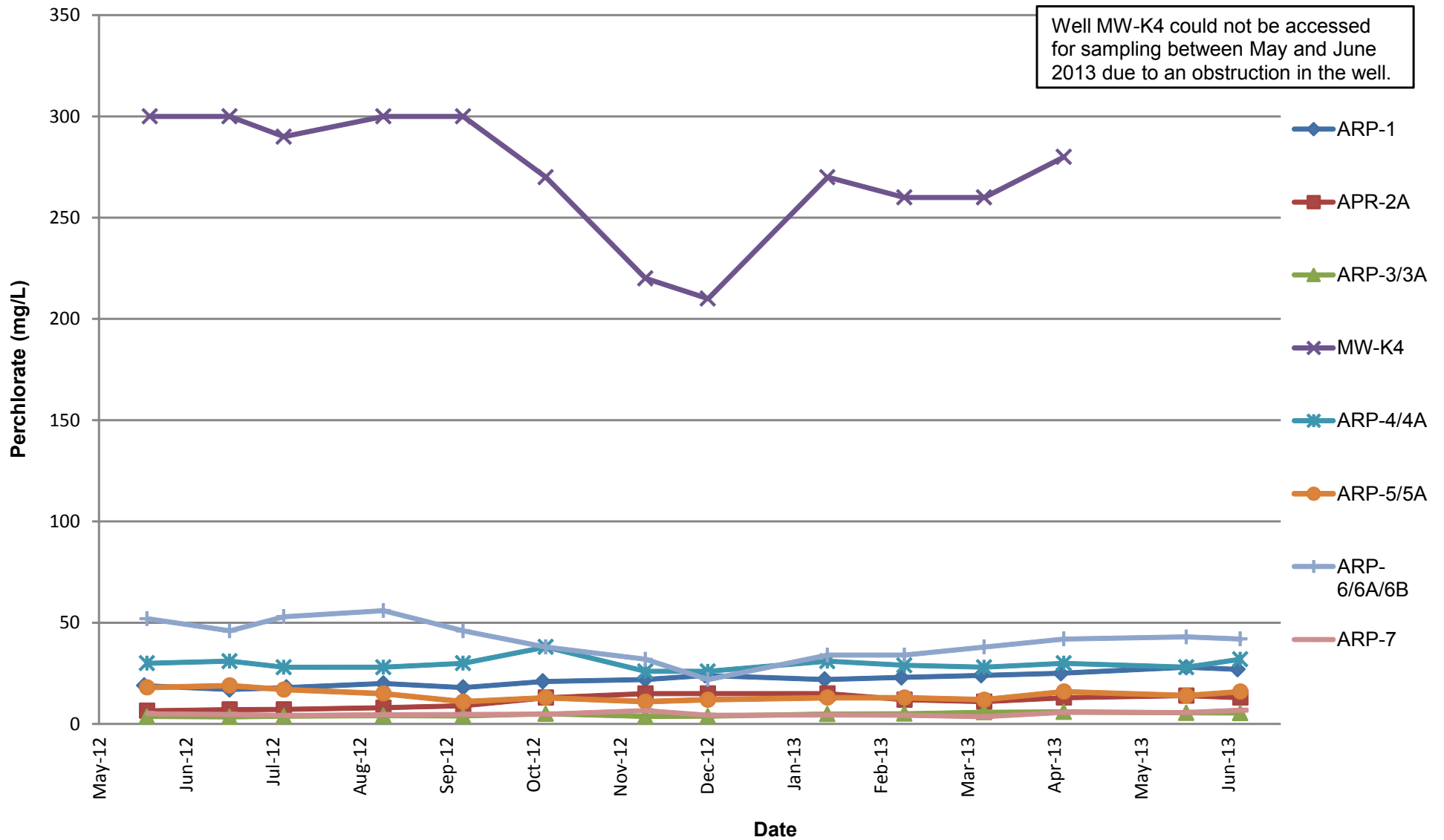
18



Athens Road Piezometer Well Line Perchlorate Concentration Trends
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

19



Athens Road Piezometer Well Line Perchlorate Concentration Trends, May 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

19a

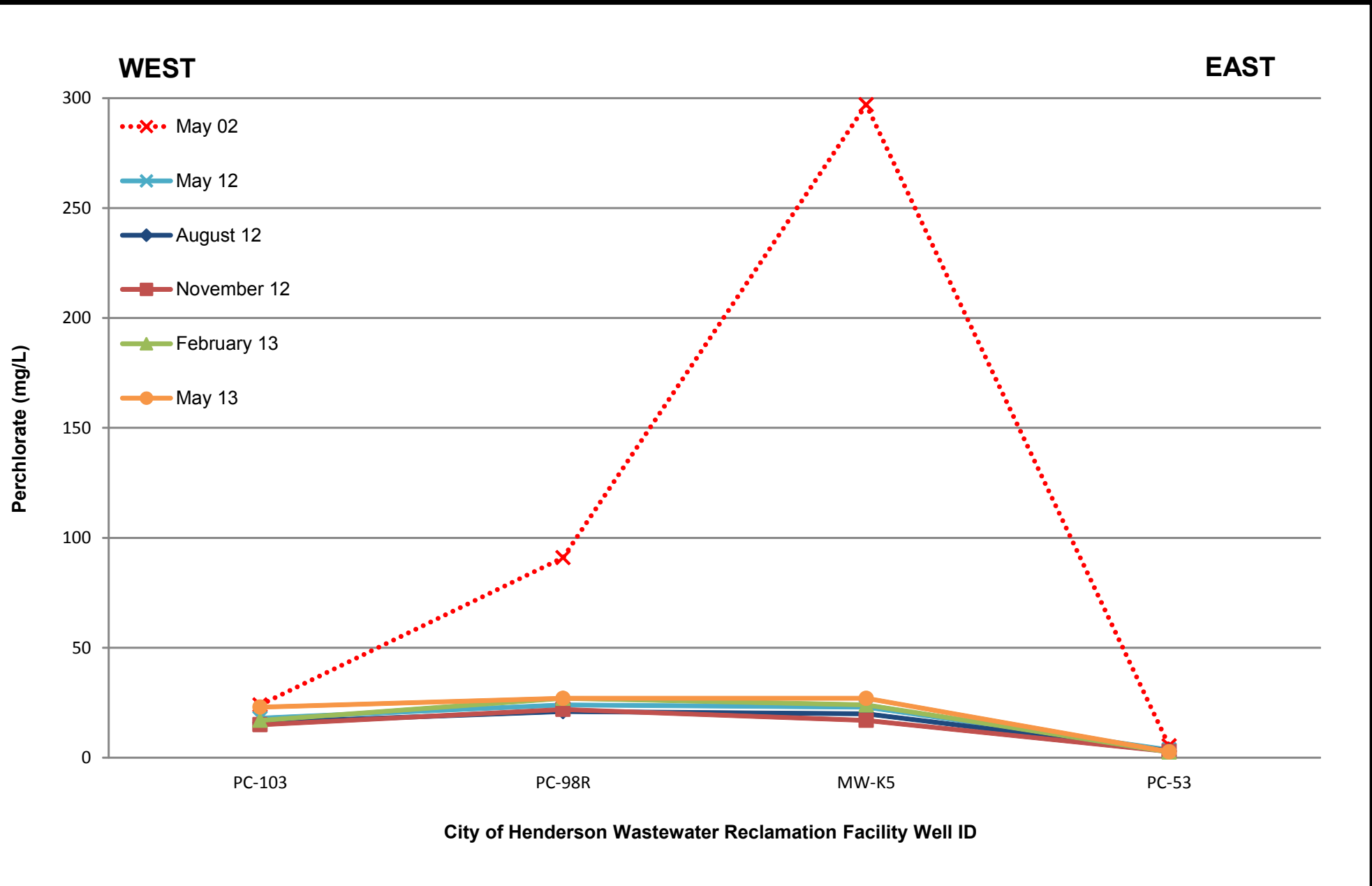
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Date: 8/30/13

Contract Number: 21-32100H

Approved:

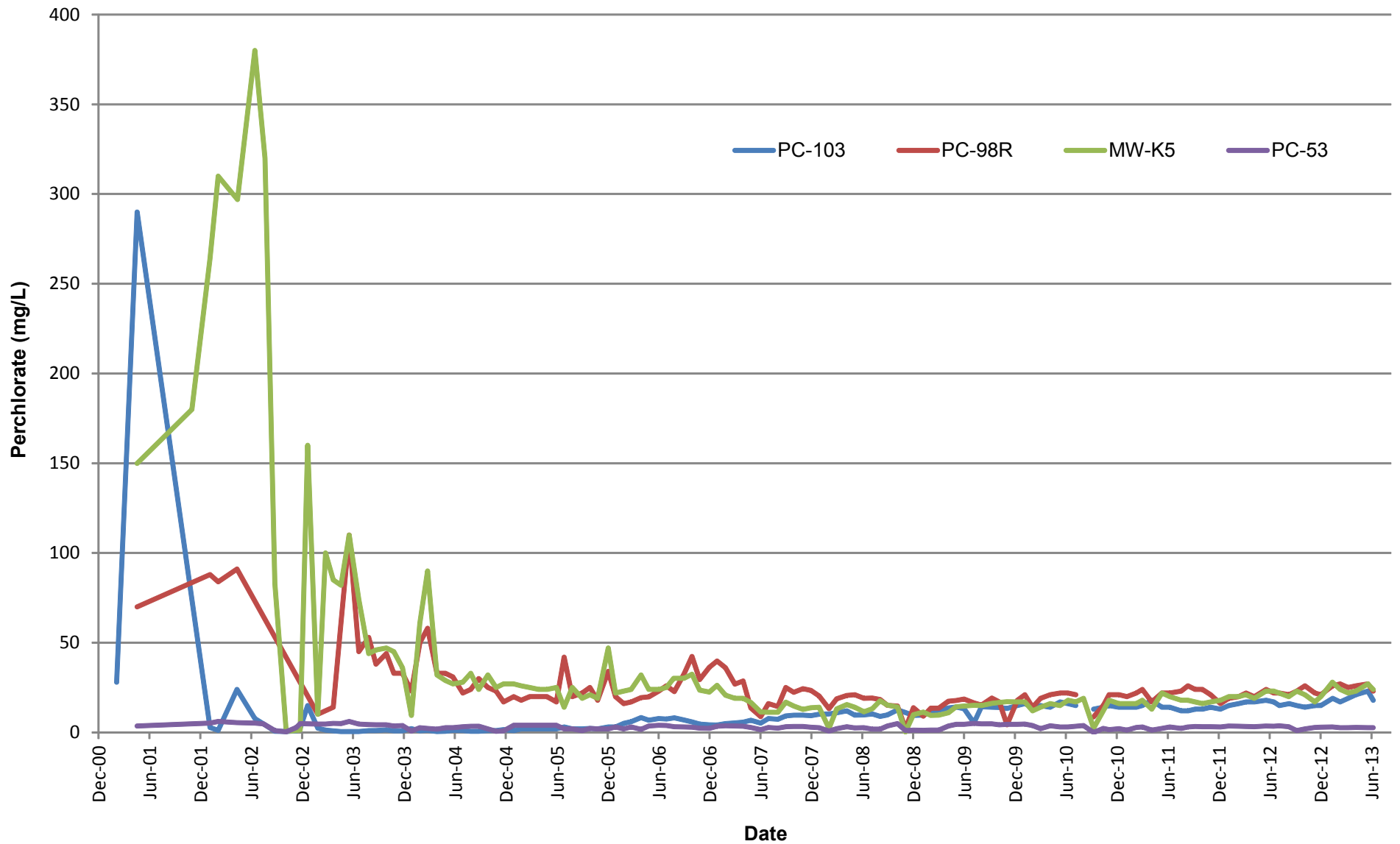
Revised:



City of Henderson WRF Well Line Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

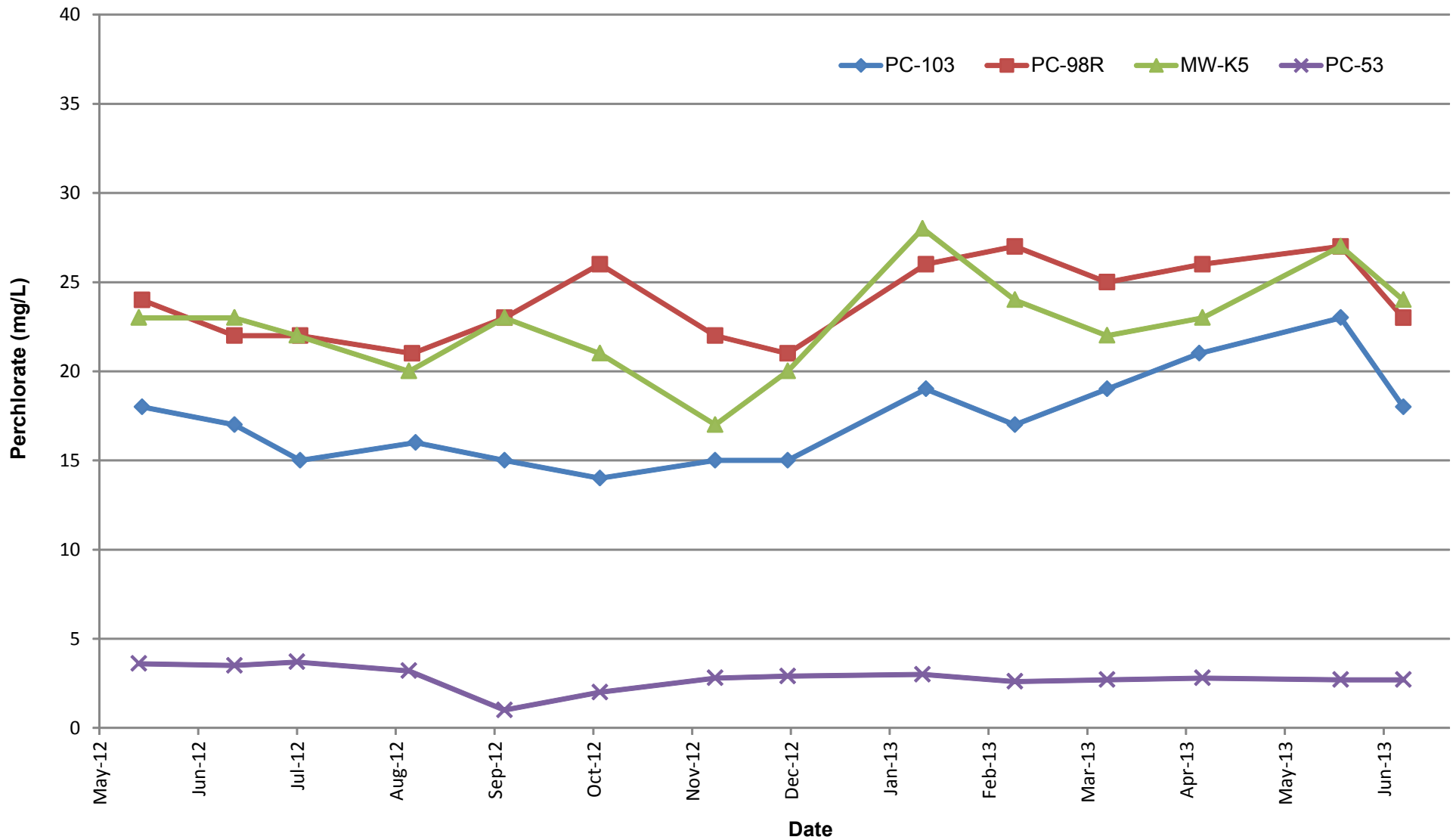
20



City of Henderson WRF Well Line Perchlorate Concentration Trends
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

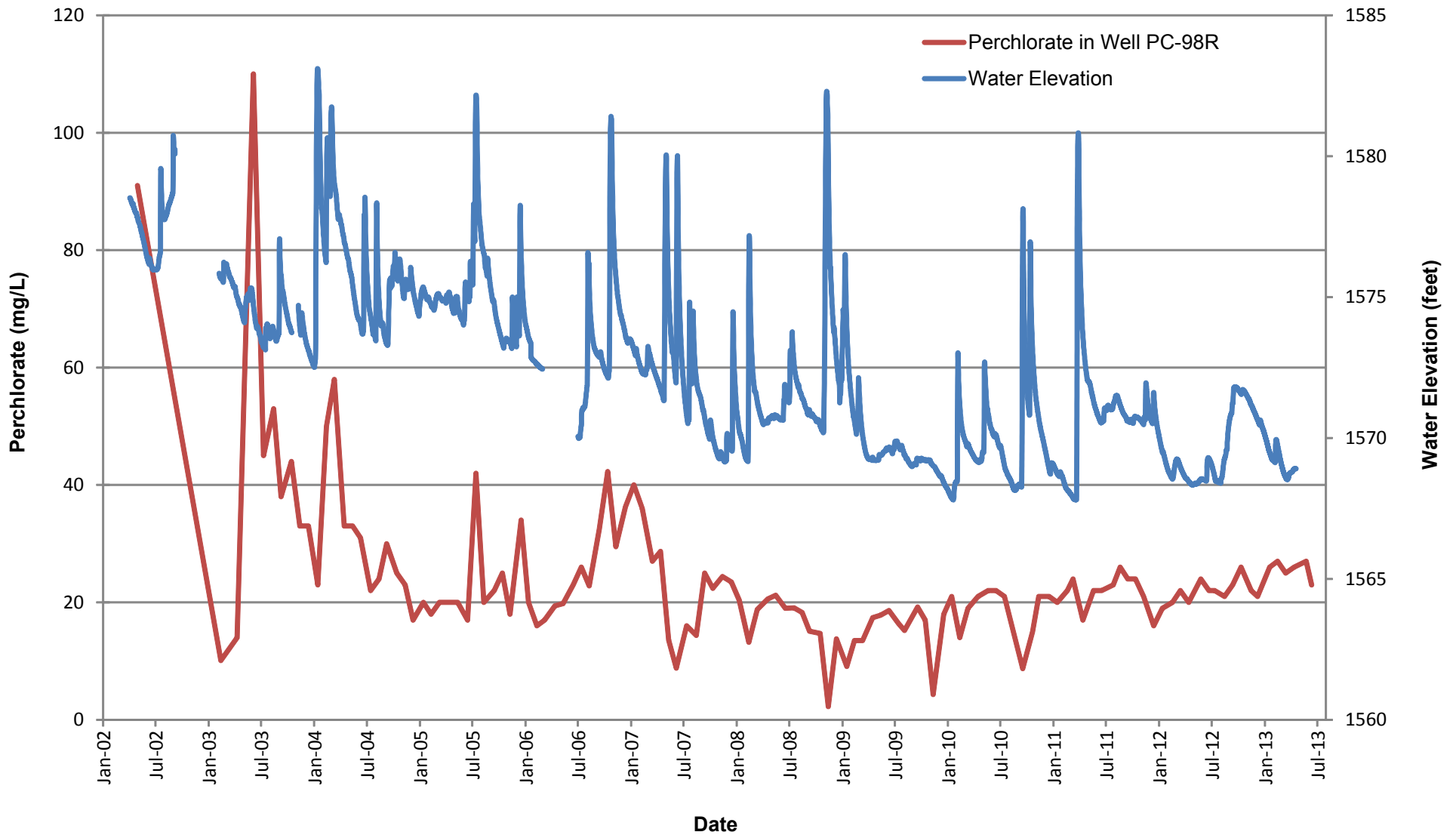
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City of Henderson WRF Well Line Perchlorate Concentration Trends, May 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

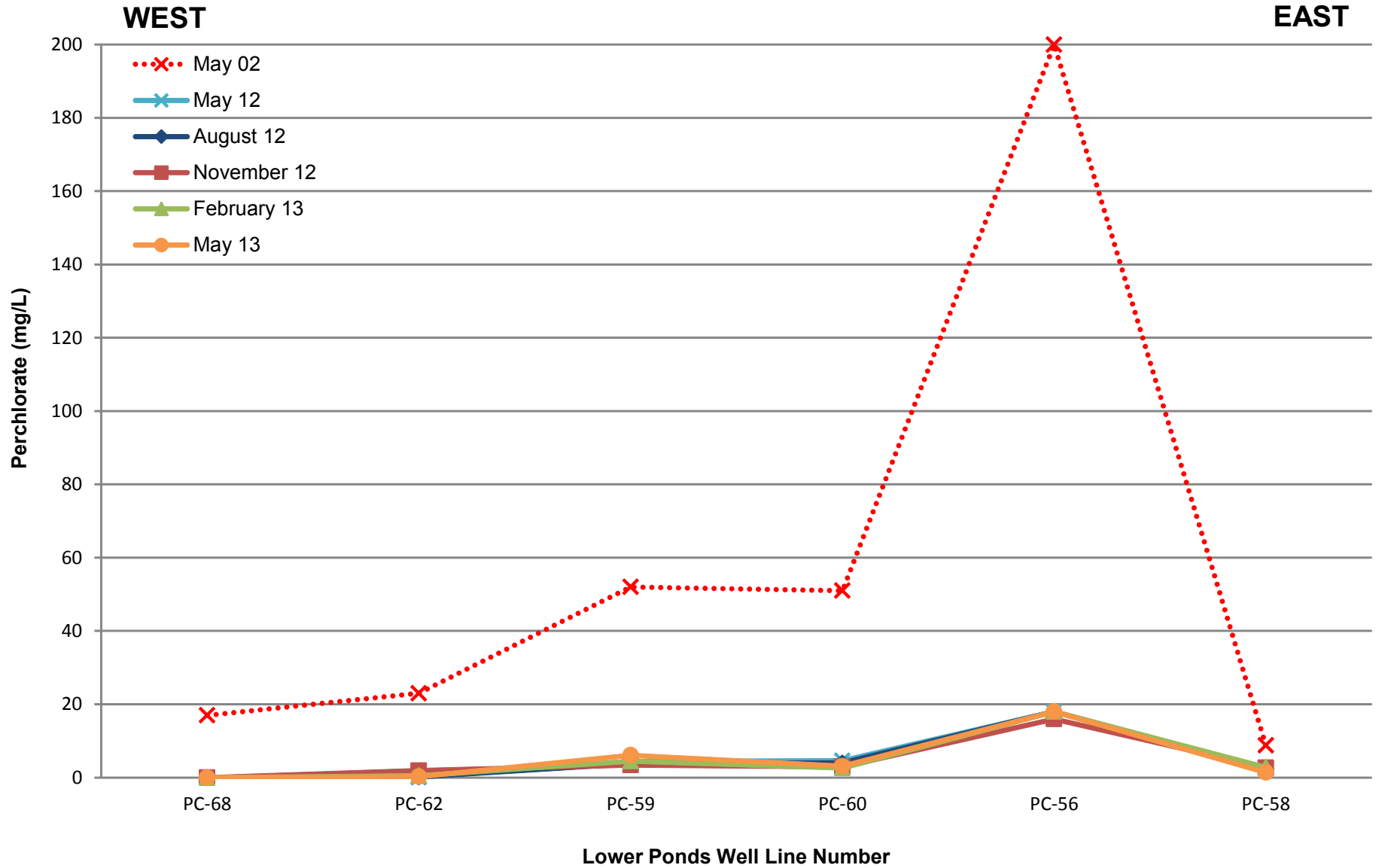
21a



Well PC-98R Perchlorate Concentration vs. Water Elevation Trends
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

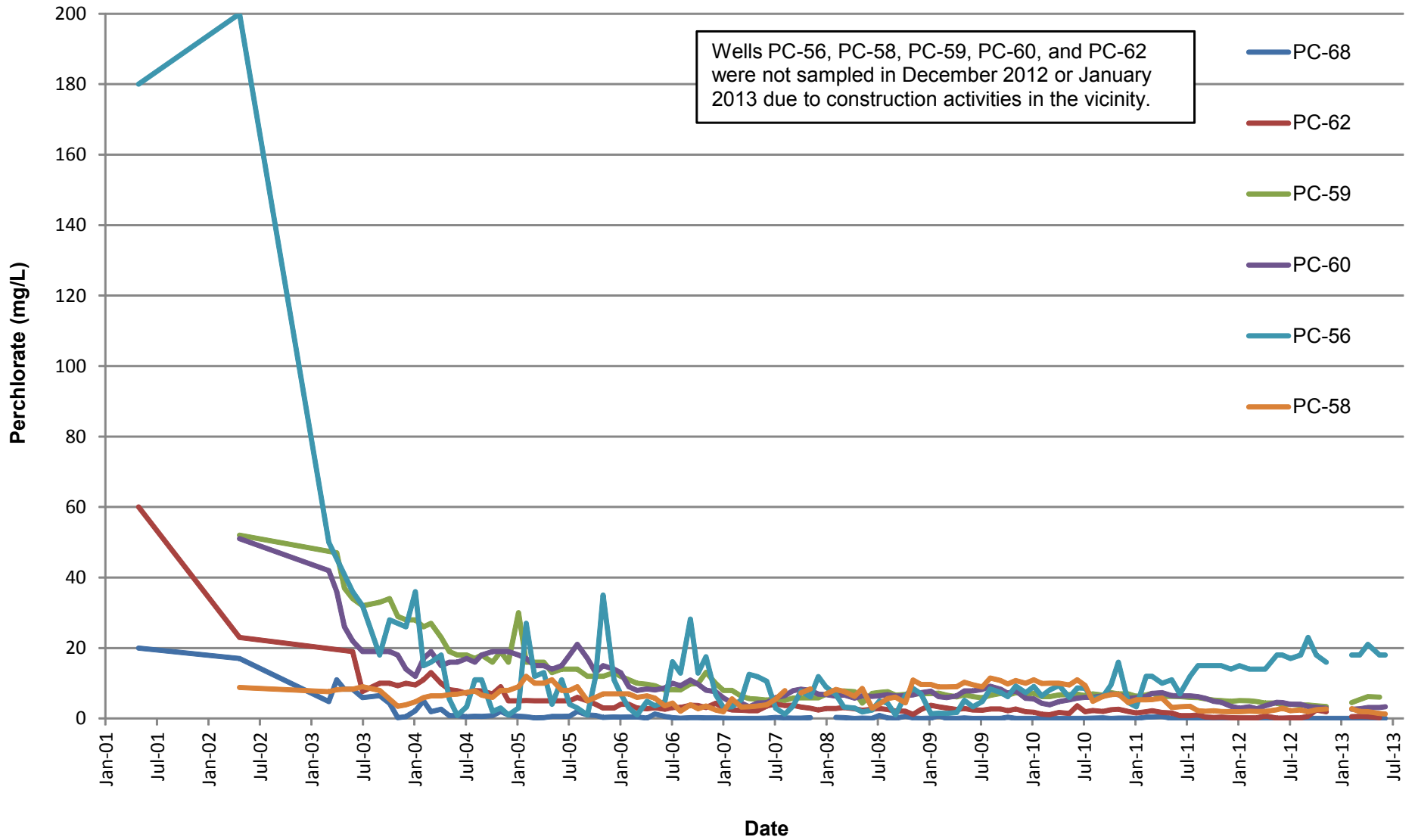
22



Lower Ponds Well Line Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

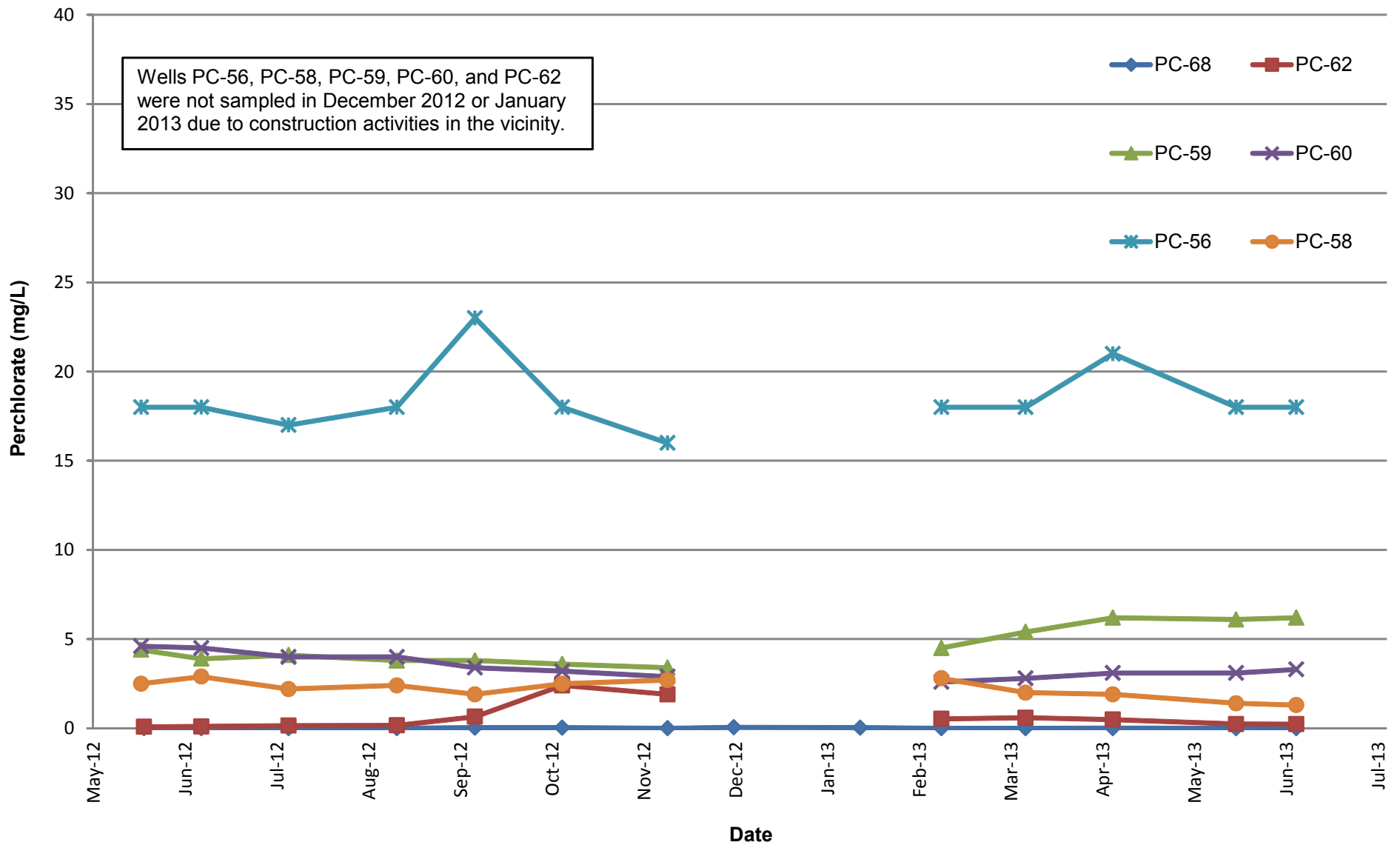
Figure

23



Lower Ponds Well Line Perchlorate Concentration Trends
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

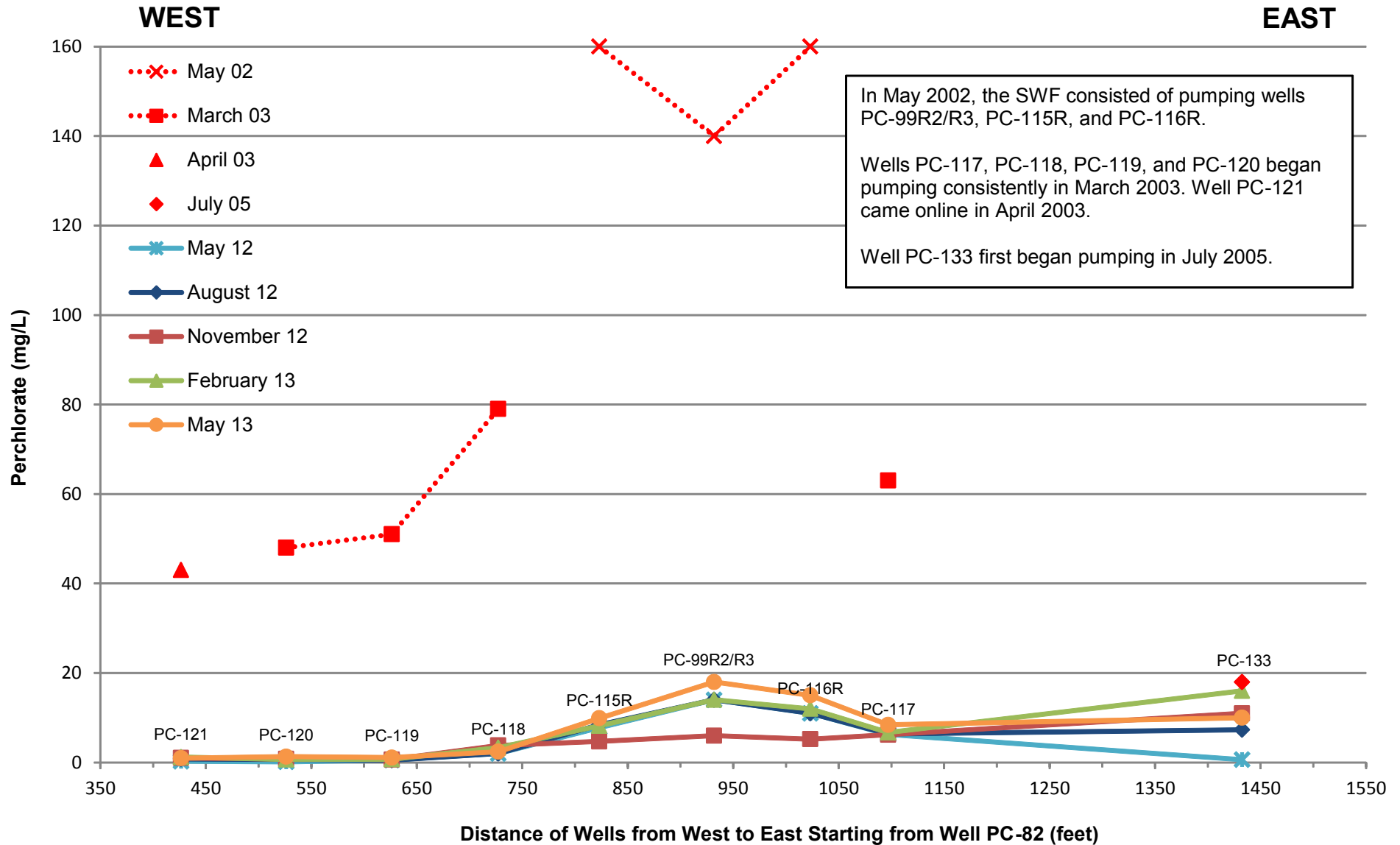
Figure
24



Lower Ponds Well Line Perchlorate Concentration Trends, May 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

24a



Seep Well Field Transect Perchlorate Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

25

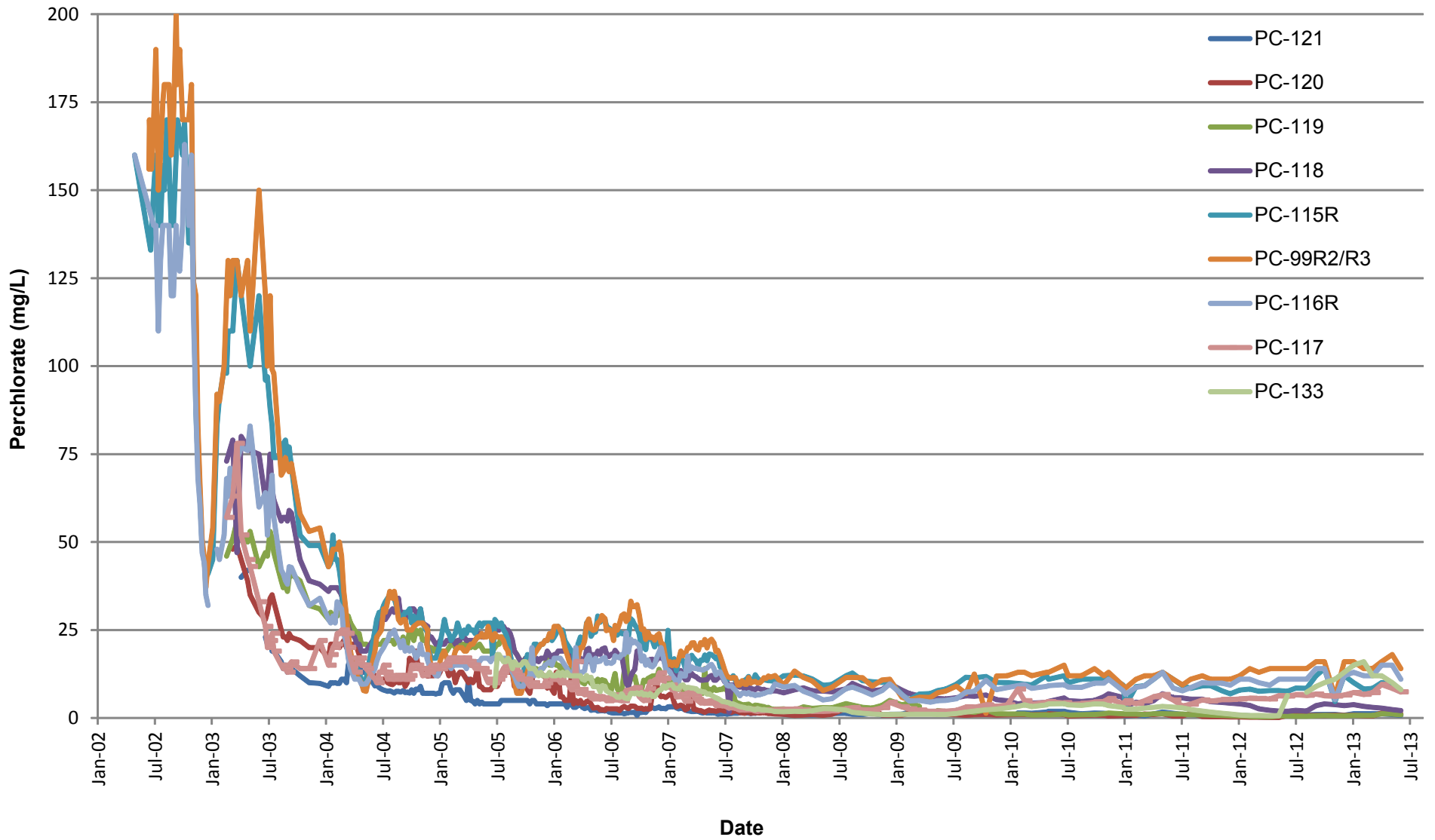
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Date: 8/30/13

Contract Number: 21-32100H

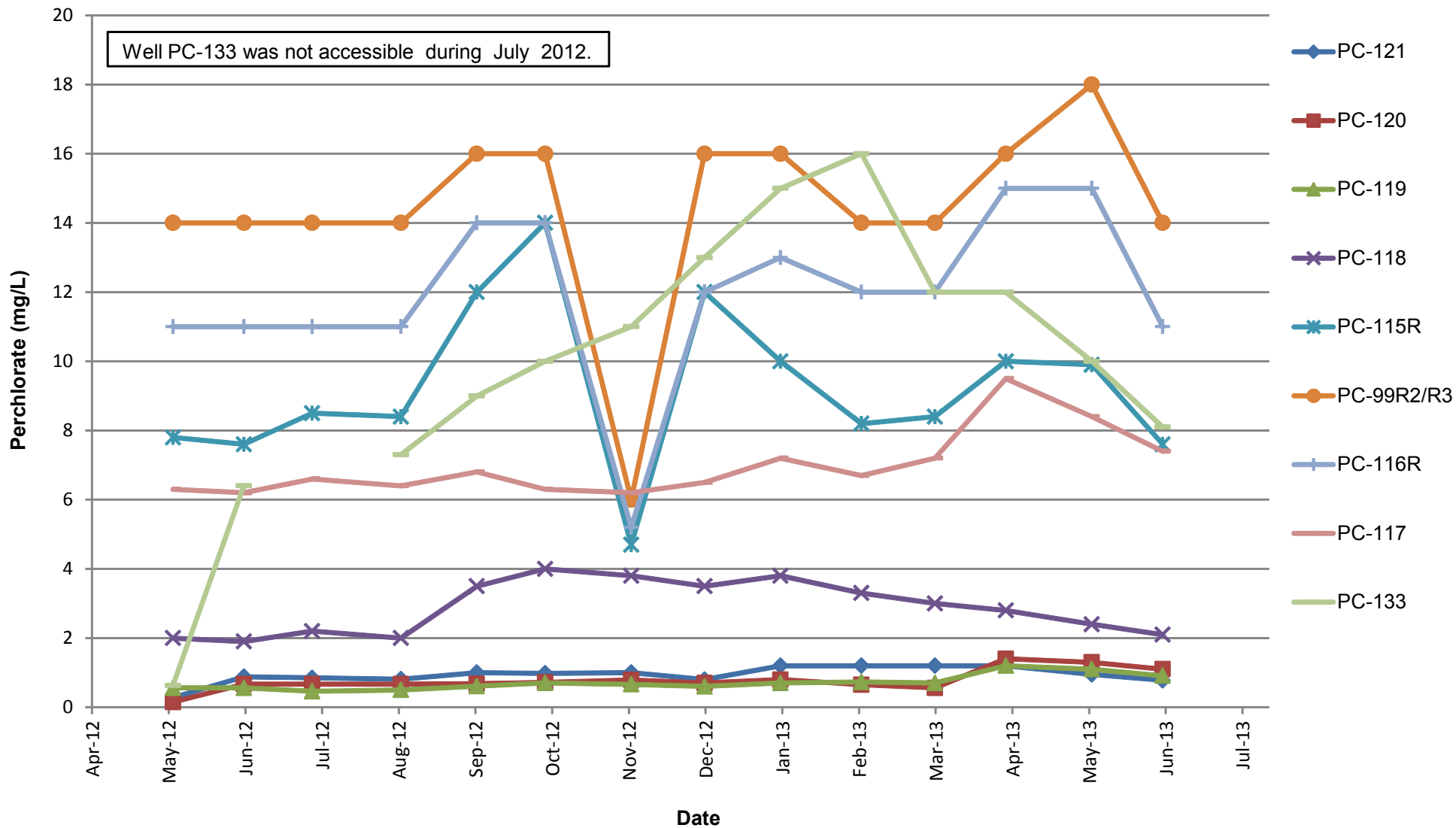
Approved:

Revised:



Seep Well Field Perchlorate Concentration Trends
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

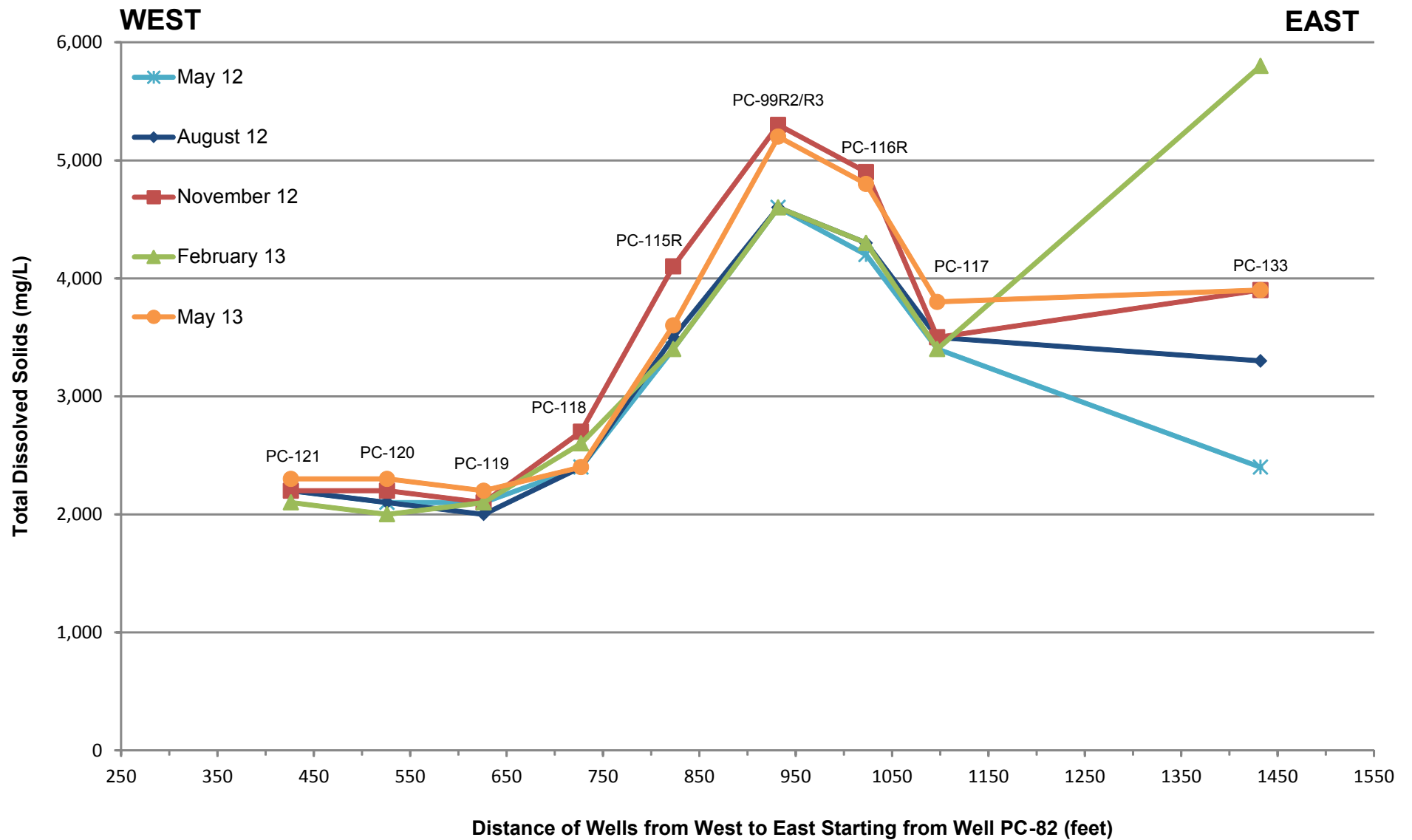
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Seep Well Field Perchlorate Concentration Trends, May 2012 - June 2013
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

26a



Seep Well Field Transect Total Dissolved Solids Concentrations
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

27

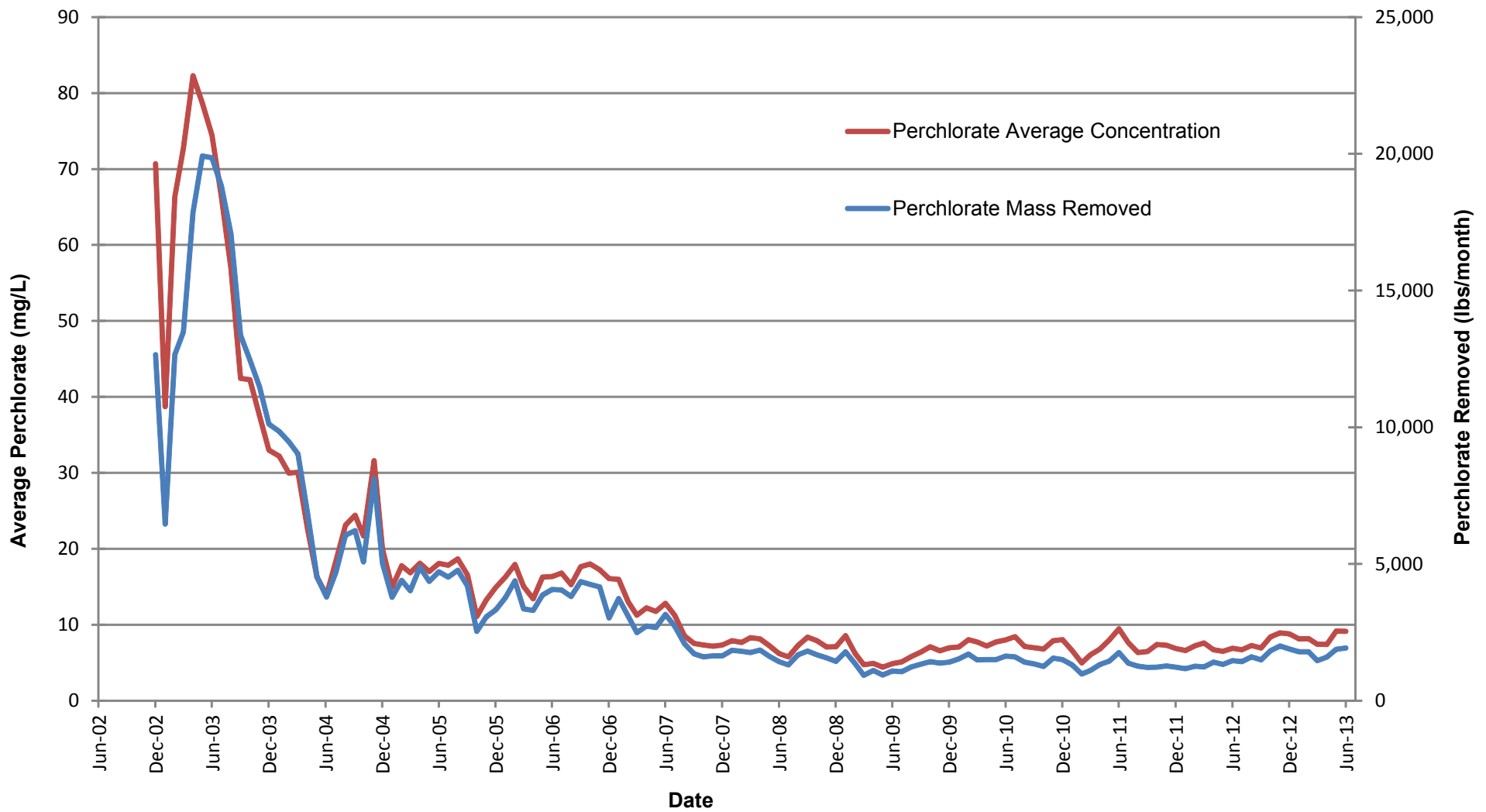
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Date: 8/30/13

Contract Number: 21-32100H

Approved:

Revised:

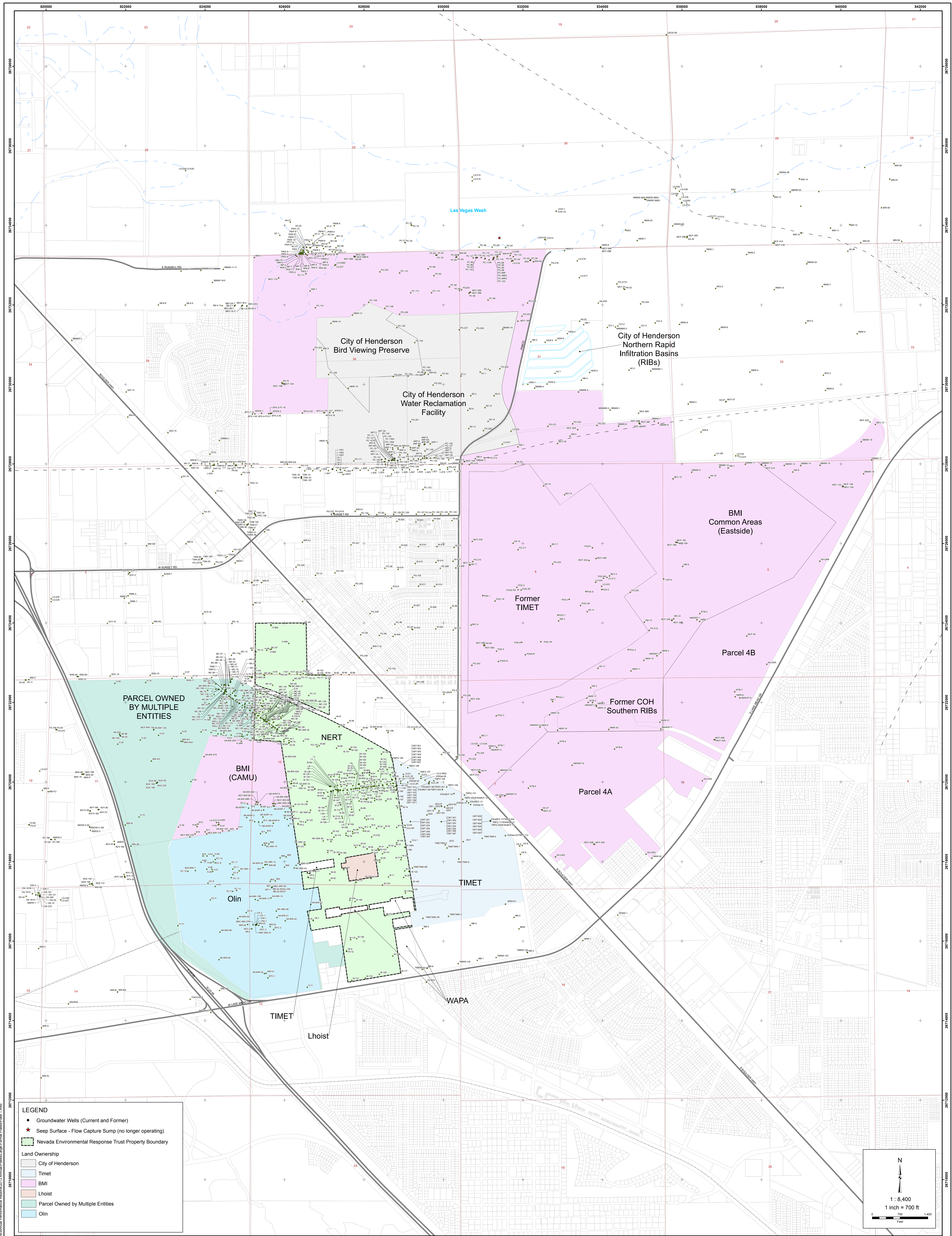


Seep Well Field Average Perchlorate Concentration and Mass Removed
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

Figure

28

Plates



LEGEND

- Groundwater Wells (Current and Former)
- ★ Seep Surface - Flow Capture Sump (no longer operating)
- ▭ Nevada Environmental Response Trust Property Boundary

Land Ownership

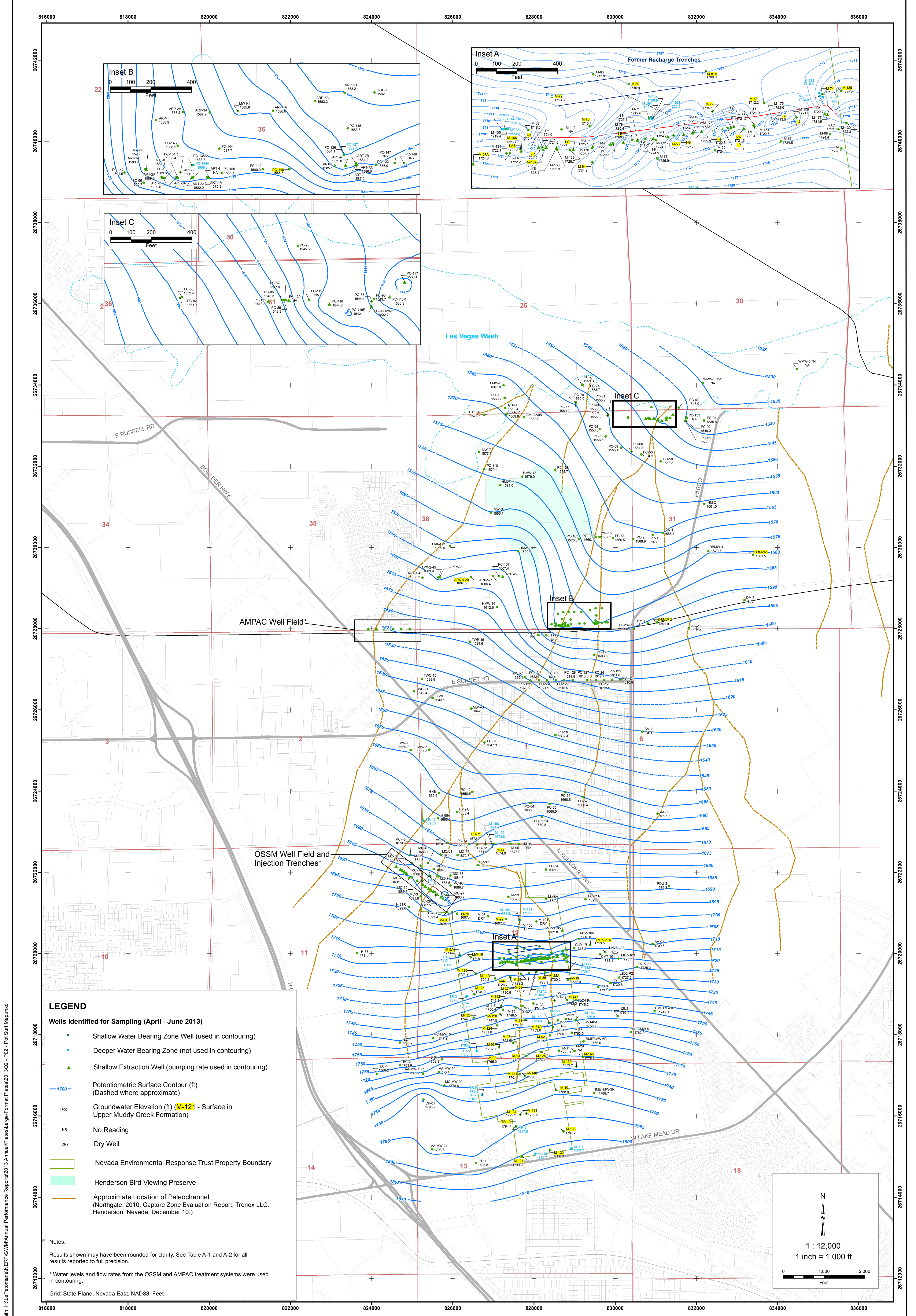
- City of Henderson
- Timet
- BMI
- Lhoist
- Parcel Owned by Multiple Entities
- Olin

N

1 : 8,400
1 inch = 700 ft

0 700 1400
Feet





LEGEND

Wells Identified for Sampling (April - June 2013)

- Shallow Water Bearing Zone Well (used in contouring)
- Deeper Water Bearing Zone (not used in contouring)
- ▲ Shallow Extraction Well (pumping rate used in contouring)
- Potentiometric Surface Contour (ft)
(Dashed where approximate)
- 1700 Groundwater Elevation (ft) (M-121 - Surface in Upper Muddy Creek Formation)
- NR No Reading
- DRY Dry Well
- ▭ Nevada Environmental Response Trust Property Boundary
- ▭ Henderson Bird Viewing Preserve
- Approximate Location of Paleochannel (Northgate, 2010, Capture Zone Evaluation Report, Tronox LLC, Henderson, Nevada, December 10.)

Notes:

Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

* Water levels and flow rates from the OSSM and AMPAC treatment systems were used in contouring.

Grid: State Plane, Nevada East, NAD83, Feet

Path: H:\LePerone\NERT\Annual Performance Reports\2013 Annual Performance Report\Plates\Large-Format\Plate2 - Pot Surf Map.mxd

Plate 2

**POTENTIOMETRIC SURFACE MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2013**

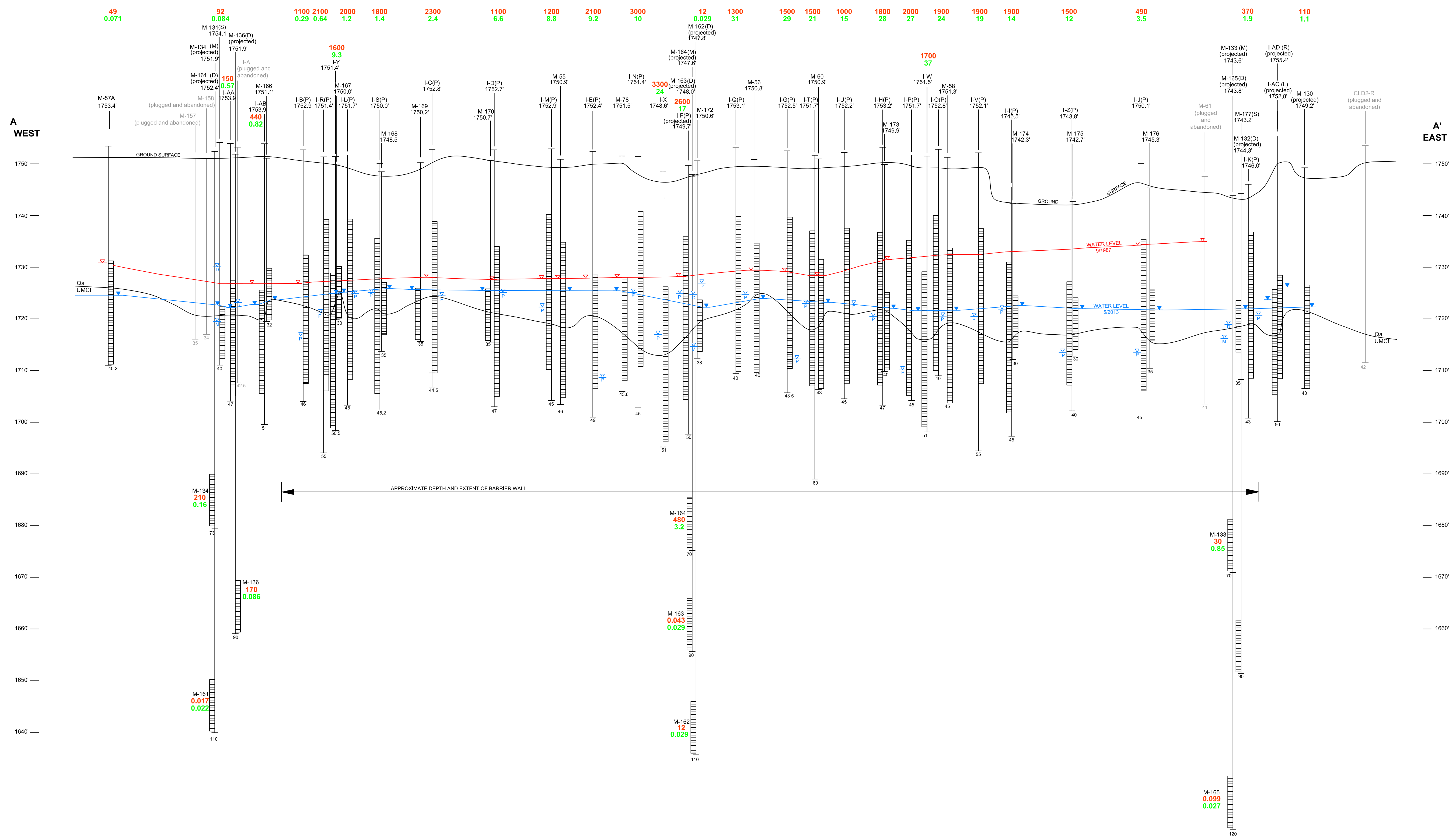
Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY:		NO.		REVISIONS		DATE:	BY:
EJK		0		GENERATE APPROVED MAP		8/28/2013	RS
DRAWN BY:							
EJK/RS							
CHECKED BY:							
KL/CS							
APPROVED BY:							
CJR							



DESIGNED BY:	EJK
DRAWN BY:	RS
CHECKED BY:	RS
APPROVED BY:	CJR
NO.	0
DESCRIPTION:	GENERATE APPROVED CROSS-SECTION
DATE:	8/30/13
BY:	RS

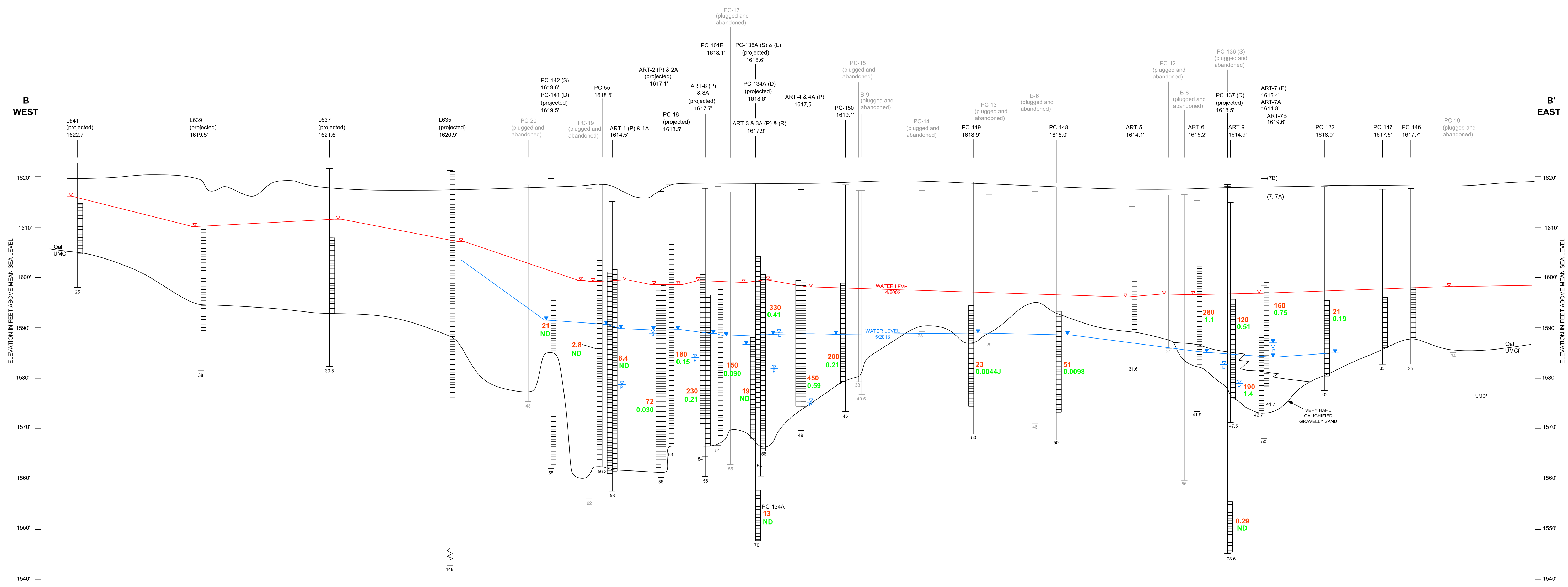
WEST-EAST HYDROGEOLOGIC CROSS SECTION A - A'
INTERCEPTOR WELL FIELD, SECOND QUARTER 2013
 Annual Performance Report
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada



LEGEND

- 1750.0' TOP OF CASING ELEVATION (P) PUMPING
- SCREENED INTERVAL (S) SHALLOW (M) MIDDLE (D) DEEP (R) RIGHT (L) LEFT
- BLANK CASING
- ALLUVIUM-MUDDY CREEK FM CONTACT (FT BGS)
- UMCI - UPPER MUDDY CREEK FORMATION
- Cal - ALLUVIUM TOTAL DEPTH (FT BGS)
- 1556.3' Boring
- 57'
- ▼ STATIC WATER LEVEL PRIOR TO INITIAL PUMPING
- ▼ GROUNDWATER LEVELS MEASURED MAY 2013
- ▼ PUMPING WELL MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)
- ▼ WATER LEVEL FROM DEEP WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)
- ▼ WATER LEVEL FROM MIDDLE WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)
- 1.9 PERCHLORATE CONCENTRATION AS OF MAY 2013 (mg/L)
- 1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2013 (mg/L)

NOTE:
 The shallow, middle, and deep screened interval designations are used to distinguish well screens in this cross section and do not refer to NDEP's definition of the water bearing zones (WBZs).



LEGEND

<p>Vertical Scale in Feet: 0, 5, 10</p> <p>Horizontal Scale in Feet: 0, 40, 80</p> <p>Well Log Example: boring 1556.3' 1750.0' TOP OF CASING ELEVATION (P) Pumping SCREENED INTERVAL (S) SHALLOW (M) MIDDLE (D) DEEP (R) RIGHT (L) LEFT BLANK CASING ALLUVIUM-MUDDY CREEK FM CONTACT (FT BGS) UMCf - UPPER MUDDY CREEK FORMATION Qal - ALLUVIUM TOTAL DEPTH (FT BGS) 57</p>	<p>▼ STATIC WATER LEVEL PRIOR TO INITIAL PUMPING</p> <p>▼ GROUNDWATER LEVELS MEASURED MAY 2013</p> <p>▼ PUMPING WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)</p> <p>▼ WATER LEVEL FROM DEEP WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)</p>	<p>1.9 PERCHLORATE CONCENTRATION AS OF MAY 2013 (mg/L)</p> <p>1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2013 (mg/L)</p> <p>J ESTIMATED CONCENTRATION</p> <p>ND NOT DETECTED ABOVE SAMPLE QUANTITATION LIMIT (SQL)</p>
--	--	--

NOTES:

Water level measurements were not collected in well ART-4 during May 2013.

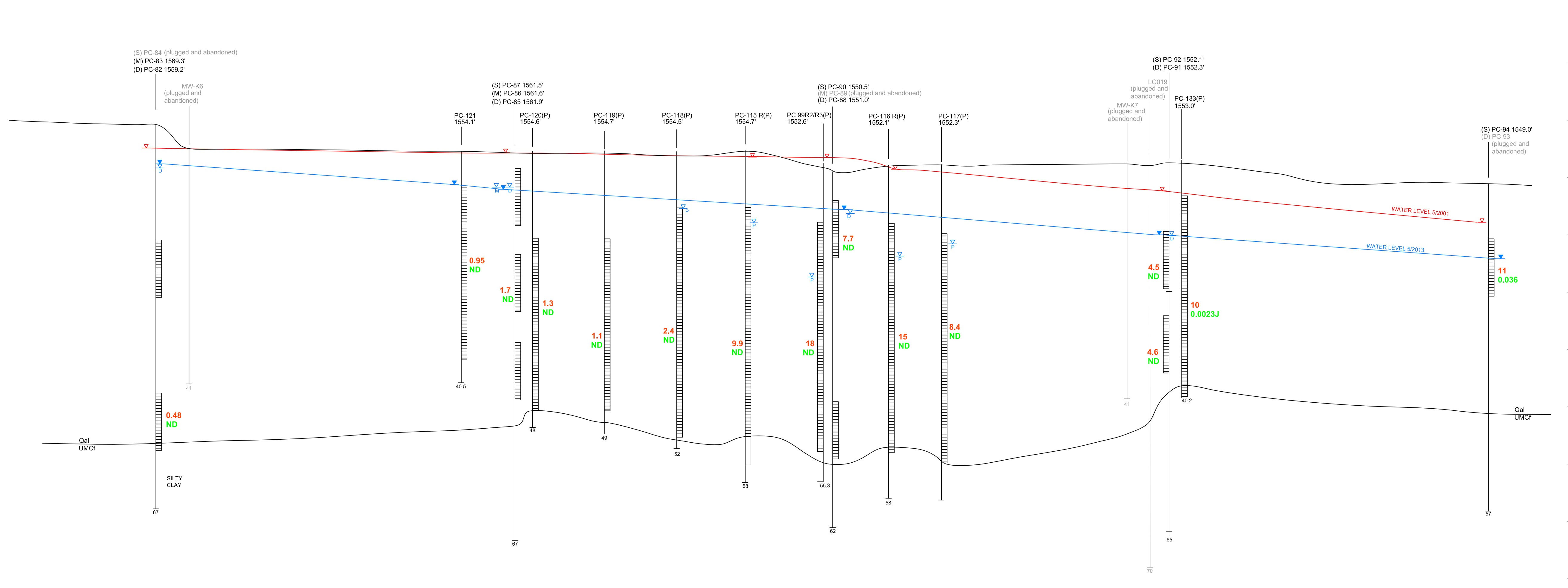
The shallow, middle, and deep screened interval designations are used to distinguish well screens in this cross section and do not refer to NDEP's definition of the water bearing zones (WBZs).

DESIGNED BY:	EJK
DRAWN BY:	RS
CHECKED BY:	RS
APPROVED BY:	CJR
NO.	0
REVISIONS:	
DATE:	8/30/13
BY:	RS
DESCRIPTION:	GENERATE APPROVED CROSS-SECTION

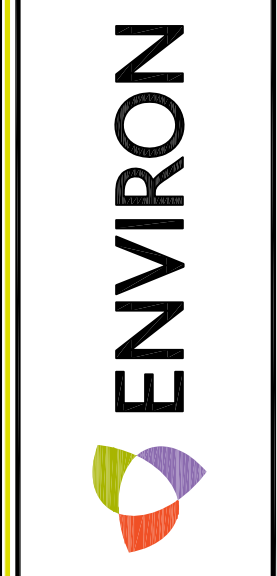
WEST-EAST HYDROGEOLOGIC CROSS SECTION B - B'
ATHENS ROAD WELL FIELD, SECOND QUARTER 2013
 Annual Performance Report
 Nevada Environmental Response Trust (NERT) Site
 Henderson, Nevada

C
WEST

ELEVATION IN FEET ABOVE MEAN SEA LEVEL
1570 —
1560 —
1550 —
1540 —
1530 —
1520 —
1510 —
1500 —
1490 —
1480 —



C'
EAST



DESIGNED BY:	EJK	DRAWN BY:	RS	CHECKED BY:	RS	APPROVED BY:	CJR	
NO.	0	GENERATE APPROVED CROSS-SECTION					DATE:	8/30/13
REVISIONS								
DESCRIPTION:								
GENERATE APPROVED CROSS-SECTION								
DATE:								
BY:								
RS								

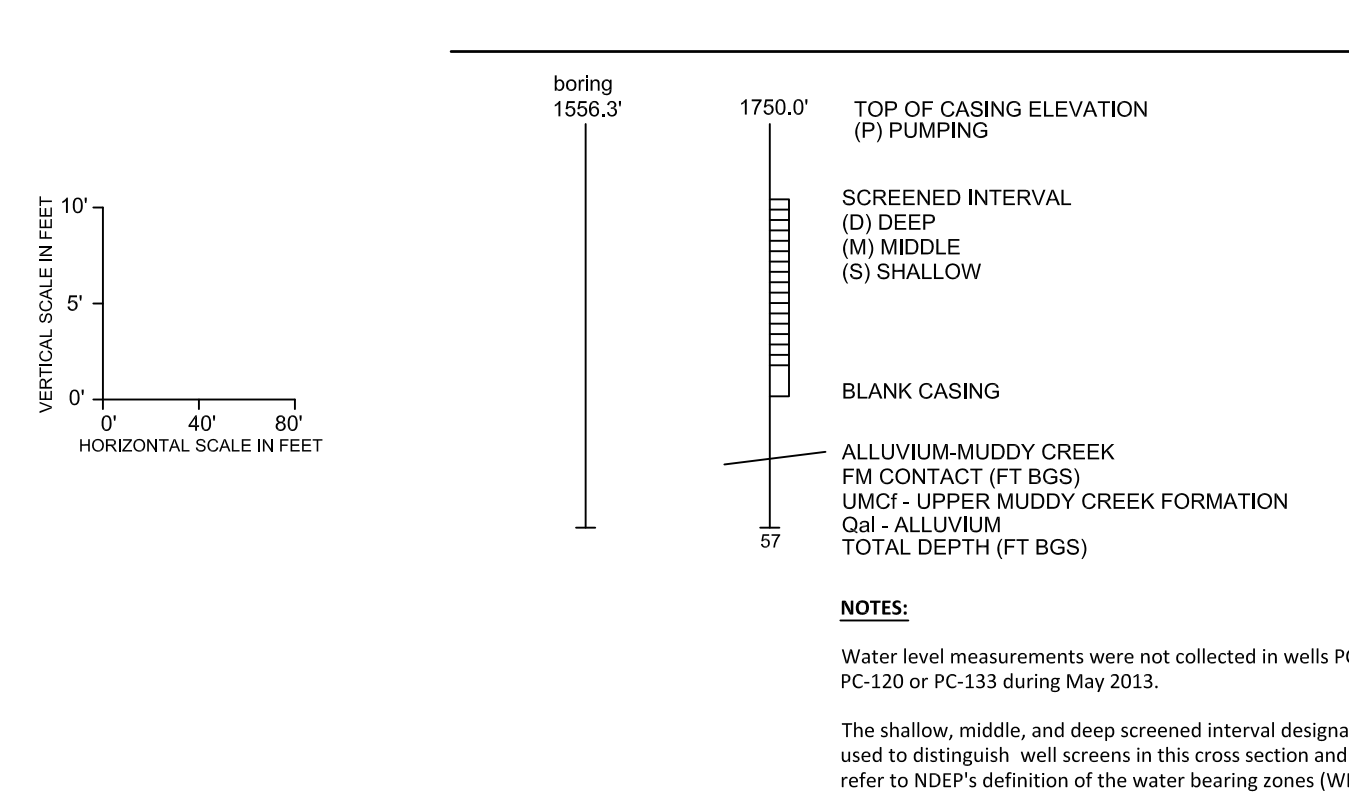
WEST-EAST HYDROGEOLOGIC CROSS SECTION C - C'
SEEP WELL FIELD, SECOND QUARTER 2013

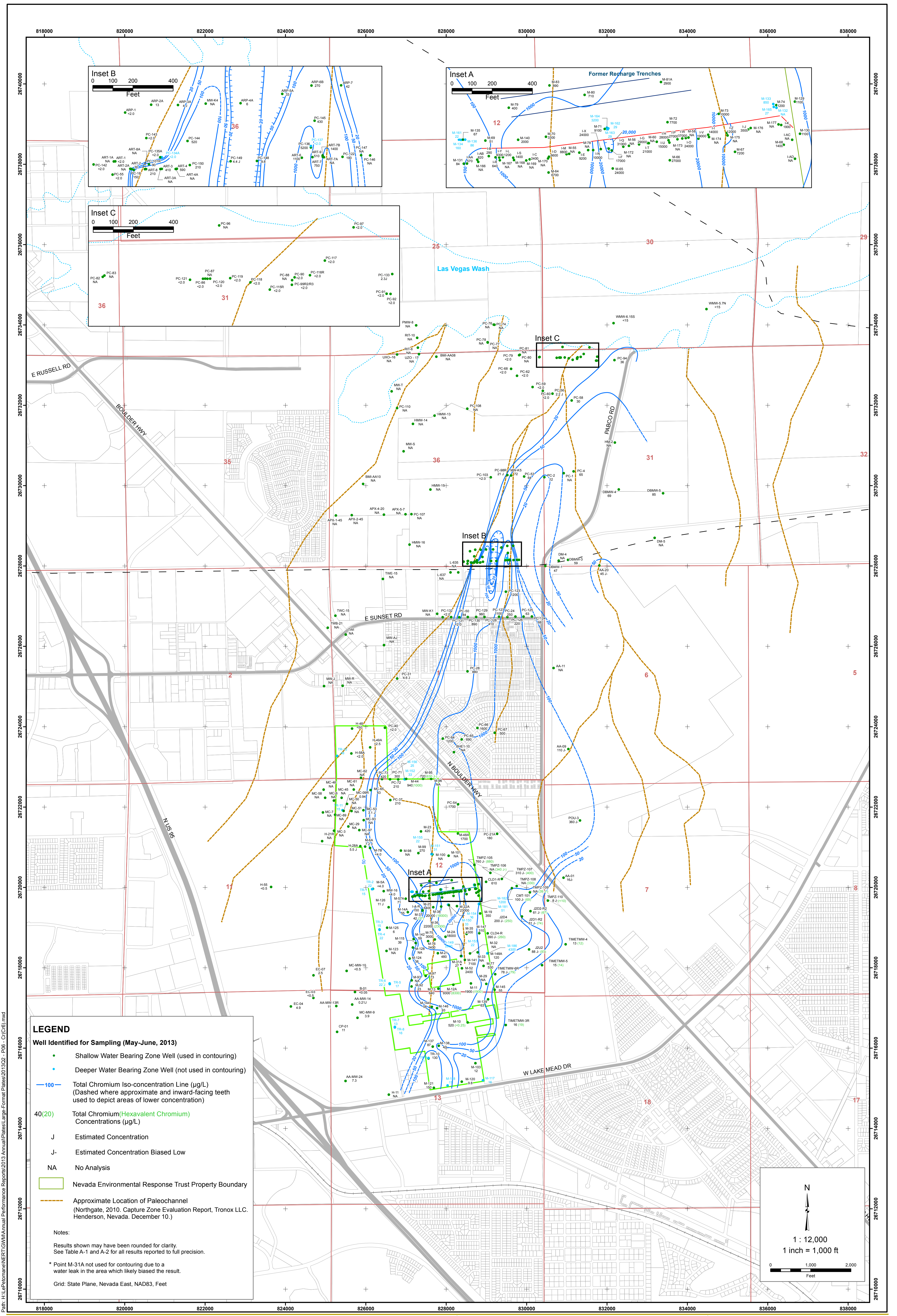
Annual Performance Report
Nevada Environmental Response Trust (NERT) Site
Henderson, Nevada

Plate 5
PROJECT: 21-32100H
PROJECT NO. 21-32100H

LEGEND

	STATIC WATER LEVEL PRIOR TO INITIAL PUMPING		1.9 PERCHLORATE CONCENTRATION AS OF MAY 2013 (mg/L)
	GROUNDWATER LEVELS MEASURED MAY 2013		1.9 TOTAL CHROMIUM CONCENTRATION AS OF MAY 2013 (mg/L)
	PUMPING WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)		J ESTIMATED CONCENTRATION
	WATER LEVEL FROM DEEP WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)		ND NOT DETECTED ABOVE THE SAMPLE QUANTIFICATION LIMIT (SOL)
	WATER LEVEL FROM MIDDLE WELL, MAY 2013 (NOT USED FOR INTERPOLATING WATER LEVEL)		





LEGEND

- Shallow Water Bearing Zone Well (used in contouring)
- Deeper Water Bearing Zone Well (not used in contouring)
- 100— Total Chromium Iso-concentration Line (µg/L)
(Dashed where approximate and inward-facing teeth used to depict areas of lower concentration)
- 40(20) Total Chromium(Hexavalent Chromium) Concentrations (µg/L)
- J Estimated Concentration
- J- Estimated Concentration Biased Low
- NA No Analysis
- ▭ Nevada Environmental Response Trust Property Boundary
- Approximate Location of Paleochannel (Northgate, 2010. Capture Zone Evaluation Report, Tronox LLC. Henderson, Nevada. December 10.)

Notes:

Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

* Point M-31A not used for contouring due to a water leak in the area which likely biased the result.

Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 12,000
1 inch = 1,000 ft

Path: H:\L\Permanent\Annual Performance Reports\2013 Annual Performance Report\Plates\201302_P06_Cr(Cr6).mxd

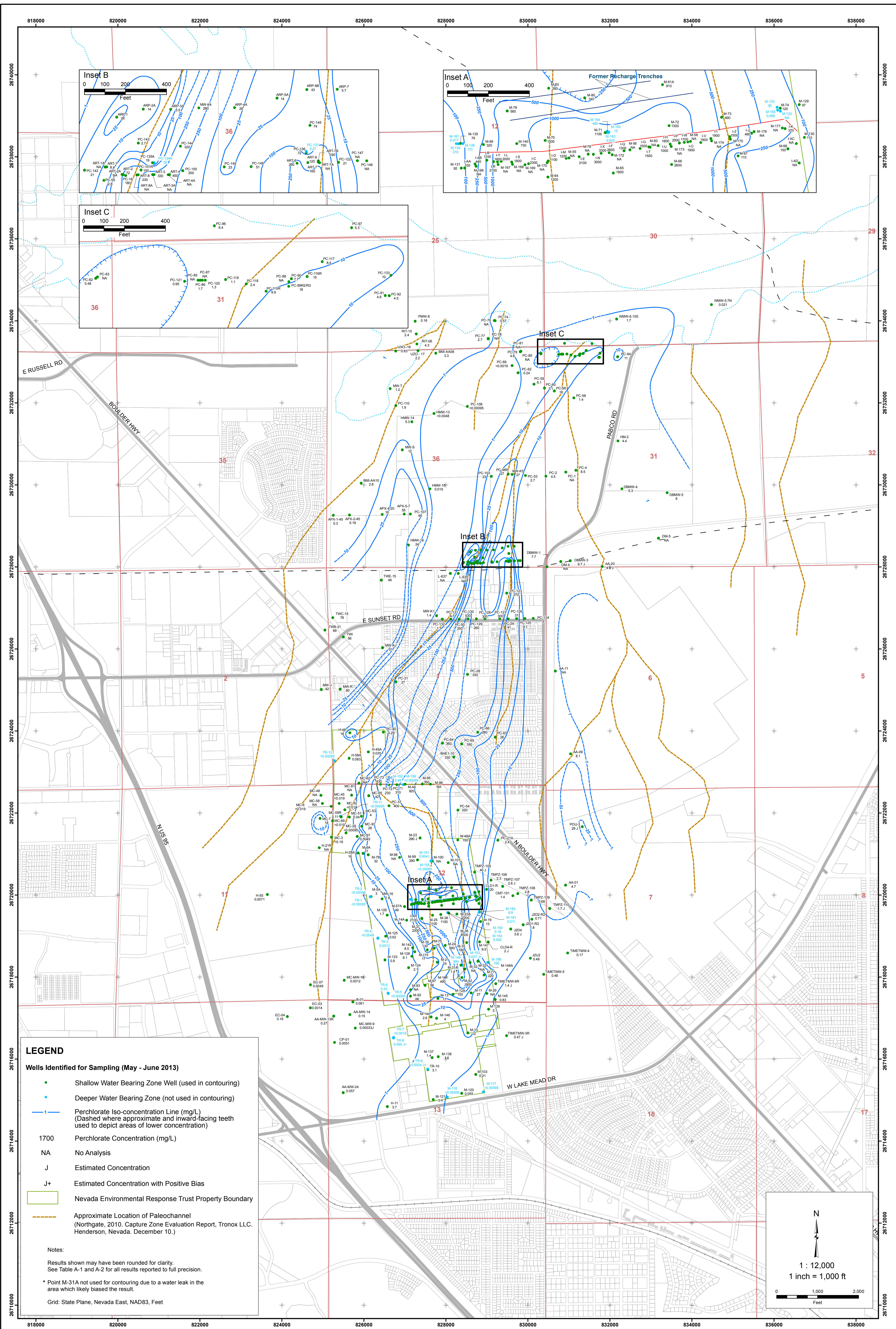
Plate
6
PROJECT: 21-32100H

**GROUNDWATER TOTAL CHROMIUM MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2013**

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY:		REVISIONS		
EJK	NO.	DESCRIPTION:	DATE:	BY:
EJK/RS	0	GENERATE APPROVED MAP	8/30/2013	AS/RS
EJK/RS				
EJK/RS				
EJK/RS				





LEGEND

- Shallow Water Bearing Zone Well (used in contouring)
- Deeper Water Bearing Zone (not used in contouring)
- Perchlorate Iso-concentration Line (mg/L)
(Dashed where approximate and inward-facing teeth used to depict areas of lower concentration)
- 1700 Perchlorate Concentration (mg/L)
- NA No Analysis
- J Estimated Concentration
- J+ Estimated Concentration with Positive Bias
- ▭ Nevada Environmental Response Trust Property Boundary
- Approximate Location of Paleochannel (Northgate, 2010. Capture Zone Evaluation Report, Tronox LLC. Henderson, Nevada. December 10.)

Notes:

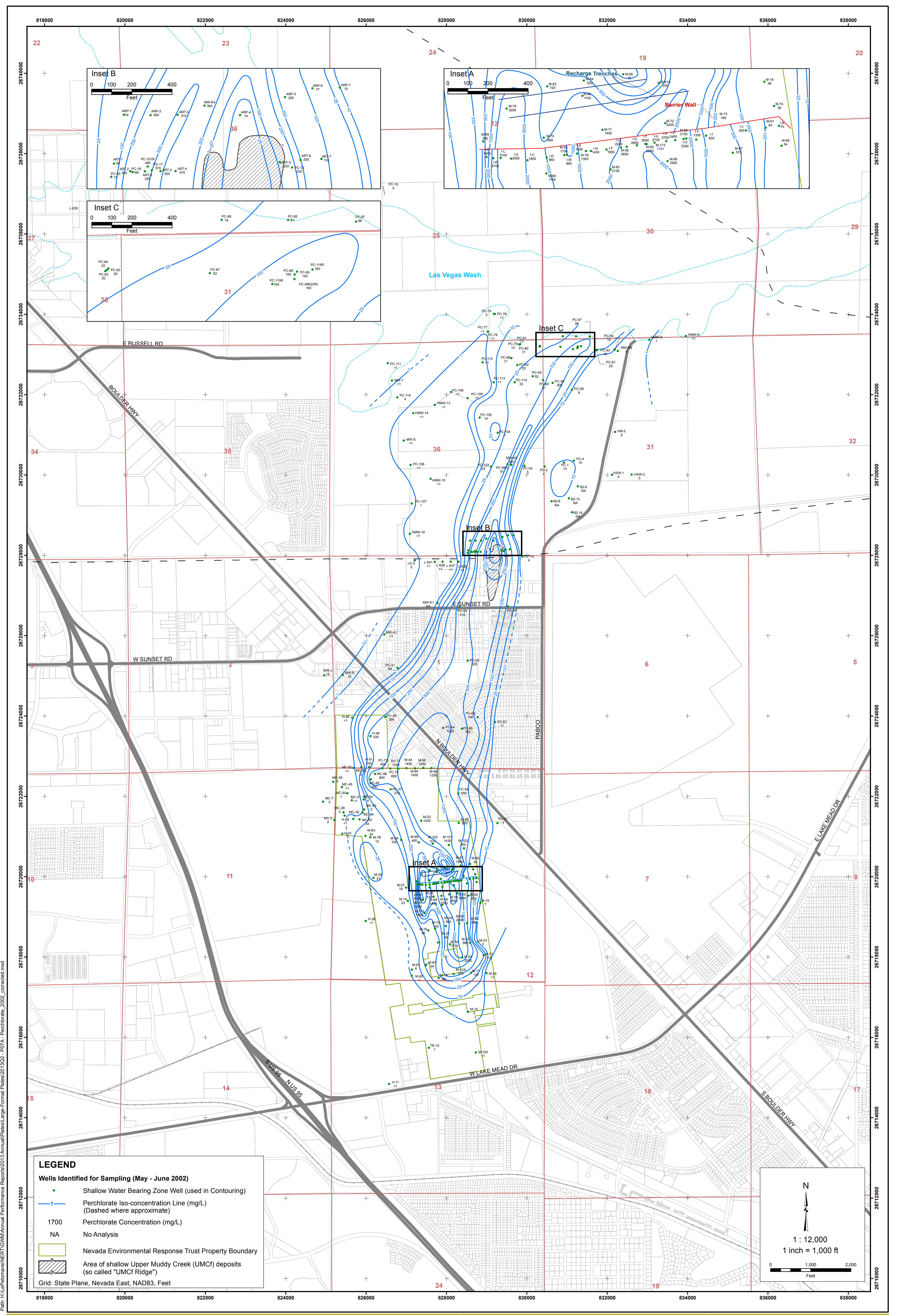
Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

* Point M-31A not used for contouring due to a water leak in the area which likely biased the result.

Grid: Slate Plane, Nevada East, NAD83, Feet

DESIGNED BY:		NO.		REVISIONS		DATE:	BY:
EJK		0		GENERATE APPROVED MAP		8/29/2013	AS/RS
DRAWN BY:							
EJK/RS							
CHECKED BY:							
KL/EL							
APPROVED BY:							
CJR/EJK							





LEGEND

- Wells Identified for Sampling (May - June 2002)
 - Shallow Water Bearing Zone Well (used in Contouring)
 - Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
 - 1700 Perchlorate Concentration (mg/L)
 - NA No Analysis
- Nevada Environmental Response Trust Property Boundary
- ▨ Area of shallow Upper Muddy Creek (UMCf) deposits (so called "UMCf Ridge")
- Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 12,000
1 inch = 1,000 ft

0 1,000 2,000
Feet

Path: H:\Performance\NERT\GMM\Annual Performance Reports\2013\Annual\Plates\Large-Format\Plates\201302_P07A - Perchlorate_2002_corrected.mxd

Plate
7a

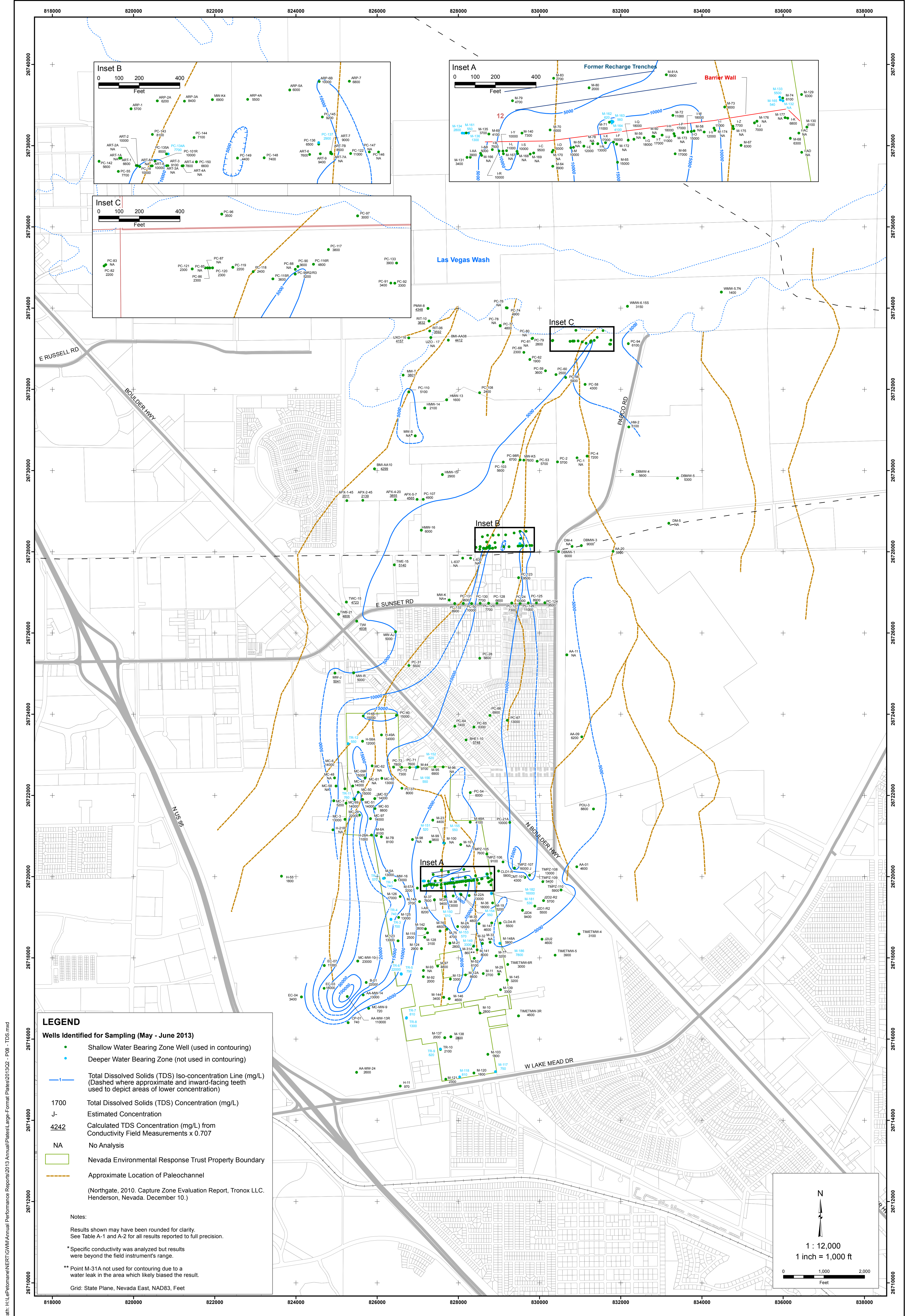
**GROUNDWATER PERCHLORATE MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2002**

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY:		NO.		REVISIONS		DATE:	BY:
EJK		0		GENERATE APPROVED MAP		8/30/2013	AS/RS
DRAWN BY:							
CHECKED BY:							
APPROVED BY:							
CJR/EJK							



PROJECT: 21-32100H



Path: H:\Pelomane\NERT\GMM\Annual Performance Reports\2013 Annual Performance Reports\Large-Format\Plates\2013-02 - Plate - TDS.mxd

LEGEND

Wells Identified for Sampling (May - June 2013)

- Shallow Water Bearing Zone Well (used in contouring)
- Deeper Water Bearing Zone (not used in contouring)
- Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate and inward-facing teeth used to depict areas of lower concentration)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- J- Estimated Concentration
- 4242 Calculated TDS Concentration (mg/L) from Conductivity Field Measurements x 0.707
- NA No Analysis
- ▭ Nevada Environmental Response Trust Property Boundary
- - - Approximate Location of Paleochannel

(Northgate, 2010. Capture Zone Evaluation Report, Tronox LLC. Henderson, Nevada. December 10.)

Notes:

Results shown may have been rounded for clarity. See Table A-1 and A-2 for all results reported to full precision.

* Specific conductivity was analyzed but results were beyond the field instrument's range.

** Point M-31A not used for contouring due to a water leak in the area which likely biased the result.

Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 12,000
1 inch = 1,000 ft

0 1,000 2,000
Feet

Plate
8
PROJECT: 21-32100H

**GROUNDWATER TOTAL DISSOLVED SOLIDS MAP
SHALLOW WATER-BEARING ZONE
SECOND QUARTER 2013**

Annual Performance Report
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY:		NO.		REVISIONS		DATE:	BY:
EJK		0		GENERATE APPROVED MAP		8/29/2013	AS/RS
DRAWN BY:							
CHECKED BY:							
APPROVED BY:							
CJR/EJK							



Appendix A

Groundwater Elevations and Analytical Data Tables

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
AA-01	05/09/12	1708.42					2.5	4,200
	05/07/13	1709.78					4.7	4,600
AA-11	05/08/12	Dry						
	05/19/13	Dry						
ARP-1	04/12/12	1588.49					18	5,800
	05/22/12	1588.55		0.00096 J			19	5,600
	06/21/12	1588.56					17	5,700
	07/11/12	1588.53					18	5,700
	08/14/12	1588.94		0.0018 J			20	5,800
	09/11/12	1589.42					18	5,600
	10/09/12						21	5,700
	10/10/12	1589.79						
	11/14/12	1589.97		0.0018 J			22	5,600
	12/05/12	1592.70					24	5,800
	01/16/13	1589.32					22	5,600
	02/12/13	1589.10					23	5,500
	03/12/13	1588.95					24	5,500
	04/09/13	1588.81					25	5,500
05/23/13	1588.86			<0.0020		28	5,700	
06/10/13						27	5,700	
06/11/13	1589.11							
ARP-2A	04/12/12	1587.78					6.2	6,200
	05/23/12	1587.83		0.012 J			6.5	6,300
	06/21/12	1587.87					7.1	6,300
	07/10/12	1587.94					7.2	6,300
	08/14/12	1588.11		0.012 J			8.0	6,300
	09/11/12	1588.75					9.0	5,900
	10/10/12	1589.11					13	5,800
	11/14/12	1589.28		0.013 J			15	5,700
	12/06/12	1588.99					15	5,700
	01/17/13	1588.66					15	6,000
	02/13/13	1588.35					12	6,000
	03/13/13	1588.53					11	6,100
	04/10/13	1588.05					13	6,300
	05/23/13	1588.24			0.013		14	6,200
06/11/13	1588.47					13	6,500	
ARP-3A	04/12/12	1586.91					3.8	7,600
	05/23/12	1586.92		0.0035 J			3.7	8,000
	06/21/12	1586.93					3.5	8,000
	07/10/12	1586.88					3.8	8,100
	08/14/12	1587.17		0.0061 J			4.1	8,200
	09/11/12	1587.82					4.0	7,800
	10/10/12	1588.18					5.0	7,800
	11/14/12	1588.31		0.012 J			3.7	7,700
12/06/12	1588.07					3.8	8,000	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ARP-3A	01/17/13	1587.65					4.9	7,700
	02/13/13	1587.43					5.1	7,900
	03/13/13	1587.23					5.8	7,900
	04/10/13	1586.94					6.0	8,100
	05/23/13	1587.24		0.0040 J			5.5	8,400
	06/11/13	1587.50					5.4	8,400
ARP-4A	04/12/12	1585.20					26	4,300
	05/23/12	1585.61		0.0044 J			30	4,800
	06/21/12	1585.74					31	4,800
	07/10/12	1585.75					28	4,600
	08/14/12	1585.98		0.0041 J			28	4,900
	09/11/12	1586.74					30	4,800
	10/10/12	1586.99					38	5,200
	11/14/12	1587.12		0.012 J			26	5,200
	12/06/12	1586.97					26	5,400
	01/17/13	1586.47					31	5,400
	02/13/13	1586.27					29	5,300
	03/13/13	1586.07					28	5,100
	04/10/13	1586.09					30	5,000
	05/23/13	1586.04			0.0060			28
06/11/13	1586.30						32	5,400
ARP-5A	04/12/12	1582.90					17	5,000
	05/23/12	1582.78		0.042			18	5,900
	06/21/12	1582.79					19	5,900
	07/10/12	1582.79					17	5,800
	08/14/12	1582.92		0.031			15	5,600
	09/11/12	1583.58					11	4,900
	10/10/12	1584.00					13	5,300
	11/14/12	1584.25		0.046			11	5,100
	12/06/12	1584.08					12	5,200
	01/17/13	1583.68					13	5,300
	02/13/13	1583.42					13	5,500
	03/13/13	1583.28					12	5,400
	04/10/13	1583.24					16	5,600
	05/23/13	1583.19			0.033			14
06/11/13	1583.29						16	6,300
ARP-6B	04/12/12	1581.51					37	8,300
	05/23/12	1582.72		0.27			52	9,800
	06/21/12	1581.97					46	9,300
	07/10/12	1584.49					53	9,400
	08/14/12	1582.76		0.34			56	9,600
	09/11/12	1583.44					46	9,000
	10/10/12	1583.95					38	9,100
	11/14/12	1584.16		0.22			32	9,500
12/06/12	1584.01					22	8,800	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ARP-6B	01/17/13	1583.61					34	8,900
	02/13/13	1583.36					34	8,100
	03/13/13	1583.21					38	8,700
	04/10/13	1583.09					42	8,800
	05/23/13	1583.18		0.27			43	10,000
	06/11/13	1583.26					42	9,400
ARP-7	04/12/12	1581.50					4.4	5,800
	05/23/12	1582.28		0.036			5.1	5,900
	06/21/12	1582.24					4.7	5,900
	07/10/12	1582.40					4.2	5,700
	08/14/12	1582.44		0.031			4.6	5,900
	09/11/12	1582.89					4.7	5,800
	10/10/12	1583.55					4.8	5,900
	11/14/12	1583.80		0.037			6.6	6,100
	12/06/12	1583.65					4.3	6,000
	01/17/13	1583.22					4.4	5,500
	02/13/13	1583.04					4.3	5,500
	03/13/13	1582.77					3.6	4,500
	04/10/13	1582.55					5.8	6,000
	05/23/13	1582.77			0.042		5.7	6,800
06/11/13	1582.88					6.8	7,000	
ART-1	04/10/12	1588.87					4.3	6,200
	05/08/12	1588.99		0.00096 J			4.8	6,400
	06/05/12	1584.01					4.9	6,300
	07/02/12	1584.64					5.0	6,300
	08/06/12	1583.75		0.0016 J			5.5	6,200
	09/05/12	1583.93					5.9	6,200
	10/02/12						6.2	6,300
	10/10/12	1583.97						
	11/05/12	1583.24		0.0029 J			5.1	6,200
	12/04/12						5.8	6,200
	12/10/12	1583.37						
	01/03/13	1584.55		0.0013 J			6.5	6,200
	02/04/13	1588.87		0.0021 J			5.7	6,200
	03/05/13	1584.42					5.9	6,500
	04/02/13						7.7	6,100
	04/15/13	1577.91						
05/06/13				<0.0020		8.4	6,600	
05/07/13	1578.77							
06/03/13	1588.43					6.1	6,500	
ART-1A	04/10/12	1590.50						
	05/08/12	1590.42						
	06/05/12	1589.76						
	07/02/12	1589.96						
	08/06/12	1589.79						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-1A	09/05/12	1589.48						
	10/10/12	1589.37						
	11/05/12	1591.00						
	12/10/12	1590.95						
	01/03/13	1590.31						
	02/04/13	1590.22						
	03/05/13	1590.52						
	04/15/13	1589.99						
	05/07/13	1589.85						
06/03/13	1590.40							
ART-2	04/10/12	1589.33					54	9,400
	05/08/12	1589.09		0.026			64	9,700
	06/05/12	1588.66					58	9,500
	07/02/12	1589.07					60	9,500
	08/06/12	1588.70		0.029			57	9,400
	09/05/12	1588.58					61	9,400
	10/02/12						61	9,700
	10/10/12	1588.50						
	11/05/12	1590.06		0.036			55	9,500
	12/04/12						63	9,400
	12/10/12	1589.59						
	01/03/13	1589.77		0.039			70	9,500
	02/04/13	1589.30		0.039			65	9,500
	03/05/13	1590.88					68	9,600
	04/02/13						64	9,400
	04/15/13	1588.96						
05/06/13			0.030			72	10,000	
05/07/13	1588.95							
06/03/13	1589.33					60	9,800	
ART-2A	04/10/12	1590.10						
	05/08/12	1590.02						
	06/05/12	1589.39						
	07/02/12	1589.86						
	08/06/12	1589.45						
	09/05/12	1589.71						
	10/10/12	1589.60						
	11/05/12	1590.76						
	12/10/12	1590.91						
	01/03/13	1590.21						
	02/04/13	1590.08						
	03/05/13	1590.14						
	04/15/13	1589.67						
05/07/13	1589.58							
06/03/13	1590.08							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-3	04/10/12	1587.39					300	8,600
	05/08/12	1587.47		0.37			300	8,900
	06/05/12	1586.54					320	8,700
	07/02/12	1586.66					300	8,900
	08/06/12	1586.45		0.39			280	8,900
	09/05/12	1586.63					300	8,700
	10/02/12						300	8,600
	10/10/12	1586.66						
	11/05/12	1587.77		0.40			260	8,800
	12/04/12						300	8,500
	12/10/12	1587.57						
	01/03/13	1587.73		0.42			300	8,400
	02/04/13	1587.06		0.41			280	8,600
	03/05/13	1587.54					290	8,400
	04/02/13						300	8,500
	04/15/13	1586.67						
05/06/13			0.41			330	9,100	
05/07/13	1586.73							
06/03/13	1587.18					270	9,400	
ART-3A	04/10/12	1579.59						
	05/08/12	1579.39						
	06/05/12	1577.93						
	07/02/12	1578.00						
	08/06/12	1578.47						
	09/05/12	1578.43						
	10/10/12	1578.38						
	11/05/12	1580.51						
	12/10/12	1580.45						
	01/03/13	1579.81						
	02/04/13	1580.79						
	03/05/13	1580.45						
	04/15/13	1578.11						
	05/07/13	1581.95						
06/03/13	1581.61							
ART-4	04/10/12	1588.66					400	6,800
	05/08/12	1588.86		0.57			410	7,100
	06/05/12	1587.88					390	7,000
	07/02/12	1587.37					380	7,200
	08/06/12	1587.98		0.56			380	6,600
	09/05/12	1587.98					370	6,900
	10/02/12						390	7,100
	10/10/12	1587.89						
	11/05/12	1589.29		0.60			360	7,000
	12/04/12						370	6,900
12/10/12	1588.92							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-4	01/03/13	1588.89		0.60			390	6,200
	02/04/13	1589.24		0.60			370	6,800
	03/05/13	1588.79					370	6,600
	04/02/13						370	6,800
	05/06/13			0.59			450	7,800
	06/03/13						330	7,700
ART-4A	04/10/12	1574.37						
	05/08/12	1574.25						
	06/05/12	1573.95						
	07/02/12	1574.29						
	08/06/12	1575.20						
	09/05/12	1575.16						
	10/10/12	1575.36						
	11/05/12	1574.44						
	12/10/12	1574.50						
	01/03/13	1574.36						
	02/04/13	1574.50						
	03/05/13	1574.49						
	04/15/13	1575.19						
	05/07/13	1575.27						
06/03/13	1575.41							
ART-6	04/10/12	1584.97					76	6,800
	05/08/12	1585.17		1.2			300	6,900
	06/05/12	1584.74					57	6,600
	07/02/12	1584.78					54	6,700
	08/06/12	1583.24		0.24			54	6,400
	09/05/12	1584.29					52	6,800
	10/02/12						280	7,100
	10/10/12	1584.22						
	11/05/12	1580.71		1.4			260	7,200
	12/04/12						300	7,100
	12/10/12	1580.42						
	01/03/13	1581.04		1.3			280	6,600
	02/04/13	1582.40		1.3			250	6,400
	03/05/13	1583.06					200	6,500
	04/02/13						260	6,600
	04/15/13	1585.06						
	05/06/13			1.1			280	7,600
05/07/13	1585.13							
06/03/13	1584.97					160	7,400	
ART-7	04/10/12	1583.92					150	7,700
	05/08/12	1583.99		0.74			160	8,800
	06/05/12	1583.64					150	8,500
	07/02/12	1583.78					150	8,800
	08/06/12	1583.83		0.76			150	8,600

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-7	09/05/12	1583.88					140	9,100
	10/02/12						140	8,800
	10/10/12	1583.86						
	11/05/12	1582.04		0.73			130	8,700
	12/04/12						130	8,500
	12/10/12	1581.77						
	01/03/13	1581.47		0.70			150	8,200
	02/04/13	1581.59		0.77			150	8,300
	03/05/13	1584.35					150	8,300
	04/02/13						160	8,200
	04/15/13	1584.18						
	05/06/13				0.75		160	9,000
05/07/13	1587.04							
06/03/13	1584.30					130	8,800	
ART-7A	04/10/12	1583.26						
	05/08/12	1583.54						
	06/05/12	1581.53						
	07/02/12	1583.47						
	08/06/12	1582.02						
	09/05/12	1583.23						
	10/10/12	1583.46						
	11/05/12	1579.38						
	12/10/12	1578.88						
	01/03/13	1580.17						
	02/04/13	1580.93						
	03/05/13	1584.18						
	04/15/13	1581.71						
	05/07/13	1585.98						
06/03/13	1581.65							
ART-7B	04/10/12	1583.91						
	05/23/12	1583.74		1.2			270	7,700
	06/05/12	1583.72						
	07/02/12	1583.81						
	08/13/12	1584.62		1.1			230	8,100
	09/05/12	1584.22						
	09/11/12			1.1			250	8,000
	10/10/12	1584.42						
	11/14/12	1584.92		0.56			230	8,000
	12/10/12	1585.53						
	01/03/13	1584.90						
	02/13/13	1584.52					240	7,200
	03/13/13	1584.37					240	7,700
05/22/13	1584.20			1.4		190	8,500	
06/11/13	1584.16							

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-8	04/10/12	1585.58					210	9,500
	05/08/12	1585.48		0.20			220	9,700
	06/05/12	1584.10					210	9,500
	07/02/12	1584.16					200	9,800
	08/06/12	1584.38		0.20			200	9,700
	09/05/12	1584.35					210	9,600
	10/02/12						210	10,000
	10/10/12	1584.32						
	11/05/12	1585.87		0.22			190	9,700
	12/04/12						190	9,500
	12/10/12	1586.40						
	01/03/13	1585.83		0.23			220	9,300
	02/04/13	1584.88		0.23			210	9,400
	03/05/13	1585.96					210	9,500
	04/02/13						210	9,300
	04/15/13	1584.08						
05/06/13			0.21			230	10,000	
05/07/13	1584.13							
06/03/13	1589.38					170	10,000	
ART-8A	04/10/12	1588.51						
	05/08/12	1588.62						
	06/05/12	1588.57						
	07/02/12	1588.69						
	08/06/12	1588.60						
	09/05/12	1588.97						
	10/10/12	1588.81						
	11/05/12	1589.99						
	12/10/12	1590.11						
	01/03/13	1589.35						
	02/04/13	1589.20						
	03/05/13	1589.80						
	04/15/13	1588.88						
	05/07/13	1588.88						
06/03/13	1587.42							
ART-9	04/10/12	1581.40					250	7,000
	05/08/12	1581.29		1.2			330	6,900
	06/05/12	1574.17					290	7,000
	07/02/12	1574.20					300	7,200
	08/06/12	1573.81		1.2			280	7,000
	09/05/12	1574.28					290	7,300
	10/02/12						260	7,200
	10/10/12	1574.43						
	11/05/12	1574.03		1.2			270	7,000
	12/04/12						260	7,000
12/10/12	1574.39							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
ART-9	01/03/13	1574.87		1.2			250	6,800
	02/04/13	1576.97		1.2			270	6,400
	03/05/13	1578.76					260	6,600
	04/02/13						280	6,600
	04/15/13	1580.95						
	05/06/13			0.51			120	9,400
	05/07/13	1578.95						
	06/03/13	1580.03					230	7,300
CLD-1R	05/23/12	1712.98						
	05/23/13	1713.23		0.61			20	5,800
DM-4	05/08/12	Dry						
	05/09/13	Dry						
DM-5	05/08/12	Dry						
	05/09/13	Dry						
H-11	05/21/12	1795.78		0.19			0.042	1,100
	05/14/13	1795.79					3.7	970
H-28A	05/16/12	1692.31		0.053			<0.254	8,800
	08/07/12	1692.39						
	08/08/12			0.046			<0.0254	9,600
H-48	05/16/13	1693.38		0.0055 J			16	11,000
	05/09/12	1655.38		0.036 J			10	14,000
H-58A	05/08/13	1660.64		<0.050			18	15,000
	05/09/12	1666.92		0.0029 J			0.18	12,000
HM-2	05/08/13	1665.87		<0.0020			0.083	12,000
	05/17/12	1559.79					4.1	5,000
HMW-13	05/08/13	1561.00					4.4	5,100
	05/24/12	1578.47					0.045	1,400
HMW-14	05/07/13	1579.01					<0.0048	1,600
	05/24/12	1580.80					1.5	2,000
HMW-15	05/08/13	1580.98					5.3	2,100
	05/24/12	1599.47					0.038	2,800
HMW-16	05/08/13	1600.02					0.019	2,900
	05/17/12	1612.63					26	5,700
I-AA	05/07/13	1612.63					24	6,000
	04/17/12	1721.19						
	05/10/12	1721.15						
	06/20/12	1721.45						
	07/12/12	1721.42						
	08/07/12	1721.60						
	09/18/12	1721.53						
	10/11/12	1721.53						
	11/05/12	1722.71						
	12/13/12	1721.48						
	01/22/13	1722.48						
	02/04/13	1722.31						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-AA	03/18/13	1722.40						
	04/11/13	1722.33						
	05/06/13	1722.17						
	06/12/13	1722.38						
	06/25/13			0.57			150	3,900
I-AB	04/17/12	1721.51						
	05/10/12	1720.72						
	06/20/12	1720.58						
	07/12/12	1721.49						
	08/07/12	1720.52						
	09/18/12	1720.59						
	10/11/12	1720.48						
	11/05/12	1723.38						
	12/13/12	1720.53						
	01/22/13	1723.34						
	02/04/13	1722.67						
	03/18/13	1722.59						
	04/17/13	1722.77						
	05/06/13	1722.77						
06/12/13	1722.84							
06/25/13				0.82			440	5,000
I-AC	04/17/12	1722.31						
	05/13/12	1722.31						
	06/20/12	1722.25						
	07/12/12	1722.26						
	08/08/12	1722.20						
	09/18/12	1722.16						
	10/11/12	1721.75						
	11/07/12	1723.62						
	12/13/12	1722.22						
	01/22/13	1722.19						
	02/06/13	1723.90						
	03/18/13	1723.93						
	04/11/13	1723.53						
	05/13/13	1723.71						
06/12/13	1723.36							
I-AD	04/17/12	1724.59						
	05/13/12	1724.67						
	06/20/12	1724.60						
	07/12/12	1725.17						
	08/08/12	1724.60						
	09/18/12	1724.57						
	10/11/12	1724.52						
	11/07/12	1725.84						
12/13/12	1724.29							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-AD	01/22/13	1724.33						
	02/06/13	1726.28						
	03/18/13	1726.24						
	04/11/13	1725.97						
	05/06/13	1726.18						
	06/12/13	1725.44						
I-AR	04/17/12	1715.05						
	05/10/12	1714.82		1.4			2,200	5,100
	06/20/12	1715.04						
	07/12/12	1714.86						
	08/06/12	1716.01		0.61			2,000	5,700
	09/18/12	1721.10						
	10/11/12	1720.95						
	11/05/12	1729.47		0.11			1,400	6,300
	12/13/12	1721.23						
	01/22/13	1720.65						
	02/04/13	1722.65		0.22			2,100	5,900 J-
	03/18/13	1722.50						
	04/17/13	1728.13						
	05/06/13	1728.72		0.15			2,100	8,200
06/12/13	1729.66							
I-B	04/17/12	1711.57						
	05/10/12	1709.90		0.97			480	4,200
	06/20/12	1709.58						
	07/12/12	1712.66						
	08/06/12	1709.94		0.16			440	4,100
	09/18/12	1709.87						
	10/11/12	1710.03						
	11/05/12	1716.47		0.36			730	7,800
	12/13/12	1710.06						
	01/22/13	1710.87						
	02/04/13	1710.90		0.15			860	5,200
	03/14/13	1712.82						
	04/11/13	1713.34						
	05/06/13	1716.69		0.29			1,100	7,500
06/13/13	1716.62							
I-C	04/17/12	1709.65						
	05/10/12	1709.50		3.1			860	6,300
	06/20/12	1710.13						
	07/12/12	1710.77						
	08/06/12	1710.26		3.1			790	6,300
	09/18/12	1710.64						
	10/11/12	1711.55						
	11/05/12	1724.27		2.7			750	6,600
12/13/12	1710.57							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-C	01/22/13	1711.55						
	02/04/13	1711.97		2.4			1,300	7,500
	03/14/13	1712.41						
	04/17/13	1724.16						
	05/06/13	1724.47		2.4			2,300	9,500
	06/12/13	1724.77						
I-D	04/17/12	1707.51						
	05/10/12	1706.70		7.4			730	7,400
	06/20/12	1706.98						
	07/12/12	1707.14						
	08/06/12	1707.17		6.7			630	7,300
	09/18/12	1707.17						
	10/11/12	1707.22						
	11/05/12	1723.68		6.4			640	7,500
	12/13/12	1707.22						
	01/22/13	1709.36						
	02/04/13	1709.26		6.5			840	7,400
	03/14/13	1710.77						
	04/17/13	1724.91						
	05/06/13	1725.11		6.6			1,100	9,300
06/12/13	1725.67							
I-E	04/17/12	1708.54						
	05/10/12	1707.74		10			710	8,600
	06/20/12	1708.07						
	07/12/12	1708.16						
	08/06/12	1708.13		10			650	8,800
	09/18/12	1709.15						
	10/11/12	1709.11						
	11/05/12	1708.36		9.5			1,800	11,000
	12/13/12	1709.09						
	01/22/13	1709.16						
	02/04/13	1709.31		8.9			2,400	11,000
	03/14/13	1710.20						
	04/11/13	1711.21						
	05/06/13	1708.66		9.2			2,100	12,000
06/12/13	1707.96							
I-F	04/17/12	1716.00						
	05/10/12	1716.97		19			1,200	12,000
	06/20/12	1708.93						
	07/12/12	1716.25						
	08/06/12	1709.97		22			940	13,000
	09/18/12	1712.41						
	10/11/12	1712.37						
	11/05/12	1722.58		21			1,800	15,000
12/13/12	1712.60							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-F	01/22/13	1711.43						
	02/04/13	1708.58		16			2,700	14,000
	03/14/13	1709.52						
	04/17/13	1724.85						
	05/06/13	1724.94		17			2,600	15,000
	06/12/13	1724.88						
I-G	04/17/12	1712.52						
	05/10/12	1712.70		27			1,600	15,000
	06/19/12	1711.61						
	07/12/12	1712.20						
	08/06/12	1711.57		30			1,600	15,000
	09/18/12	1711.99						
	10/11/12	1712.21						
	11/05/12	1714.08		30			1,000	17,000
	12/13/12	1712.32						
	01/22/13	1711.73						
	02/04/13	1712.40		27			1,500	15,000
	03/14/13	1714.89						
	04/11/13	1714.64						
	05/06/13	1712.25		29			1,500	18,000
06/12/13	1711.17							
I-H	04/17/12	1710.21						
	05/10/12	1709.09		26			1,600	15,000
	06/19/12	1709.21						
	07/12/12	1709.94						
	08/06/12	1709.33		28			1,400	15,000
	09/18/12	1710.21						
	10/11/12	1710.15						
	11/05/12	1720.16		27			1,400	16,000
	12/13/12	1710.15						
	01/22/13	1711.09						
	02/04/13	1708.91		27			1,600	15,000
	03/14/13	1709.23						
	04/17/13	1720.24						
	05/06/13	1720.48		28			1,800	18,000
06/12/13	1720.70							
I-I	04/17/12	1720.28						
	05/14/12	1720.38		13			720	9,000
	06/20/12	1720.32						
	07/12/12	1719.79						
	08/08/12	1720.60		14			710	8,900
	09/18/12	1719.67						
	10/11/12	1719.60						
	11/07/12	1722.35		14			940	9,800
12/13/12	1719.90							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-I	01/22/13	1718.67						
	02/06/13	1722.82		13			960	8,500
	03/14/13	1722.38						
	04/11/13	1722.10						
	05/13/13	1721.88		14			1,900	11,000
	06/12/13	1722.15						
I-J	04/17/12	1707.13						
	05/14/12	1708.02		2.9			250	6,200
	06/20/12	1707.81						
	07/12/12	1707.19						
	08/08/12	1713.14		3.3			260	6,200
	09/18/12	1709.67						
	10/11/12	1709.58						
	11/07/12	1719.84		3.4			260	6,400
	12/13/12	1709.62						
	01/22/13	1709.57						
	02/06/13	1721.91		3.1			260	6,300
	03/14/13	1722.13						
	04/17/13	1719.07						
	05/13/13	1713.54		3.5			490	7,000
06/12/13	1717.13							
I-K	04/17/12	1711.23						
	05/14/12	1711.86		1.3			120	5,700
	06/20/12	1710.62						
	07/12/12	1710.62						
	08/08/12	1714.22		1.5			140	5,800
	09/18/12	1712.33						
	10/11/12	1712.14						
	11/07/12	1720.21		1.6			160	6,000
	12/13/12	1712.83						
	01/22/13	1712.45						
	02/06/13	1720.89		1.7			180	6,000
	03/14/13	1720.51						
	04/11/13	1715.04						
	05/13/13	1720.69		1.9			370	6,800
06/12/13	1714.93							
I-L	04/17/12	1719.68						
	05/10/12	1712.87		0.67			1,600	5,700
	06/20/12	1711.38						
	07/12/12	1712.13						
	08/06/12	1718.10		0.79			1,300	6,200
	09/18/12	1712.30						
	10/11/12	1717.35						
	11/05/12	1725.55		0.45			2,000 J-	10,000
12/13/12	1711.89							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-L	01/22/13	1720.64						
	02/04/13			0.70			2,200	9,800
	02/06/13	1719.70						
	03/14/13	1720.61						
	04/17/13	1724.53						
	05/06/13	1724.89		1.2			2,000	11,000
	06/13/13	1725.05						
I-M	04/17/12	1711.15						
	05/10/12	1721.50		9.2			770	8,500
	06/20/12	1711.36						
	07/12/12	1711.68						
	08/06/12	1711.49		9.5			760	8,700
	09/18/12	1711.59						
	10/11/12	1711.55						
	11/05/12	1714.79		8.7			1,600	10,000
	12/13/12	1711.70						
	01/22/13	1713.18						
	02/04/13	1712.78		8.0			1,600	9,000
	03/14/13	1713.00						
	04/17/13	1721.79						
	05/06/13	1722.29		8.8			1,200	10,000
06/12/13	1724.55							
I-N	04/17/12	1716.76						
	05/14/12	1719.78		11			970	9,300
	06/19/12	1716.63						
	07/12/12	1715.64						
	08/06/12	1713.95		12			1,000	9,200
	09/18/12	1711.83						
	10/11/12	1711.75						
	11/05/12	1721.78		9.6			5,600	19,000
	12/13/12	1711.73						
	01/22/13	1713.34						
	02/04/13	1713.25		9.2			3,500	13,000
	03/14/13	1714.61						
	04/17/13	1724.86						
	05/06/13	1725.12		10			3,000	13,000
06/12/13	1725.15							
I-O	04/17/12	1715.96						
	05/09/12	1714.72		22			1,600	12,000
	06/19/12	1719.62						
	07/12/12	1715.27						
	08/06/12	1715.87		25			1,400	14,000
	09/18/12	1715.67						
	10/11/12	1715.52						
11/05/12	1721.68		24			1,600	14,000	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-O	12/13/12	1715.19						
	01/22/13	1715.98						
	02/04/13	1717.67		22			2,000	14,000
	03/14/13	1719.19						
	04/17/13	1720.86						
	05/06/13	1720.52		24			1,900	15,000
	06/12/13	1720.89						
I-P	04/17/12	1711.09						
	05/09/12	1710.40		13			1,600	12,000
	06/19/12	1712.59						
	07/12/12	1711.36						
	08/06/12	1712.64		25			1,400	14,000
	09/18/12	1712.14						
	10/11/12	1712.08						
	11/05/12	1712.04		24			1,500	15,000
	12/13/12	1712.56						
	01/22/13	1712.35						
	02/04/13	1710.03		24			1,800	14,000
	03/14/13	1710.76						
	04/17/13	1713.04						
	05/06/13	1710.13		27			2,000	17,000
06/12/13	1710.88							
I-Q	04/17/12	1714.48						
	05/10/12	1719.15		29			1,500	14,000
	06/19/12	1718.81						
	07/12/12	1714.99						
	08/06/12	1718.83		30			1,300	17,000
	09/18/12	1715.99						
	10/11/12	1715.96						
	11/05/12	1723.19		29			1,300	16,000
	12/13/12	1715.11						
	01/22/13	1715.56						
	02/04/13	1724.09		27			1,400	15,000
	03/14/13	1724.53						
	04/11/13	1724.11						
	05/06/13	1724.74		31			1,300	18,000
06/12/13	1724.89							
I-R	04/17/12	1710.05						
	05/10/12	1710.35		0.35			1,600	6,200
	06/20/12	1712.33						
	07/12/12	1711.44						
	08/06/12	1709.65		0.40			1,500	6,100
	09/18/12	1710.17						
	10/11/12	1710.09						
11/05/12	1710.39		0.39			1,900	7,700	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-R	12/13/12	1710.02						
	01/22/13	1710.30						
	02/04/13	1710.06		0.39			2,100	8,400
	03/14/13	1710.53						
	04/17/13	1720.72						
	05/06/13	1721.15		0.64			2,100	10,000
	06/24/13	1721.18						
I-S	04/17/12	1705.92						
	05/10/12	1705.63		1.4			870	5,600
	06/20/12	1705.67						
	07/12/12	1705.67						
	08/06/12	1705.92		1.8			850	5,800
	09/18/12	1706.07						
	10/11/12	1706.19						
	11/05/12	1725.38		0.93			1,800	10,000
	12/13/12	1705.94						
	01/22/13	1706.02						
	02/04/13	1706.32		0.98			2,200	11,000
	03/14/13	1707.11						
	04/17/13	1724.92						
	05/06/13	1725.09		1.4			1,800	10,000
06/24/13	1725.02							
I-T	04/17/12	1709.79						
	05/10/12	1709.48		29			1,600	15,000
	06/19/12	1709.89						
	07/12/12	1708.86						
	08/06/12	1713.07		32			1,500	18,000
	09/18/12	1712.00						
	10/11/12	1712.46						
	11/05/12	1714.16		14			1,500	10,000
	12/13/12	1712.40						
	01/22/13	1714.76						
	02/04/13	1716.93		29			1,500	16,000
	03/14/13	1718.20						
	04/17/13	1722.81						
	05/06/13	1722.98		21			1,500	17,000
06/12/13	1723.20							
I-U	04/17/12	1712.38						
	05/10/12	1711.85		27			1,600	16,000
	06/19/12	1719.96						
	07/12/12	1707.47						
	08/06/12	1714.49		30			1,600	17,000
	09/18/12	1714.05						
	10/11/12	1714.07						
11/05/12	1708.59		13			1,600	15,000	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-U	12/13/12	1713.97						
	01/22/13	1714.73						
	02/04/13	1714.58		28			1,600	16,000
	03/14/13	1713.95						
	04/17/13	1707.97						
	05/06/13	1722.86		15			1,000	11,000
I-V	06/12/13	1719.33						
	04/17/12	1716.82						
	05/14/12	1717.16		17			1,400	11,000
	06/20/12	1716.39						
	07/12/12	1717.13						
	08/08/12	1717.04		18			1,300	11,000
	09/18/12	1717.08						
	10/11/12	1717.06						
	11/07/12	1720.48		16			2,400	14,000
	12/13/12	1716.98						
	01/22/13	1716.91						
	02/06/13	1720.62		16			1,900	12,000
	03/14/13	1720.86						
04/11/13	1720.41							
05/09/13	1720.44		19			1,900	12,000	
06/12/13	1720.52							
I-W	04/17/12	1720.95						
	05/10/12	1720.47						
	06/19/12	1720.49						
	07/12/12	1720.90						
	08/07/12	1720.51						
	09/18/12	1721.37						
	10/11/12	1721.08						
	11/05/12	1722.19						
	12/13/12	1721.48						
	01/22/13	1720.69						
	02/04/13	1720.74						
	03/14/13	1722.78						
	04/11/13	1721.53						
	05/06/13	1721.57						
06/12/13	1721.95							
06/25/13				37			1,700	18,000
I-X	04/17/12	1717.63						
	05/10/12	1719.00						
	06/19/12	1718.38						
	07/12/12	1718.33						
	08/07/12	1717.99						
	09/18/12	1718.20						
10/11/12	1718.10							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
I-X	11/05/12	1723.09						
	12/13/12	1717.79						
	01/22/13	1718.49						
	02/04/13	1723.88						
	03/14/13	1724.62						
	04/11/13	1723.10						
	05/06/13	1716.99						
	06/24/13	1726.14						
	06/25/13			24			3,300	17,000
I-Y	04/17/12	1720.93						
	05/10/12	1721.30						
	06/20/12	1720.61						
	07/12/12	1721.25						
	08/07/12	1721.31						
	09/18/12	1721.18						
	10/11/12	1721.10						
	11/05/12	1724.48						
	12/13/12	1721.11						
	01/22/13	1721.86						
	02/04/13	1725.60						
	03/14/13	1725.35						
	04/11/13	1724.75						
	05/06/13	1724.94						
06/12/13	1725.15							
	06/25/13			9.3			1,600	10,000
I-Z	04/17/12	1710.56						
	05/14/12	1711.48		8.1			310	6,500
	06/20/12	1710.80						
	07/12/12	1710.58						
	08/08/12	1711.89		8.5			310	6,500
	09/18/12	1711.68						
	10/11/12	1711.47						
	11/07/12	1709.45		9.3			340	7,200
	12/13/12	1706.03						
	01/22/13	1711.73						
	02/06/13	1716.73		8.8			350	6,400
	03/14/13	1717.06						
	04/17/13	1710.24						
05/13/13	1713.53		12			1,500	7,700	
06/12/13	1710.89							
M-2A	05/15/12	1739.08		14			450	8,900
	05/13/13	1741.91		18			690	12,000
M-5A	05/15/12	1713.67		0.0018 J			<0.254	13,000
	08/07/12	1713.67						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-5A	08/08/12			0.0050 J			0.98 J	13,000
	05/16/13	1714.35		<0.0040			3.0	13,000
M-6A	05/16/12	1694.08		0.0084			12	1,300
	08/07/12	1694.11						
	08/08/12			0.018 J			10	6,900
	05/16/13	1695.05		0.0072 J			17	8,100
M-7B	05/15/12	1696.34		0.013 J			38	7,300
	08/07/12	1696.44						
	08/08/12			0.0055 J			32	7,900
	05/16/13	1697.44		<0.0040			32	8,100
M-10	04/17/12	1788.61						
	05/21/12	1788.19	120	0.54	0.032	8.0	13	2,800
	(FD)		110	0.58	0.035	8.1	14	2,800
	06/20/12	1788.75						
	07/16/12	1788.67						
	08/08/12	1789.00		0.51	0.015 J-	1.8	13	2,900
	09/18/12	1789.09						
	10/16/12	1788.36						
	11/08/12	1789.52		0.62	0.065 J-	1.7	12	2,900
	12/12/12	1789.09						
	01/22/13	1788.61						
	02/06/13	1789.29		0.48	0.042 J-	1.6	9.4	2,700
	03/18/13	1786.49						
	04/15/13	1788.65						
	05/14/13	1788.79	97	0.52	<0.00025	1.3	12	2,800
(FD)		1,000	0.59	<0.00025	1.4	11	2,700	
06/13/13	1789.03							
M-11	04/17/12	1772.65						
	05/21/12	1772.72	380	2.3	2.0	2.7	29	2,700
	06/20/12	1772.62						
	07/16/12	1772.62						
	08/08/12	1772.85		1.9	2.5 J-		22	2,600
	09/18/12	1772.99						
	10/16/12	1773.25						
	11/08/12	1773.31		1.6	1.7 J-		22	2,600
	12/12/12	1772.99						
	01/22/13	1773.48						
	02/06/13	1773.51		1.7	1.7 J-		25	2,500
	(FD)			1.7	1.4 J-		25	2,500
	03/18/13	1773.40						
	04/15/13	1773.19						
05/15/13	1773.08	330	1.9	1.9	2.5	27	2,700	
06/13/13	1773.20							
M-12A	05/16/12	1771.79	1,900	8.5	9.4	50	200	5,800
	(FD)		1,900	9.0	9.1	44	190	6,100

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-12A	08/08/12	1772.23		8.6	8.9 J-		170	6,400
	(FD)			8.7	8.9 J-		180	6,500
	11/08/12	1772.95		7.8	8.5 J-		170	6,200
	(FD)			7.9	8.2 J-		170	6,100
	02/06/13	1773.13		8.4	8.4 J-		160	6,200
	05/16/13	1772.64	1,700	9.3	8.3	8.2	150	6,600
M-13	05/21/12	1768.51	240	0.70		4.7	21	3,200
	(FD)		230	0.70		5.0	20	3,200
	05/15/13	1770.24	220	0.64		5.0	17	3,300
	(FD)		230	0.64		4.9	21	3,300
M-14A	04/17/12	1729.47						
	05/15/12	1728.39		0.060			33	3,300
	06/20/12	1728.09						
	07/12/12	1729.79						
	08/09/12	1728.13		0.063			34	3,300
	09/18/12	1728.17						
	10/17/12	1730.25						
	11/08/12	1730.23		0.059			38	3,500
	12/12/12	1728.17						
	01/22/13	1729.60						
	02/07/13	1729.53		0.052			37	3,400
	03/18/13	1729.38						
	04/15/13	1729.38						
	05/13/13	1729.24		0.055			44	3,700
06/13/13	1729.20							
M-19	04/17/12	1730.50						
	05/15/12	1731.02		0.45			8.7	5,300
	06/20/12	1731.16						
	07/12/12	1730.62						
	08/09/12	1731.29		0.45			10	5,200
	09/18/12	1730.74						
	10/17/12	1732.50						
	11/07/12	1732.47		0.39			11	5,100
	12/12/12	1730.33						
	01/22/13	1732.72						
	02/04/13	1732.88						
	02/06/13			0.36			11	4,900
	03/18/13	1732.86						
	04/15/13	1732.87						
05/13/13	1732.94		0.35			13	5,200	
06/12/13	1732.77							
M-21	05/16/12			0.70			18	3,400
	05/15/13	1751.74		0.48			15	2,800
M-22A	04/17/12	1728.22						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-22A	05/15/12	1728.28		23			1,600	12,000
	(FD)			22			1,600	12,000
	07/12/12	1728.17						
	08/09/12	1728.33		24			1,400	12,000
	09/18/12	1730.04						
	10/17/12	1730.26						
	11/07/12	1730.26		24			1,300	14,000
	12/12/12	1730.16						
	01/22/13	1730.11						
	02/07/13	1730.22		22			1,500	13,000
	03/18/13	1730.16						
	04/15/13	1730.20						
05/14/13	1730.22			23		2,200	13,000	
06/12/13	1730.16							
M-23	04/17/12	1687.29						
	05/16/12	1686.92	240	0.56		71	340	4,300
	06/20/12	1685.74						
	07/12/12	1687.14						
	08/06/12	1686.55		0.50			310	4,400
	(FD)			0.54			310	4,500
	09/13/12	1686.44						
	10/16/12	1686.24						
	11/06/12	1687.22		0.53			300	4,500
	12/11/12	1686.45						
	01/22/13	1687.48						
	02/04/13	1687.52		0.44			290	4,200
	03/14/13	1687.50						
	04/15/13	1687.54						
	05/09/13	1687.45	170	0.42		55	210 J	4,400
(FD)		170	0.45		55	290 J	4,400	
06/13/13	1687.35							
M-25	04/17/12	1726.33						
	05/15/12	1726.19	2,400	8.6		33	440	7,800
	06/20/12	1726.12						
	07/12/12	1726.05						
	08/08/12	1726.24		8.6			400	7,800
	09/13/12	1727.30						
	10/17/12	1728.95						
	11/06/12	1729.11		8.1			820	8,000
	12/12/12	1728.13						
	01/22/13	1728.83						
	02/05/13	1728.81		7.1			1,200	8,100 J-
	03/18/13	1729.00						
04/15/13	1729.26							

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-25	05/13/13	1729.23	1,800	6.4		55	1,100	9,400
	06/13/13	1729.33						
M-31A	04/17/12	1750.34						
	05/16/12	1750.64		7.4			1,100	6,000
	06/20/12	1751.70						
	07/16/12	1750.73						
	08/08/12	1750.92		7.1			910	7,100
	09/18/12	1750.76						
	10/16/12	1751.97						
	11/08/12	1752.02		6.6			880	7,100
	12/12/12	1750.97						
	01/22/13	1753.37						
	02/06/13	1754.19		0.68			84	2,000
	03/18/13	1754.34						
	04/15/13	1754.98						
05/15/13	1752.97			0.027		1.4	860	
06/13/13	1754.67							
M-35	04/17/12	1740.57						
	05/15/12	1739.99		4.6			210	4,500
	(FD)			4.8			210	4,700
	06/20/12	1740.16						
	07/12/12	1740.38						
	08/08/12	1740.26		4.6			180	4,600
	(FD)			4.7			190	4,500
	09/18/12	1740.28						
	10/17/12	1741.93						
	11/07/12	1741.96		4.3			150	4,300
	12/12/12	1740.38						
	01/22/13	1741.65						
	02/06/13	1741.89		4.3			160	4,200
	03/18/13	1742.12						
	04/15/13	1742.17						
05/13/13	1742.38			4.3		180	4,800	
(FD)				4.6		220	5,200	
06/12/13	1742.08							
M-36	04/17/12	1727.17						
	05/15/12	1726.94	6,400	28	28 J-	49	1,700	14,000
	06/20/12	1726.94						
	07/12/12	1726.97						
	08/09/12	1727.06		30	28 J-		1,500	14,000
	09/18/12	1728.18						
	10/17/12	1729.37						
	11/08/12	1729.21		26	28 J-		1,700	15,000
12/12/12	1728.22							
01/22/13	1728.82							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-36	02/07/13	1728.80		24	25 J-		3,600	17,000
	03/18/13	1728.83						
	04/15/13	1728.97						
	05/14/13	1728.91	4,600	22	23	83	4,500	18,000
	06/12/13	1728.81						
M-37	04/17/12	1729.11						
	05/15/12	1728.97	14	0.028			1,200	3,800
	06/20/12	1728.78						
	07/12/12	1728.74						
	08/08/12	1728.89		0.021	0.011 J-		1,100	3,700
	09/13/12	1729.21						
	10/16/12	1729.05						
	11/06/12	1731.37		0.072	0.072 J-		1,300	5,300
	12/12/12	1729.26						
	01/22/13	1730.89						
	02/05/13	1730.79		0.053			1,800	5,600
	02/06/13				<0.0035 R			
	03/18/13	1730.84						
04/15/13	1730.89							
05/13/13	1730.93	21	0.042	0.037	120	2,300	7,600	
06/13/13	1730.91							
M-38	04/17/12	1728.73						
	05/15/12	1728.20		23			990	12,000
	06/20/12	1727.77						
	07/12/12	1728.61						
	08/09/12	1728.25		24			860	12,000
	09/18/12	1729.64						
	10/17/12	1730.18						
	11/08/12	1730.18		14			4,800	18,000
	12/12/12	1729.56						
	01/22/13	1729.63						
	02/07/13	1728.59		16			2,400	13,000
	03/18/13	1729.70						
	04/15/13	1729.86						
	05/14/13	1729.77		20			1,100	13,000
05/16/13					18			
06/12/13	1729.72							
M-44	04/17/12	1675.91						
	05/08/12	1675.59		0.83	0.84 J-		700	8,400
	06/20/12	1675.36						
	07/12/12	1675.91						
	08/06/12	1675.28		0.97	0.94 J-		750 J	8,400
	(FD)			0.93	0.96 J-		460 J	8,400
	09/13/12	1675.16						
10/16/12	1675.21							

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-44	11/05/12	1675.43		0.91			750	8,500
	(FD)			0.90	0.92 J-		720	8,400
	11/20/12				0.93			
	12/11/12	1675.11						
	01/22/13	1675.11						
	02/04/13	1675.05		0.93	1.0 J-		790	8,200
	03/14/13	1674.96						
	04/17/13	1674.93						
	05/08/13	1674.91		0.94			820	9,700
	05/16/13					1.0		
06/13/13	1674.86							
M-48A	04/17/12	1687.62						
	05/08/12	1688.61	650	2.0		40	280	4,300
	06/20/12	1688.41						
	07/12/12	1687.86						
	08/06/12	1688.32		2.2			200	5,000
	09/13/12	1688.68						
	10/16/12	1688.55						
	11/05/12	1689.97		0.86			86	3,000
	12/11/12	1688.81						
	01/22/13	1690.11						
	02/04/13	1689.94		1.2			150	2,900
	03/14/13	1689.55						
	04/15/13	1689.38						
	05/08/13	1689.18	4,300	1.7		22	150	4,100
(FD)		4,200	1.7		22	160	4,000	
06/13/13	1688.96							
M-52	05/16/12	1761.28		2.8			570	5,000
	11/08/12	1762.26		2.6			540	5,500
	02/06/13	1762.37		2.6			540	5,500
	05/15/13	1762.49		2.4			1,800	6,100
M-55	04/17/12	1720.34						
	05/10/12	1720.70						
	06/20/12	1720.37						
	07/12/12	1720.70						
	08/06/12	1719.88						
	09/13/12	1719.76						
	10/16/12	1719.15						
	11/05/12	1723.79						
	12/11/12	1719.71						
	01/22/13	1724.35						
	02/04/13	1724.41						
	03/14/13	1724.91						
	04/11/13	1725.33						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-55	05/06/13	1725.45						
	06/12/13	1725.93						
M-56	04/17/12	1719.43						
	05/10/12	1719.43						
	06/19/12	1719.65						
	07/12/12	1719.21						
	08/06/12	1719.21						
	09/13/12	1719.68						
	10/16/12	1719.01						
	11/05/12	1722.42						
	12/11/12	1719.61						
	01/22/13	1722.25						
	02/04/13	1723.40						
	03/14/13	1723.61						
	04/11/13	1723.79						
05/06/13	1723.92							
06/12/13	1723.98							
M-57A	04/17/12	1723.33						
	05/10/12	1723.81		0.061			19	3,000
	06/20/12	1723.58						
	07/12/12	1723.84						
	08/08/12	1723.61		0.12			20	3,100
	09/13/12	1723.84						
	10/16/12	1723.79						
	11/06/12	1725.18		0.061			20	3,100
	12/11/12	1723.78						
	01/22/13	1724.79						
	02/05/13	1724.80		0.062			21	3,000
	03/14/13	1724.77						
	04/11/13	1726.19						
05/13/13	1724.58		0.071			49	3,200	
06/12/13	1724.54							
M-58	04/17/12	1720.55						
	05/10/12	1720.64						
	06/19/12	1720.34						
	07/12/12	1720.65						
	08/07/12	1720.56						
	09/13/12	1720.25						
	10/16/12	1719.54						
	11/05/12	1721.90						
	12/11/12	1720.13						
	01/22/13	1721.75						
	02/04/13	1721.64						
	03/14/13	1721.75						
	04/11/13	1721.78						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-58	05/06/13	1721.67						
	06/12/13	1722.04						
M-60	04/17/12	1717.94						
	05/10/12	1718.78						
	06/19/12	1718.41						
	07/12/12	1719.54						
	08/07/12	1718.22						
	09/13/12	1718.43						
	10/16/12	1718.29						
	11/05/12	1720.03						
	12/11/12	1718.45						
	01/22/13	1721.84						
	02/04/13	1722.04						
	03/14/13	1722.63						
	04/11/13	1722.96						
05/06/13	1723.20							
06/12/13	1723.39							
M-64	04/17/12	1719.74						
	05/14/12	1719.97		7.2			640	7,400
	06/20/12	1719.80						
	07/12/12	1720.12						
	08/07/12	1719.99						
	08/08/12			6.4			550	6,600
	09/13/12	1720.62						
	10/16/12	1720.56						
	11/06/12	1723.21		6.6			780	7,400
	12/11/12	1720.46						
	01/22/13	1723.38						
	02/05/13	1723.31		6.2			850	7,000
	03/14/13	1723.76						
04/11/13	1723.99							
05/09/13	1724.16		6.7			1,200	8,900	
06/13/13	1724.42							
M-65	04/17/12	1720.70						
	05/10/12	1720.99		28			1,200	14,000
	06/19/12	1721.64						
	07/12/12	1720.69						
	08/07/12	1720.76						
	08/08/12			28			840	14,000
	09/13/12	1721.06						
	10/16/12	1720.91						
	11/06/12	1724.38		27			1,100	15,000
	12/11/12	1721.01						
01/22/13	1725.13							
02/05/13	1725.27		26			1,100	13,000	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-65	03/14/13	1725.62						
	04/11/13	1725.91						
	05/09/13	1725.91		24			1,800	15,000
	(FD)			25			1,700	17,000
	06/12/13	1725.99						
M-66	04/17/12	1721.02						
	05/10/12	1722.29		28			1,600	15,000
	06/19/12	1722.29						
	07/12/12	1723.24						
	08/07/12	1722.39						
	08/08/12			28			1,500	15,000
	09/13/12	1723.07						
	10/16/12	1722.84						
	11/06/12	1724.06		28			1,300	15,000
	12/11/12	1723.10						
	01/22/13	1724.03						
	02/05/13	1724.09		26			1,800	14,000
	(FD)			26			1,800	14,000 J-
	03/14/13	1724.05						
	04/11/13	1724.06						
05/09/13	1724.14		27			2,600	17,000	
06/12/13	1724.15							
M-67	04/17/12	1723.71						
	05/15/12	1723.14		6.0			290	5,800
	06/20/12	1723.13						
	07/12/12	1723.76						
	08/09/12	1723.31		6.8			260	5,500
	09/18/12	1723.71						
	10/17/12	1724.29						
	11/07/12	1724.49		6.7			260	5,800
	12/11/12	1723.69						
	01/22/13	1724.66						
	02/06/13	1724.94		6.7			260	5,200
	03/14/13	1724.47						
	04/11/13	1724.46						
	05/14/13	1724.46		7.2			110	6,300
06/12/13	1724.37							
M-68	04/17/12	1723.18						
	05/14/12	1722.91		1.3			99	6,800
	06/20/12	1722.86						
	07/12/12	1723.23						
	08/08/12	1723.01		1.3			130	6,100
	09/18/12	1723.91						
10/17/12	1724.11							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-68	11/07/12	1724.32		1.2			120	6,000
	(FD)			1.2			120	5,900
	12/11/12	1723.83						
	01/22/13	1724.68						
	02/04/13	1724.66						
	02/06/13			1.4			150	5,500
	03/14/13	1724.46						
	04/11/13	1724.26						
	05/13/13	1724.45		1.4			150	6,300
	06/12/13	1724.12						
M-69	04/17/12	1715.75						
	05/10/12	1716.01		0.061			160	3,700
	06/20/12	1715.87						
	07/12/12	1715.97						
	08/08/12	1716.04		0.067			150	3,600
	09/13/12	1717.63						
	10/16/12	1717.13						
	11/06/12	1717.90		0.058			150	3,700
	12/11/12	1717.58						
	01/22/13	1718.15						
	02/05/13	1718.27		0.052			160	3,600
	03/14/13	1718.48						
	04/15/13	1718.46						
	05/09/13	1718.45		0.051			320	4,100
	06/12/13	1718.40						
M-70	04/17/12	1712.49						
	05/14/12	1712.53		4.4			610	5,500
	06/20/12	1712.48						
	07/12/12	1712.56						
	08/09/12	1712.74		4.2			530	5,500
	09/18/12	1714.23						
	10/17/12	1714.31						
	11/07/12	1714.23		3.0			380	4,900
	12/11/12	1714.10						
	01/22/13	1715.00						
	02/07/13	1715.41		3.0			440	4,800
	03/18/13	1715.71						
	04/15/13	1715.69						
05/14/13	1715.40		3.3			1,500	6,000	
	06/12/13	1715.47						
M-71	04/17/12	1711.94						
	05/14/12	1711.45		3.7			510	5,300
	06/20/12	1711.35						
	07/12/12	1711.43						
	08/09/12	1711.46		3.6			510	5,400

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-71	09/18/12	1713.62						
	10/17/12	1713.09						
	11/07/12	1712.68		6.0			690	7,500
	12/12/12	1713.54						
	01/22/13	1712.24						
	02/07/13	1712.23		6.6			760	7,400
	03/18/13	1712.42						
	04/15/13	1712.75						
	05/14/13	1712.61		9.1			1,100	11,000
06/12/13	1712.60							
M-72	04/17/12	1714.13						
	05/14/12	1714.20		5.6			1,300	9,700
	06/20/12	1714.26						
	07/12/12	1714.17						
	08/09/12	1714.37		5.5			1,200	8,600
	09/18/12	1715.34						
	10/17/12	1715.49						
	11/07/12	1715.30		6.6			1,200	11,000
	12/12/12	1715.29						
	01/22/13	1714.89						
	02/07/13	1714.88		6.6			1,100	10,000
	03/18/13	1715.02						
	04/15/13	1715.05						
	05/14/13	1715.05		7.7			1,300	11,000
06/12/13	1715.01							
M-73	04/17/12	1711.58						
	05/14/12	1711.78		8.4			480	7,300
	06/20/12	1711.83						
	07/12/12	1711.54						
	08/09/12	1711.90		9.0			480	7,200
	09/18/12	1711.13						
	10/17/12	1713.04						
	11/07/12	1712.96		10			480	9,200
	12/12/12	1710.99						
	01/22/13	1712.42						
	02/06/13	1712.40		11			510	6,900
	03/14/13	1712.32						
	04/15/13	1712.36						
05/13/13	1712.24		10			490	9,000	
06/12/13	1712.23							
M-74	04/17/12	1714.23						
	05/14/12	1713.59		0.96			78	5,900
	06/20/12	1714.01						
	07/12/12	1714.26						
08/09/12	1714.04		1.0			75	5,700	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-74	09/18/12	1713.90						
	10/17/12	1715.88						
	11/07/12	1716.07		1.0			78	6,100
	12/12/12	1713.89						
	01/22/13	1713.87						
	02/06/13	1715.59		1.0			87	5,400
	03/14/13	1715.75						
	04/15/13	1716.94						
	05/13/13	1715.66		1.2			120	6,100
06/12/13	1715.50							
M-75	04/17/12	1741.65						
	05/15/12	1741.70		2.5			59	3,900
	06/20/12	1741.70						
	07/12/12	1742.28						
	08/16/12	1741.73						
	09/18/12	1742.47						
	10/17/12	1743.81						
	11/07/12	1743.77						
	12/12/12	1742.47						
	01/22/13	1742.91						
	02/06/13	1742.84						
	03/18/13	1742.91						
	04/15/13	1742.81						
	05/13/13	1742.66		3.0			75	4,700
06/12/13	1742.48							
M-76	04/17/12	1745.38						
	05/15/12	1745.89		2.8			130	4,500
	06/20/12	1745.85						
	07/12/12	1745.62						
	08/16/12	1745.82						
	09/18/12	1747.34						
	10/17/12	1747.77						
	11/07/12	1747.57						
	12/12/12	1753.26						
	01/22/13	1747.12						
	02/06/13	1746.97						
	03/18/13	1746.80						
	04/15/13	1746.64						
05/13/13	1746.46		2.4			130	4,800	
06/12/13	1746.31							
M-77	04/17/12	1763.05						
	05/16/12	1763.33		0.60			350	3,100
	06/20/12	1763.30						
	07/16/12	1762.47						
	08/16/12	1763.26						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-77	09/18/12	1762.66						
	10/16/12	1763.66						
	11/08/12	1763.68						
	12/12/12	1762.61						
	01/22/13	1763.53						
	02/06/13	1763.58						
	03/18/13	1763.10						
	04/15/13	1763.49						
	05/13/13	1763.51						
	05/15/13				0.53			220
M-78	04/17/12	1718.38						
	05/22/12	1718.52						
	06/20/12	1718.47						
	07/12/12	1718.32						
	08/16/12	1716.93						
	09/13/12	1717.53						
	10/16/12	1717.28						
	11/05/12	1721.40						
	12/12/12	1717.50						
	01/22/13	1724.22						
	02/04/13	1724.05						
	03/14/13	1724.86						
	04/15/13	1725.39						
	05/06/13	1725.43						
06/12/13	1725.52							
M-79	04/17/12	1711.03						
	05/10/12	1710.78		0.63			480	4,400
	06/20/12	1710.74						
	07/12/12	1710.74						
	08/08/12	1710.89		0.51			480	4,300
	09/13/12	1711.03						
	10/16/12	1710.60						
	11/06/12	1712.26		0.46			440	4,300
	11/08/12			0.45			450	4,300
	12/11/12	1711.23						
	01/22/13	1712.97						
	02/05/13	1713.28		0.42			460	4,000
	03/14/13	1713.23						
04/15/13	1713.50							
05/09/13	1713.34		0.40			560	4,700	
06/12/13	1713.23							
M-80	04/17/12	1708.04						
	05/14/12	1709.82		0.098			50	1,300
	06/20/12	1709.75						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-80	07/12/12	1708.94						
	08/09/12	1709.88		0.24			65	1,500
	09/18/12	1711.29						
	10/17/12	1710.24						
	11/07/12	1711.20		0.46			83	1,800
	12/11/12	1711.53						
	01/22/13	1708.92						
	02/07/13	1710.48		0.51			110	1,700
	03/14/13	1710.69						
	04/15/13	1710.94						
	05/14/13	1710.85		0.71			140	2,000
06/12/13	1710.83							
M-81A	04/17/12	1709.01						
	05/14/12	1708.08		3.2			910	5,500
	(FD)			3.2			880	5,800
	06/20/12	1708.24						
	07/12/12	1708.18						
	08/09/12	1708.47		3.1			790	5,600
	09/18/12	1710.56						
	10/17/12	1711.68						
	11/07/12	1710.66		3.3			750	6,000
	12/11/12	1710.47						
	01/22/13	1709.03						
	02/07/13	1708.93		3.0			760	4,600
	03/14/13	1708.91						
	04/15/13	1707.96						
05/14/13	1708.86		2.9			810	5,900	
06/12/13	1708.86							
M-83	04/12/12	1709.39					80	1,700
	05/15/12	1709.37		0.48			110	1,900
	06/21/12	1709.35					100	1,800
	07/11/12	1709.26					120	1,900
	08/09/12	1709.58		0.64			150	2,000
	09/12/12	1709.12					170	2,500
	10/10/12	1711.49					210	2,500
	11/07/12	1710.87		0.91			200	2,500
	12/06/12	1710.62					270	2,500
	01/17/13	1711.32					230	2,600
	02/07/13	1711.80		0.79			230	2,200
	03/13/13	1711.98					240	2,500
	04/09/13	1712.02					290	2,500
	05/14/13	1711.79		0.89			280	2,700
06/11/13	1711.70					220	2,800	
M-92	04/17/12	1769.28						
	05/15/12	1764.07		0.02 J			1.3	2,000

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-92	06/20/12	1763.85						
	07/12/12	1764.26						
	08/16/12	1763.76						
	09/18/12	1764.56						
	10/17/12	1764.96						
	11/06/12	1765.20						
	12/12/12	1764.69						
	01/22/13	1765.96						
	02/06/13	1765.73						
	03/18/13	1765.41						
	04/15/13	1765.23						
	05/09/13	1764.96		0.023			66	2,000
	06/13/13	1764.74						
M-93	04/17/12	1762.62						
	05/15/12	1761.75						
	06/20/12	1761.59						
	07/12/12	1762.24						
	08/16/12	1761.47						
	09/18/12	1762.49						
	10/17/12	1761.87						
	11/06/12	1763.05						
	12/12/12	1762.41						
	01/22/13	1763.99						
	02/06/13	1763.40						
	03/18/13	1763.31						
	04/15/13	1762.95						
	05/09/13	1762.71						
06/13/13	1762.48							
M-95	04/17/12	1678.97						
	05/08/12	1678.64		0.74	0.66 J-		440	6,000
	06/20/12	1679.46						
	07/12/12	1678.94						
	08/16/12	1678.28						
	09/13/12	1678.72						
	10/16/12	1678.69						
	11/05/12	1677.69		0.71	0.73 J-		370	6,300
	12/12/12	1678.48						
	01/22/13	1678.94						
	02/04/13 (FD)	1677.89		0.69	0.68 J-		390	6,100
				0.68	0.69 J-		380	6,100
	03/14/13	1677.90						
	04/15/13	1677.87						
05/08/13	1675.85		0.72			350	6,900	
05/16/13				0.63 J-				
06/13/13	1677.74							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-96	04/17/12	1678.44						
	05/17/12	1678.14		0.58			250	5,500
	06/20/12	1677.94						
	07/12/12	1678.28						
	08/06/12	1677.76		0.60			160	5,600
	09/13/12	1677.77						
	10/16/12	1677.65						
	11/05/12	1677.72		0.56			140	5,800
	12/12/12	1677.69						
	01/22/13	1678.22						
	02/04/13	1677.42						
	03/14/13	1677.25						
	04/15/13	1677.33						
	05/06/13	Dry						
06/13/13	Dry							
M-97	04/17/12	1760.74						
	05/15/12	1760.72		0.056			72	3,900
	06/20/12	1760.59						
	07/12/12	1760.75						
	08/16/12	1762.82						
	09/18/12	1761.23						
	10/17/12	1761.76						
	11/06/12	1761.95		0.063			70	4,100
	12/12/12	1761.05						
	01/22/13	1762.28						
	02/06/13	1762.21		0.064			74	4,200
	03/18/13	1761.87						
	04/15/13	1761.79						
	05/09/13	1761.60		0.073			94	4,800
06/13/13	1761.42							
M-98	05/16/12	Dry						
	08/07/12	Dry						
	09/13/12	Dry						
	10/16/12	Dry						
	11/06/12	Dry						
	12/11/12	Dry						
	01/22/13	Dry						
	02/05/13	Dry						
	03/14/13	Dry						
	04/15/13	Dry						
	05/16/13	Dry						
06/01/13	Dry							
M-99	04/17/12	Dry						
	05/15/12	Dry						
	06/20/12	Dry						

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-99	07/12/12	Dry						
	08/08/12	Dry						
	09/13/12	Dry						
	10/16/12	Dry						
	11/06/12	Dry						
	12/11/12	Dry						
	01/22/13	Dry						
	02/05/13	Dry						
	03/14/13	Dry						
	04/15/13	1697.70						
05/13/13	1697.65		0.27			290	3,800	
06/13/13	Dry							
M-100	04/17/12	Dry						
	05/15/12	Dry						
	06/20/12	Dry						
	07/12/12	Dry						
	08/08/12	Dry						
	09/13/12	Dry						
	10/16/12	Dry						
	11/06/12	Dry						
	12/11/12	Dry						
	01/22/13	Dry						
	02/05/13	Dry						
	03/14/13	Dry						
	04/15/13	Dry						
	05/13/13	Dry						
06/13/13	Dry							
M-101	04/17/12	Dry						
	05/15/12	Dry						
	06/20/12	Dry						
	07/12/12	Dry						
	08/08/12	Dry						
	09/13/12	Dry						
	10/16/12	Dry						
	11/06/12	Dry						
	12/11/12	Dry						
	01/22/13	Dry						
	02/05/13	Dry						
	03/14/13	Dry						
	04/15/13	Dry						
	05/13/13	Dry						
06/13/13	Dry							
M-103	05/21/12	1796.59		0.01 J			0.22	1,900
	05/23/13	1797.22		0.012			0.21	1,800

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-115	04/17/12	1751.13						
	05/15/12	1749.92		0.042			18	2,500
	06/20/12	1749.65						
	07/12/12	1751.06						
	08/21/12	1749.66						
	09/18/12	1751.91						
	10/17/12	1751.82						
	11/07/12	1751.71		0.046			16	2,600
	12/11/12	1752.54						
	01/22/13	1751.32						
	02/06/13	1751.18						
	03/18/13	1750.83						
	04/15/13	1750.63						
	05/13/13	1750.44		0.039			17	2,500
06/12/13	1750.24							
M-117	05/21/12	1808.41		0.016 J			<0.000254	740
	05/21/13	1809.20		0.016			<0.00095	750
M-118	05/21/12	1809.69		0.023			<0.000254	760
	05/21/13	1810.72		0.017			<0.00095	810
M-120	05/21/12	1800.27		0.0056 J			0.061	1,900
	05/21/13	1800.84		0.0098			0.055	1,800
M-121	05/21/12	1799.47		0.11			2.6	2,800
	05/21/13	1799.90		0.15			3.4	2,300
M-123	05/16/12	1743.93					0.11	11,000
	05/14/13	1744.51					0.90	13,000
M-124	05/16/12	1750.85		0.042			1.9	2,500
	05/14/13	1751.58		0.038			2.1	2,900
M-125	05/16/12	1733.39					0.85	13,000
	05/14/13	1734.02					0.62	13,000
M-126	05/14/12	1724.18		0.0088 J			0.98	13,000
	05/13/13	1724.91		0.011 J			1.7	17,000
M-128	05/16/12	1746.97					7.0	2,500
	05/14/13	1747.46					8.1	3,100
M-129	05/23/12	1714.91		0.76			47	5,800
	05/23/13	1716.78		1.1			97	6,300
M-130	05/23/12	1720.77		0.81			60	5,700
	05/23/13	1722.32		1.1			110	6,100
M-131	05/10/12	1721.29		0.074			43	3,200
	08/08/12	1721.23		0.083			37	3,200
	11/06/12	1722.96		0.084			36	3,200
	02/05/13	1722.61		0.084			38	3,100
	05/13/13	1722.68		0.084			92	3,400
M-133	05/14/12	1714.65		0.76			28	4,500
	05/14/13	1716.19		0.85			30	5,500

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-134	05/14/12	1717.67		0.15			100	2,700
	05/13/13	1719.49		0.16			210	2,800
M-135	05/14/12	1717.31		0.078			35	3,400
	08/08/12	1717.24		0.071			36	3,200
	11/06/12	1719.05		0.078			36	3,400
	02/05/13	1719.25		0.070			38	3,400
	05/13/13	1719.35		0.067			79	3,700
M-136	05/14/12	1722.54		0.073			92	1,200
	05/13/13	1723.16		0.086			170	1,300
M-137	05/16/12	1791.70		0.090			1.5	1,900
	05/16/13	1792.24		0.087			1.4	2,000
M-138	05/16/12	1791.91		0.058			1.7	2,600
	05/16/13	1792.60		0.043			1.6	2,800
M-139	05/16/12	1778.65		0.10			2.5	2,800
	05/15/13	1779.23		0.063			2.1	3,300
M-140	06/25/13			2.0			730	7,300
M-141	05/16/12	1754.74		9.0			630	7,200
	05/15/13	1756.70		7.1			490	8,000
M-142	05/16/12	1742.76		0.044			12	2,400
	(FD)			0.041			11	2,400
	05/14/13	1743.20		0.059			8.5	2,600
M-144	05/16/12	1775.43		0.055			2.9	3,000
	05/16/13	1776.09		0.058			2.6	3,400
	(FD)			0.065			2.5	3,300
M-145	05/16/12	1775.53		0.30			0.60	2,300
	05/15/13	1775.67		0.055			0.83	3,200
M-146	05/16/12	1777.91		0.095			3.8	4,300
	05/16/13	1778.53		0.093			4.0	4,600
	(FD)			0.11			3.1	4,700
M-147	05/24/12	1741.32		0.19			13	4,400
	05/16/13	1743.31		0.31			9.5	4,600
M-148A	05/16/12	1754.71		0.12			3.5	5,300
	05/15/13	1755.05		0.12			4.0	5,800
M-149	05/24/12	1750.59		2.1			270	2,200
	05/23/13	1754.01		2.9			390	3,300
M-150	05/22/12	1732.02		0.038			0.17	540
	05/21/13	1737.34		0.033			0.16	510
M-151	05/24/12	1709.88		0.030			<0.000254	490
	05/22/13	1710.33		0.031			0.0041	520
M-152	05/24/12	1670.63		0.038			0.62	630
	05/20/13	1673.82		0.033			0.46	620
M-153	05/24/12	1765.47		0.021			0.019	540
	05/23/13	1769.82		0.022			0.027 J+	570
M-154	05/22/12	1750.16		0.036			<0.000254	560
	05/21/13	1748.29		0.036			0.0020	550

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-155	05/24/12	1730.69		0.018 J			<0.000254	540
	(FD)			0.016 J			<0.000254	530
	05/22/13	1730.69		0.022			<0.00095	550
M-156	05/24/12	1679.86		0.011 J			<0.000254	540
	(FD)			0.0086 J			<0.000254	530
	05/20/13	1685.04		0.025			<0.00095	550
M-161	05/21/12	1729.17		0.024			0.023	570
	05/20/13	1730.08		0.022			0.017	550
M-162	05/23/12	1722.92		0.023			3.0	550
	05/20/13	1726.91		0.029			12	620
M-163	05/23/12	1718.08		0.028			0.033	560
	05/20/13	1722.26		0.029			0.043	560
	(FD)			0.026			0.046	560
M-164	05/24/12	1711.77		2.6			420	3,400
	05/20/13	1714.67		3.2			480	4,100
M-165	05/23/12	1719.44		0.030			0.24	530
	(FD)			0.024			0.21	530
	05/22/13	1718.92		0.027			0.099	540
M-166	05/13/12	1721.42						
	08/06/12	1721.31						
	11/05/12	1723.53						
	02/04/13	1723.26						
	05/06/13	1723.68						
M-167	05/13/12	1721.43						
	08/06/12	1721.51						
	11/05/12	1724.95						
	02/04/13	1725.35						
	05/06/13	1725.16						
M-168	05/13/12	1721.75						
	08/06/12	1721.75						
	11/05/12	1725.85						
	02/04/13	1725.05						
	05/06/13	1725.85						
M-169	05/13/12	1720.94						
	08/06/12	1720.92						
	11/05/12	1725.32						
	02/04/13	1725.42						
	05/06/13	1725.68						
M-170	05/13/12	1720.60						
	08/06/12	1721.15						
	11/05/12	1724.18						
	02/04/13	1724.45						
	05/06/13	1725.51						
M-172	05/14/12	1717.24						
	08/06/12	1717.13						

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
M-172	11/05/12	1722.40						
	02/04/13	1723.88						
	05/06/13	1724.74						
M-173	05/13/12	1720.18						
	08/06/12	1720.30						
	11/05/12	1721.60						
	02/04/13	1721.80						
	05/06/13	1722.05						
M-174	05/13/12	1721.29						
	08/07/12	1721.27						
	11/05/12	1723.82						
	02/04/13	1722.68						
	05/16/13	1722.56						
M-175	05/13/12	1720.96						
	08/07/12	1721.03						
	11/05/12	1722.09						
	02/04/13	1722.87						
	05/16/13	1721.97						
M-176	05/13/12	1720.83						
	08/07/12	1720.83						
	11/05/12	1722.12						
	02/04/13	1722.85						
	05/16/13	1721.75						
M-177	05/14/12	1720.77						
	08/07/12	1720.92						
	11/06/12	1722.39						
	02/04/13	1722.86						
	05/16/13	1721.94						
M-181	05/23/12	1730.89		0.042			<0.000254	510
	05/22/13	1733.67		0.051			0.011	530
M-182	05/23/12	1726.90		1.3			8.1	12,000
	05/22/13	1729.13		1.2			8.8	16,000
M-186	05/24/12	1755.12		1.8			92	4,100
	05/23/13	1756.85		4.3			190	7,800
	(FD)			4.5			200	7,800
MC-3	05/09/12	1691.36					9.8	15,000
	05/09/13	1691.84					<0.19	13,000
MC-6	05/09/12	1683.62					0.65	14,000
	05/09/13	1684.30					<0.019	14,000
MC-7	05/09/12	1691.24					15	4,800
	05/09/13	1691.47					18	5,200
MC-29	05/09/12	1686.33					1.2	20,000
	05/09/13	1687.55					<0.00095	22,000
MC-45	05/09/12	1682.27					0.72	14,000
	05/09/13	1683.07					<0.019	14,000

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Nevada Environmental Response Trust Site
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
MC-50	05/10/12	1683.42					0.22	15,000
	05/09/13	1684.29					<0.019	15,000
MC-51	05/10/12	1684.48					0.049	15,000
	05/09/13	1685.48					0.040	14,000
MC-53	05/10/12	1683.28		0.0026 J			0.42	14,000
	05/09/13	1684.26		0.0031 J			4.0	14,000
MC-65	05/10/12	1671.71		0.12			67	9,700
	05/08/13			0.043			42	13,000
	05/09/13	1672.69						
MC-69	05/10/12	1686.67					0.84	14,000
	05/09/13	1687.31					<0.019	14,000
MC-93	05/10/12	1685.56					9.7	8,200
	05/09/13	1686.65					28	8,800
MC-97	05/10/12	1687.15					1.3	13,000
	05/09/13	1683.65					0.0045	14,000
MW-16	05/14/12	1718.23		0.0019 J			0.84	9,200
	05/13/13	1718.94		<0.0040			1.8	13,000
MW-K4	04/12/12	1586.45					260	6,400
	05/24/12	1586.45		0.34			300	6,300
	06/21/12	1586.44					300	6,400
	07/10/12	1586.25					290	6,400
	08/14/12	1586.68		0.37			300	6,500
	09/11/12	1587.42					300	6,400
	10/10/12	1587.66					270	6,600
	11/14/12	1587.78		0.28			220	6,400
	12/06/12	1587.59					210	6,700
	01/17/13	1587.18					270	6,400
	02/13/13	1586.95					260	6,500
	03/13/13	1586.78					260	6,500
	04/10/13	1586.57					280	6,400
	05/23/13	1585.93						
06/11/13	1587.07							
MW-K5	04/12/12	1567.01					19	6,300
	05/23/12	1566.53	78	0.053		58	23	7,000
	06/21/12	1567.70					23	7,000
	07/10/12	1566.60					22	6,700
	08/13/12	1567.72		0.046			20	6,600
	09/11/12	1567.43					23	6,600
	10/10/12	1569.84					21	6,500
	11/14/12	1569.44		0.024			17	6,600
	12/06/12	1568.92					20	6,700
	01/16/13	1567.84					28	6,800
	02/13/13	1568.22					24	6,500
	03/13/13	1567.04					22	6,500
04/11/13	1567.12					23	6,500	

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
MW-K5	05/23/13	1567.28	94	0.072		11	27	7,600
	06/11/13	1567.42					24	7,300
PC-1	05/17/12	Dry						
	05/07/13	Dry						
PC-2	05/17/12	1568.59	24	0.077		64	4.4	5,500
	05/07/13	1568.91	22	0.012		11	4.5	5,700
PC-4	05/17/12	1564.25	88	0.081		88	8.4	7,100
	05/07/13	1565.06	77	0.065		23	8.5	7,200
PC-18	04/11/12	1590.07					160	9,400
	05/24/12	1589.44		0.15			170	9,900
	06/21/12	1589.43					170	9,800
	07/11/12	1589.36					170	9,900
	08/15/12	1589.50		0.16			170	10,000
	09/10/12	1590.10					190	9,600
	10/09/12	1590.44					190	9,600
	11/14/12	1590.62		0.087			170	9,600
	12/05/12	1590.46					160	9,600
	01/16/13	1589.99					180	9,600
	02/12/13						180	9,600
	02/13/13	1589.59						
	03/12/13	1589.68					160	9,700
	04/09/13	1589.54					160	9,800
	05/23/13	1589.64			0.15			180
06/10/13	1589.86						140	10,000
PC-21A	05/08/12	1692.65	350	0.34		22	3.2	10,000
	05/08/13	1693.12	2,800	0.18		17	2.4	10,000
	(FD)		2,900	0.18		18	2.7	11,000
PC-24	05/07/12	1612.27		0.26			39	11,000
	05/06/13	1612.67		0.25			41	10,000
PC-28	05/09/12	1638.86		1.1			420	6,600
	05/06/13	1639.45		0.88			330	6,800
PC-31	05/10/12	1647.54		0.0014 J			16	5,400
	05/06/13	1647.86		0.0046 J			27	5,500
PC-37	04/17/12	1679.25						
	05/08/12	1679.01		0.24			430	7,300
	06/20/12	1679.50						
	07/12/12	1679.18						
	08/06/12	1678.69		0.24			380	7,200
	09/13/12	1678.21						
	10/17/12	1677.95						
	11/05/12	1678.67		0.23			420	7,200
	12/11/12	1677.89						
	01/22/13	1678.52						
02/04/13	1678.58		0.21			380	7,200	
03/14/13	1678.54							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-37	04/15/13	1678.51						
	05/08/13	1678.47		0.21			400	8,000
	(FD)			0.18			390	8,200
	06/13/13	1678.37						
PC-40	05/08/12	1657.43		0.0022 J			1.1	13,000
	05/08/13	1658.51		<0.0020			0.29	15,000
PC-50	05/07/12	1620.87		0.069			160	9,600
	05/06/13	1621.23		0.084			250	10,000
PC-53	04/12/12	1565.89					3.2	4,900
	05/23/12	1565.41		0.051			3.6	5,100
	06/21/12	1567.25					3.5	5,300
	07/10/12	1567.19					3.7	5,100
	08/13/12	1566.09		0.050			3.2	5,100
	09/11/12	1568.71					1.0	4,200
	10/10/12	1569.09					2.0	4,800
	11/14/12	1568.69		0.039			2.8	4,900
	12/06/12	1568.20					2.9	4,800
	01/16/13	1568.22					3.0	5,000
	02/13/13	1568.35					2.6	4,800
	03/13/13	1566.48					2.7	4,700
	04/11/13	1566.35					2.8	5,100
	05/23/13	1566.52			0.064			2.7
06/11/13	1566.57						2.7	5,500
PC-54	04/17/12	1682.73						
	05/08/12	1682.42		1.5			240	5,300
	06/20/12	1682.12						
	07/12/12	1682.73						
	08/06/12	1681.89		1.6			220	5,300
	09/13/12	1681.42						
	10/16/12	1681.31						
	11/05/12	1681.83		1.5			200	5,400
	12/11/12	1681.20						
	01/22/13	1681.89						
	02/04/13	1681.92		1.6			240	5,300
	03/14/13	1681.78						
	04/15/13	1681.57						
05/08/13	1681.72			1.7			220	6,000
06/13/13	1681.59							
PC-55	04/11/12	1590.41					1.1	7,700
	05/23/12	1590.41		0.0028 J			1.5	7,400
	06/21/12	1590.44					1.2	7,400
	07/10/12	1590.39						
	07/11/12						1.4	7,600
	08/14/12	1590.66		0.0048 J			1.5	7,400
09/10/12	1591.11					1.5	7,100	

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-55	10/09/12	1591.56					1.8	7,300
	11/14/12	1591.66		<0.00088			1.0	7,300
	12/05/12	1590.06					1.4	7,200
	01/16/13	1591.16					1.3	7,400
	02/12/13	1590.91					6.2	7,200
	03/12/13	1590.79					12	5,800
	04/09/13	1590.65					1.9	7,500
	05/23/13	1590.67		<0.0020			2.8	7,700
	06/10/13	1590.95					2.3	7,500
PC-56	04/11/12	1553.55					14	4,900
	05/22/12	1553.02		0.0051 J			18	5,000
	06/11/12	1552.76					18	5,100
	07/10/12	1552.85					17	5,100
	08/15/12	1552.83		0.0059 J			18	5,300
	09/10/12	1552.71					23	6,400
	10/09/12	1555.81					18	5,600
	11/13/12	1555.50		0.0034 J			16	5,100
	02/12/13	1555.05					18	4,700
	03/12/13	1554.62					18	4,600
	04/10/13	1554.68					21	5,100
	05/21/13	1554.31		0.0022 J			18	5,400
06/10/13	1554.25					18	5,500	
PC-58	04/11/12	1553.06					2.0	3,100
	05/22/12	1552.53		0.030			2.5	3,500
	06/11/12	1552.30					2.9	3,600
	07/10/12	1552.51					2.2	3,500
	08/15/12	1551.36		0.027			2.4	3,800
	09/10/12	1551.81					1.9	8,600
	10/09/12	1554.34					2.5	6,400
	11/13/12	1553.96		0.041			2.7	7,300
	02/12/13	1554.17					2.8	6,600
	03/12/13	1554.02					2.0	5,400
	04/10/13	1553.29					1.9	5,100
	05/21/13	1553.55		0.030			1.4	4,300
06/10/13	1553.52					1.3	4,000	
PC-59	04/11/12	1554.41					4.4	3,300
	05/22/12	1554.06		0.0022 J			4.4	3,100
	06/11/12	1553.74					3.9	3,200
	07/10/12	1553.63					4.1	3,200
	08/15/12	1553.74		0.0017 J			3.8	3,100
	09/10/12	1553.62					3.8	3,000
	10/09/12	1556.42					3.6	3,100
	11/13/12	1556.12		<0.00088			3.4	2,900
	02/12/13	1555.65					4.5	3,000
03/12/13	1555.71					5.4	3,100	

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-59	04/10/13	1555.55					6.2	3,300
	05/21/13	1555.36		<0.0020			6.1	3,600
	06/10/13	1555.26					6.2	3,600
PC-60	04/11/12	1553.86					3.6	2,800
	05/22/12	1553.32		<0.00088			4.6	2,800
	06/11/12	1553.11					4.5	2,900
	07/10/12	1553.05					4.0	2,800
	08/15/12	1553.16		0.00063 J			4.0	2,800
	09/10/12	1553.07					3.4	2,500
	10/09/12	1556.17					3.2	2,500
	11/13/12	1555.83		<0.00088			2.9	2,600
	02/12/13	1555.47					2.6	2,400
	03/12/13	1555.07					2.8	2,500
	04/10/13	1554.96					3.1	2,500
05/21/13	1554.76		<0.0020			3.1	2,500	
06/10/13	1554.71					3.3	2,600	
PC-62	04/11/12	1555.10					0.76	2,200
	05/23/12	1554.94		0.0022 J			0.081	1,900
	06/11/12	1554.48					0.099	1,900
	07/10/12	1554.55					0.15	2,000
	08/15/12	1554.53		0.0011 J			0.16	1,800
	09/10/12	1554.42					0.65	2,400
	10/09/12	1556.91					2.4	3,000
	11/13/12	1556.58		0.0011 J			1.9	2,600
	02/12/13	1555.94					0.53	2,000
	03/12/13	1556.41					0.59	2,200
	04/10/13	1556.36					0.49	1,900
05/21/13	1556.06		<0.0020			0.24	1,900	
06/10/13	1555.96					0.23	1,900	
PC-64	05/09/12	1665.71		1.3			400	7,100
	05/06/13	1665.45		1.2			360	7,400
PC-65	05/09/12	1665.93		0.76			210	5,900
	05/06/13	1665.51		0.69			180	6,300
PC-66	05/09/12	1660.87		1.6			230	6,900
	05/06/13	1660.61		1.6			280	6,900
PC-67	05/09/12	1660.79		0.65			57	12,000
	05/06/13	1660.44		0.50			28	13,000
PC-68	04/11/12	1555.94					<0.000254	1,900
	05/23/12	1555.32		<0.00088			<0.000254	2,000
	06/11/12	1555.02					0.0048	1,900
	07/10/12	1554.80					<0.000254	1,900
	08/15/12	1555.14		0.0013 J			<0.000254	1,800
	09/10/12	1555.00					0.037	2,200
	10/09/12	1557.42					0.032	2,100
11/13/12	1557.09		<0.00088			0.003 J	1,900	

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-68	12/05/12	1554.70					0.057	1,900
	01/16/13	1554.37					0.036	2,000
	02/12/13	1554.18					0.0026 J	2,000
	03/12/13	1554.47					<0.00025	2,000
	04/10/13	1554.39					<0.0048	2,200
	05/21/13	1556.78		<0.0020			<0.0019	2,300
	06/10/13	1556.64					<0.0019	2,300
PC-71	04/17/12	1673.33						
	05/08/12	1673.06		0.29			420	7,400
	06/20/12	1673.55						
	07/12/12	1673.43						
	08/06/12	1672.70		0.32			310	6,900
	09/13/12	1672.91						
	10/16/12	1672.68						
	11/05/12	1673.10		0.34			480	7,300
	12/11/12	1672.83						
	01/22/13	1672.98						
	02/04/13	1672.90		0.32			410	7,000
	03/14/13	1672.80						
	04/15/13	1672.80						
	05/08/13	1672.71		0.30			310	7,600
06/13/13	1672.65							
PC-72	04/17/12	1671.47						
	05/08/12	1670.57		0.18			210	6,900
	06/20/12	1670.49						
	07/12/12	1670.83						
	08/06/12	1670.33		0.34			490	8,200
	09/13/12	1670.20						
	10/16/12	1670.03						
	11/05/12	1671.32		0.19			230	6,700
	(FD)			0.20			240	6,800
	12/11/12	1668.61						
	01/22/13	1671.23						
	02/04/13	1671.23		0.19			230	6,800
	03/14/13	1671.17						
	04/15/13	1671.14						
05/08/13	1671.04		0.21			230	7,300	
06/13/13	1670.93							
PC-73	04/17/12	1669.39						
	05/08/12	1669.08		0.38			390	6,900
	06/20/12	1668.94						
	07/12/12	1669.59						
	08/06/12	1668.89		0.37			330	7,000
	09/13/12	1669.63						
10/16/12	1669.57							

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Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-73	11/05/12	1670.42		0.34			350	6,900
	12/11/12	1670.18						
	01/22/13	1670.17						
	02/04/13	1670.21		0.36			380	7,100
	03/14/13	1670.10						
	04/15/13	1670.14						
	05/08/13	1669.94		0.42			430	7,800
PC-74	05/08/12	1552.65					0.56	4,700
	05/15/13	1553.66					0.57	4,900
PC-76	05/08/12	1552.24						
	05/15/13	1553.32						
PC-77	05/08/12	1558.60					3.6	4,300
	05/15/13	1559.21					2.7	4,800
PC-78	05/08/12	1559.37						
	05/15/13	1560.00						
PC-79	05/07/12	1554.26		<0.00088			3.8	2,700
	05/21/13	1555.27		<0.0020			4.6	2,800
PC-80	05/07/12	1554.30						
	05/21/13	1555.34						
PC-81	05/07/12	1554.13						
	05/21/13	1555.19						
PC-82	05/07/12	1550.54	0.20			2.4	1.4	3,100
	05/21/13	1551.67	<0.016			0.19 J	0.48	2,200
PC-83	05/07/12	1551.31						
	05/21/13	1552.39						
PC-86	04/11/12	1547.48					0.58	2,200
	05/22/12	1547.01	0.0052	<0.00088		1.7	0.92	2,100
	06/11/12	1546.62					0.98	2,200
	07/09/12	1546.95					1.0	2,200
	08/13/12	1546.72		<0.00088			0.96	2,200
	09/10/12	1548.81					1.0	2,100
	10/09/12	1549.02					1.3	2,200
	11/13/12	1548.70		<0.00088			1.1	2,200
	12/05/12	1547.55					0.86	2,200
	01/16/13	1547.31					1.1	2,200
	02/12/13	1547.23					1.1	2,200
	03/12/13	1547.33					1.1	2,200
	04/09/13	1547.16					1.6	2,200
PC-87	05/21/13	1548.32	0.086	<0.0020		0.31	1.7	2,300
	06/10/13	1548.21					1.7	2,300
PC-87	05/07/12	1547.07						
	05/20/13	1547.95						
PC-88	05/07/12	1543.14						
	05/22/13	1544.41						

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-90	04/11/12	1542.75					9.2	3,900
	05/22/12	1542.71	8.7	0.002 J		5.7	8.0	3,500
	06/11/12	1542.32					8.0	3,600
	07/09/12	1542.00					13	4,200
	08/13/12	1542.41		0.0030 J			13	4,400
	09/10/12	1544.28					15	5,100
	10/09/12	1544.41					16	5,400
	11/13/12	1544.21		<0.00088			18	4,900
	12/05/12	1544.11					16	4,600
	01/16/13	1543.78					13	4,100
	02/12/13	1543.74					12	3,900
	03/12/13	1543.82					12	3,800
	04/09/13	1543.85					6.4	3,200
	05/22/13	1543.74		4.2	<0.0020		2.9	7.7
06/10/13	1543.57						6.8	3,300
PC-91	04/11/12	1539.42					4.9	3,200
	05/22/12	1539.01	2.5	0.0025 J		3.2	4.1	3,000
	06/11/12	1538.74					3.6	3,000
	07/09/12	1539.44					3.0	2,800
	08/13/12	1539.03		0.0011 J			2.6	2,800
	09/10/12	1539.21					3.2	3,000
	10/09/12	1540.84					4.4	3,300
	11/13/12	1540.80		0.0012 J			5.4	3,700
	12/05/12	1540.65					5.0	3,700
	01/16/13	1540.45					5.1	3,600
	02/12/13	1540.23					4.8	3,400
	03/12/13	1540.68					4.9	3,400
	04/09/13	1540.18					4.6	3,300
	05/22/13	1539.91		3.5	<0.0020		2.0	4.6
06/10/13	1539.82						4.2	3,200
PC-92	05/22/12	1539.18		0.0012 J			2.0	2,700
	11/13/12			<0.00088			4.0	3,100
	05/22/13	1540.00		<0.0020			4.5	3,300
PC-94	05/22/12	1535.14		0.031			9.0	4,500
	08/15/12	1534.80		0.028			9.1	4,800
	11/13/12	1537.60		0.011 J			12	5,000
	02/13/13	1536.23					12	5,100
	05/22/13	1535.84		0.036			11	6,100
PC-96	05/08/12	1544.75					3.8	3,000
	05/15/13	1545.61					6.4	3,500
PC-97	04/11/12	1542.43					1.0	2,500
	05/22/12	1542.20		0.0018 J			2.1	2,600
	06/11/12	1541.80					2.5	2,700
	07/09/12	1541.67						
	07/10/12						2.9	2,800

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-97	08/13/12	1541.68		<0.00088			3.3	3,000
	09/10/12	1543.88					3.6	3,000
	10/09/12	1543.97					4.0	2,900
	11/13/12	1543.75		<0.00088			3.7	2,900
	12/05/12	1543.60					3.8	2,900
	01/16/13	1543.43					4.3	2,900
	02/12/13	1543.42					4.1	2,800
	03/12/13	1543.43					4.0	2,800
	04/09/13	1543.32					4.3	2,600
	05/22/13	1543.04		<0.0020			5.3	3,000
06/10/13	1543.00					5.2	3,100	
PC-98R	04/12/12	1569.05					20	6,800
	05/24/12	1568.34		0.015			24	6,400
	06/21/12	1569.08					22	6,400
	07/11/12	1568.73					22	6,600
	08/14/12	1568.76		0.012			21	6,400
	09/11/12	1569.35					23	6,400
	10/10/12	1571.45					26	6,000
	11/14/12	1571.05		0.013 J			22	6,000
	12/06/12	1570.50					21	6,400
	01/17/13	1569.32					26	6,700
	02/13/13	1568.58					27	6,800
	03/13/13	1568.48					25	6,900
	04/11/13	1568.39					26	6,700
	05/23/13	1569.12		0.021 J			27	6,700
06/11/13	1569.28					23	6,600	
PC-99R2/R3	04/10/12	1538.35					14	4,600
	05/08/12	1537.88		0.0018 J			14	4,600
	06/05/12	1521.96					14	4,600
	07/02/12	1537.35					14	4,800
	08/06/12	1511.82		0.0019 J			14	4,600
	09/05/12	1523.30					16	5,100
	10/02/12						16	5,500
	10/09/12	1523.16						
	11/05/12	1515.85		0.0027 J			6.0	5,300
	12/04/12						16	5,100
	12/10/12	1515.97						
	01/03/13	1515.37		0.0017 J			16	4,800
	02/04/13	1516.61		0.0016 J			14	4,600
	03/05/13	1516.45					14	4,600
	04/02/13						16	4,300
04/15/13	1537.30							
05/06/13	1532.65		<0.0020			18	5,200	
06/03/13	1532.86					14	5,100	

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-101R	04/12/12	1588.77					140	10,000
	05/24/12	1588.20		0.092			160	9,900
	06/21/12	1588.46					150	10,000
	07/10/12	1588.04					150	10,000
	08/14/12	1588.30		0.094			150	10,000
	09/11/12	1588.93					160	9,500
	10/10/12	1589.29					170	9,800
	11/14/12	1589.39		0.060			150	10,000
	12/06/12	1589.21					150	10,000
	01/16/13	1588.84					170	10,000
	02/13/13	1588.56					160	9,600
	03/12/13						170	10,000
	03/13/13	1588.46						
	04/10/13	1590.28					180	9,900
	05/23/13	1588.38			0.090		150	10,000
06/11/13	1588.82					90	9,300	
PC-103	04/12/12	1574.93					17	5,200
	05/24/12	1575.31	1.9	0.0022 J		4.9	18	5,700
	06/21/12	1575.48					17	5,200
	07/11/12	1575.26					15	5,500
	08/15/12	1576.21		0.0027 J			16	5,000
	09/11/12	1575.59					15	4,400
	10/10/12	1577.31					14	4,200
	11/14/12	1576.79		0.00096 J			15	4,500
	12/06/12	1576.16					15	4,400
	01/07/13	1575.32						
	01/17/13						19	5,300
	02/13/13	1575.16					17	5,200
	03/13/13	1574.94					19	5,400
	04/10/13	1575.33					21	5,300
	05/23/13	1576.01			<0.0020		23	5,600
06/11/13	1575.98					18	5,300	
PC-107	05/09/12	1607.09					63	4,400
	05/08/13	1607.42					65	4,900
PC-108	05/08/12	1571.95					0.036	2,400
	05/22/13	1573.65					<0.00095	2,400
PC-110	05/08/12	1579.55					2.0	4,500
	05/22/13	1579.38					1.9	5,100
PC-115R	04/10/12	1546.10					7.8	3,400
	05/08/12	1545.94		<0.00088			7.8	3,400
	06/05/12	1540.47					7.6	3,300
	07/02/12	1540.26					8.5	3,500
	08/06/12	1540.19		0.0025 J			8.4	3,500
	09/05/12	1540.21					12	4,000
	10/02/12						14	4,400

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-115R	10/09/12	1540.04						
	11/05/12	1546.41		<0.00088			4.7	4,100
	12/04/12						12	4,700
	12/10/12	1545.92						
	01/03/13	1546.04		0.0014 J			10	3,600
	02/04/13	1542.30		0.00090 J			8.2	3,400
	03/05/13	1546.00					8.4	3,300
	04/02/13						10	3,300
	04/15/13	1542.03						
	05/06/13	1542.10		<0.0020			9.9	3,600
	06/03/13	1541.75					7.6	3,600
PC-116R	04/10/12	1537.59					9.3	4,200
	05/08/12	1537.19		<0.00088			11	4,200
	06/05/12	1535.19					11	4,200
	07/02/12	1537.02					11	4,400
	08/06/12	1535.00		0.0018 J			11	4,300
	09/05/12	1534.93					14	4,800
	10/02/12						14	5,100
	10/09/12	1535.12						
	11/05/12	1537.61		0.0016 J			5.2	4,900
	12/04/12						12	4,800
	12/10/12	1537.56						
	01/03/13	1537.79		0.0024 J			13	4,500
	02/04/13	1536.91		<0.00088			12	4,300
	03/05/13	1537.75					12	4,300
	04/02/13						15	4,100
	04/15/13	1536.34						
	05/06/13	1536.30		<0.0020			15	4,800
06/03/13	1536.29					11	4,700	
PC-117	04/10/12	1541.95					5.4	3,500
	05/08/12	1542.02		0.00093 J			6.3	3,400
	06/05/12	1536.86					6.2	3,500
	07/02/12	1536.63					6.6	3,600
	08/06/12	1536.65		0.0013 J			6.4	3,500
	09/05/12	1536.56					6.8	3,500
	10/02/12						6.3	3,500
	10/09/12	1536.65						
	11/05/12	1539.13		0.0015 J			6.2	3,500
	12/04/12						6.5	3,500
	12/10/12	1539.06						
	01/03/13	1538.24		0.0016 J			7.2	3,400
	02/04/13	1538.66		0.0011 J			6.7	3,400
	03/05/13	1538.09					7.2	3,500
04/02/13						9.5	3,400	
04/15/13	1538.43							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-117	05/06/13	1538.43		<0.0020			8.4	3,800
	06/03/13	1538.11					7.4	3,700
PC-118	04/10/12	1546.53					2.2	2,600
	05/08/12	1546.55		<0.00088			2.0	2,400
	06/05/12	1543.48					1.9	2,400
	07/02/12	1546.09					2.2	2,400
	08/06/12	1543.06		0.0076 J			2.0	2,400
	09/05/12	1543.23					3.5	2,600
	10/02/12						4.0	2,700
	10/09/12	1543.17						
	11/05/12	1545.97		0.00090 J			3.8	2,700
	12/04/12						3.5	2,700
	12/10/12	1545.93						
	01/03/13	1546.30		0.0013 J			3.8	2,700
	02/04/13	1544.98		<0.00088			3.3	2,600
	03/05/13	1546.13					3.0	2,600
	04/02/13	1544.83					2.8	2,400
05/06/13	1544.60		<0.0020			2.4	2,400	
06/03/13	1544.28					2.1	2,400	
PC-119	04/10/12	1547.93					0.31	2,100
	05/08/12	1547.75		0.002 J			0.56	2,100
	06/05/12	1545.96					0.56	2,100
	07/02/12	1548.50					0.46	2,100
	08/06/12	1545.49		0.0010 J			0.50	2,000
	09/05/12	1545.44					0.61	2,000
	10/02/12						0.70	2,100
	10/09/12	1545.59						
	11/05/12	1548.09		<0.00088			0.66	2,100
	12/04/12						0.60	2,100
	12/10/12	1547.98						
	01/03/13	1548.04		0.0015 J			0.70	2,200
	02/04/13	1547.28		<0.00088			0.73	2,100
	03/05/13	1548.16					0.70	2,200
	04/02/13	1547.22					1.2	2,100
05/06/13			<0.0020			1.1	2,200	
06/03/13	1547.16					0.91	2,200	
PC-120	04/10/12	1549.62					0.11	2,100
	05/08/12	1549.65		0.0018 J			0.15	2,100
	06/05/12	1547.86					0.67	2,200
	07/02/12	1549.60					0.67	2,200
	08/06/12	1547.63		<0.00088			0.67	2,100
	09/05/12	1547.64					0.68	2,100
	10/02/12						0.72	2,100
	10/09/12	1547.79						
11/05/12	1550.10		0.00068 J			0.79	2,200	

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April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-120	12/04/12						0.70	2,100
	12/10/12	1550.33						
	01/03/13	1549.76		0.0010 J			0.80	2,100
	02/04/13	1549.38		<0.00088			0.65	2,000
	03/05/13	1549.71					0.56	2,100
	04/02/13	1549.32					1.4	2,200
	05/06/13			<0.0020			1.3	2,300
	06/03/13	1549.14					1.1	2,200
PC-121	04/10/12	1549.10					0.25	2,100
	05/08/12	1549.04		0.001 J			0.28	2,200
	06/05/12	1547.44					0.88	2,200
	07/02/12	1547.22					0.85	2,200
	08/06/12	1547.18		0.0013 J			0.81	2,200
	09/05/12	1547.19					1.0	2,200
	10/02/12						0.98	2,200
	10/09/12	1547.67						
	11/05/12	1549.57		<0.00044			1.0	2,200
	12/04/12						0.80	2,200
	12/10/12	1549.45						
	01/03/13	1549.05		0.00057 J			1.2	2,300
	02/04/13	1548.94		<0.00088			1.2	2,100
	03/05/13	1549.03					1.2	2,200
	04/02/13	1548.90					1.2	2,100
	05/06/13	1548.78		<0.0020			0.95	2,300
06/03/13	1548.68					0.78	2,300	
PC-122	04/12/12	1584.74					20	9,600
	05/23/12	1584.58		0.18			23	9,700
	06/12/12	1584.56						
	06/21/12						22	10,000
	07/10/12	1584.72					20	7,600
	08/13/12	1584.61		0.18			22	10,000
	09/11/12	1585.07					18	7,700
	10/10/12	1585.52					24	9,600
	11/14/12	1585.75		0.16			21	9,500
	12/06/12	1585.70					21	9,000
	01/16/13	1585.50					23	9,100
	02/13/13	1585.31					24	9,400
	03/13/13	1585.18					23	9,100
	04/11/13	1586.10					23	8,700
	05/23/13	1585.03		0.19			21	11,000
06/11/13	1585.00					22	9,700	
PC-123	05/07/12	1603.26		1.3			350	6,900
	08/06/12	1603.51		1.3			310	6,900
	11/05/12	1602.64		1.3			290	6,800

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-123	02/04/13	1603.67		1.2			310	6,600
	05/06/13	1603.60		1.2			270	7,500
PC-124	05/07/12	1610.23	150	0.066		24	8.0	7,500
	08/06/12	1610.38		0.081			7.3	8,100
	11/05/12	1610.45		0.077			7.8	8,300
	02/04/13	1610.85		0.094			7.9	7,800
	05/06/13	1610.63	160	0.068		24	9.0	9,500
PC-125	05/07/12	1611.34		0.046			7.1	7,400
	08/06/12	1611.58		0.14			7.3	8,000
	11/05/12	1612.15		0.069			8.6	8,000
	02/04/13	1609.91		0.072			8.6	7,800
	05/06/13	1611.76		0.063			9.1	8,900
PC-126	05/07/12	1611.74	270	0.17		38	29	9,600
	08/06/12	1611.87		0.20			23	9,900
	11/05/12	1612.42		0.22			26	10,000
	02/04/13	1612.33		0.22			27	9,700
	05/06/13	1612.13	280	0.22		33	31	11,000
PC-127	05/07/12	1613.20		1.2			350	6,700
	08/06/12	1613.32		1.3			320	7,000
	11/05/12	1613.91		1.2			320	6,700
	02/04/13	1613.82		1.2			320	6,400
	05/06/13	1613.62		1.1			300	7,300
PC-128	05/08/12	1614.48	370	0.31		22	300	5,700
	08/06/12	1614.94		0.35			260	5,800
	11/05/12	1615.18		0.36			270	5,800
	02/04/13	1615.06		0.38			300	5,800
	05/06/13	1614.85	430	0.41		17	300	6,600
PC-129	05/07/12	1615.18		0.98			510	6,900
	08/06/12	1615.51		1.0			460	7,400
	11/05/12	1615.68		1.0			450	7,100
	02/04/13	1615.87		0.99			440	7,000
	05/06/13	1615.45		0.96			260	7,700
PC-130	05/07/12	1613.70	780	0.98		38	560	7,600
	08/06/12	1614.00		1.0			480	7,600
	11/05/12	1614.06		0.98			470	7,400
	02/04/13	1614.30		0.91			440	7,200
	05/06/13	1614.00	620	0.89		31	530	7,700
PC-131	05/07/12	1622.37		0.0012 J			4.1	8,700
	08/06/12	1622.45		<0.00088			3.2	9,000
	11/05/12	1623.03		0.0014 J			3.6	8,700
	02/04/13	1622.80		0.0020 J			4.3	9,300
	05/06/13	1622.68		<0.0020			4.7	9,600
PC-132	05/07/12	1624.95	0.72	<0.00088		1.2	1.4	8,500
	08/06/12	1625.18		0.0024 J			1.1	8,700
	11/05/12	1625.33		0.0029 J			2.4	8,800

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-132	02/04/13	1625.36		0.0036 J			2.5	9,000
	05/06/13	1625.23	1.1	<0.0020		1.7 J	1.7	8,900
PC-133	04/10/12						0.65	2,400
	05/08/12			<0.00088			0.63	2,400
	06/05/12						6.4	3,200
	08/06/12			0.0019 J			7.3	3,300
	09/05/12						9.0	3,400
	10/02/12						10	3,900
	11/05/12			0.0014 J			11	3,900
	12/04/12						13	4,100
	01/03/13			0.0020 J			15	5,700
	02/04/13			<0.00088			16	5,800
	03/05/13						12	4,400
	04/02/13						12	4,000
05/06/13				0.0023 J			10	3,900
06/03/13							8.1	3,800
PC-134A	05/17/12	1588.97		0.021			32	7,700
	05/07/13	1589.04		<0.0020			13	7,700
PC-135A	05/17/12	1588.60		0.017 J			33	8,500
	08/07/12	1588.67						
	08/08/12			0.0066 J			19	8,800
	11/06/12	1589.87		0.0093 J			18	8,800
	02/05/13	1589.07		0.012 J			32	8,900
	05/07/13	1588.73		<0.0020			19	8,500
PC-136	05/17/12	1583.68		4.6			120	6,600
	08/07/12	1583.73						
	08/08/12			4.3			130	6,700
	11/06/12	1584.82		1.7			100	6,800
	02/05/13	1584.38		4.5			51	6,000
	05/07/13	1584.11		5.2			72	6,500
PC-137	05/17/12	1586.06		0.0018 J			0.27	2,800
	05/07/13	1582.69		<0.0020			0.29	2,900
PC-142	05/24/12	1591.35		0.0019 J			14	5,700
	05/07/13	1591.54		<0.0020			21	5,600
PC-143	05/22/12	1588.66		0.0019 J			2.0	7,500
	05/07/13	1588.10		<0.0020			2.7	8,100
PC-144	05/24/12	1587.48		0.56			350	6,300
	07/10/12	1587.29						
	08/07/12	1587.72						
	08/08/12			0.51			320	6,400
	09/11/12	1588.38						
	10/09/12	1588.68						
	11/06/12	1588.88		0.60			330	6,300
	12/06/12	1587.33						
01/16/13	1588.21							

TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
April 2012 - June 2013
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
PC-144	02/05/13	1588.04		0.72			320	6,400
	04/10/13	1587.77						
	05/07/13	1587.71		0.52			320	7,100
PC-145	05/23/12	1583.34		0.60			120	8,600
	05/07/13	1583.81		0.43			74	9,200
PC-147	05/17/12	1585.69						
	05/07/13	Dry						
PC-148	05/17/12	1588.77		0.027			32	7,500
	08/07/12	1588.78						
	08/08/12			0.023			30	7,400
	11/06/12	1589.93		0.025			32	7,400
	02/05/13	1589.28		0.021			33	7,200
PC-149	05/07/13	1588.60		0.0098			51	7,400
	05/17/12	1588.73		0.0061 J			22	4,100
	08/07/12	1588.88						
	08/08/12			0.0073 J			17	4,100
	11/06/12	1590.10		0.012 J			22	4,400
	02/05/13	1589.30		0.0091 J			22	4,700
PC-150	05/07/13	1588.98		0.0044 J			23	4,400
	05/17/12	1588.73		0.25			250	5,800
	08/07/12	1588.69						
	08/08/12			0.24			200	6,000
	11/06/12	1589.88		0.25			210	5,800
	02/05/13	1589.14		0.22			190	5,800
	(FD)			0.22			200	5,900
05/07/13	1588.73		0.21			200	6,600	
TR-1	05/22/12			0.017 J			<0.000254	740
	05/21/13	1752.18		0.015			<0.00095	740
TR-2	05/22/12	1725.61		0.021			<0.000254	580
	05/20/13	1726.64		0.022			<0.00095	570
TR-3	05/22/12	1790.14		0.016 J			<0.000254	670
	05/21/13	1772.84		0.015			0.0012	700
TR-4	05/22/12	1736.41		0.025			0.0013 J	740
	05/21/13	1737.25		0.022			<0.0048	740
TR-5	05/22/12	1800.27		0.016 J			<0.000254	750
	05/22/13	1800.27		0.017			<0.00095	790
TR-6	05/22/12	1762.68		0.026			0.34	28,000
	05/22/13	1763.84		0.022 J			0.33	22,000
TR-7	05/22/12	1817.27		0.013 J			<0.000254	830
	(FD)			0.013 J			<0.000254	820
	05/23/13	1818.10		0.013			<0.0019	810
TR-8	05/22/12	1778.78		0.015 J			0.096	1,200
	05/23/13	1779.55		0.016			0.095 J+	1,300
TR-9	05/21/12	1816.69		0.013 J			<0.000254	780
	05/23/13	1817.47		0.011			0.0024 J+	820

**TABLE A-1: Groundwater Elevation and Analytical Data for Five Quarters
 April 2012 - June 2013
 Nevada Environmental Response Trust Site
 Henderson, Nevada**

Well ID Units	Collection Date	GW Elevation (ft amsl)	Chlorate (mg/L)	Chromium (mg/L)	Chromium VI (mg/L)	Nitrate (mg/L)	Perchlorate (mg/L)	TDS (mg/L)
TR-10	05/21/12	1793.94		0.13			2.8	2,000
	05/23/13	1794.36		0.13			3.1	2,100
TR-11	05/24/12	1725.25		0.015			<0.000254	720
	05/22/13	1716.55		0.015			<0.00095	760
	(FD)			0.015			<0.00095	770
TR-12	05/24/12	1694.33		0.048			<0.000254	530
	05/22/13	1695.47		0.048			<0.00095	550

Notes:

- FD = field duplicate
- ft amsl = feet above mean sea level
- J = Concentration is estimated
- J- = Estimated concentration, potential negative bias
- J+ = Estimated concentration, potential positive bias
- mg/L = milligrams per liter
- < = Concentration is less than indicated laboratory method reporting limit

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2013 ANNUAL REPORT
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (mg/L)	Chromium (mg/L)	Perchlorate (mg/L)	TDS ¹ (mg/L)	Nitrate (as N) (mg/L)
AA-01	TIMET	--	NA	NA	0.016 J-	--	--	7.2 J
AA-09	TIMET	1657.68	NA	NA	0.110 J-	8.1	6200	15
AA-20	TIMET	1597.25	NA	NA	0.045 J-	4.9 J	5900	9.7 J
AA-MW-13R	OSSM	1770.69	NA	NA	0.011	0.27	110000	<11
AA-MW-14	OSSM	1774.28	NA	NA	0.00021 J	0.15	13000	5.4 J
AA-MW-24	OSSM	1793.59	NA	NA	0.0073	0.057	2600	1.3
APX-1-45	AMPAC	1608.30	<0.080	NA	NA	0.3	2011	1.2
APX-2-45	AMPAC	1603.94	<0.080	NA	NA	0.18	2139	0.55
APX-4-20	AMPAC	1607.45	2.5	NA	NA	16	3855	7.9
APX-5-7	AMPAC	1606.40	9.4	NA	NA	55	4565	17
B-01	OSSM	1768.32	NA	NA	<0.0005	0.061	22000	11
BHE1-10	AMPAC	1670.83	480	NA	NA	330	5748	41
BMI-AA08	AMPAC	1567.97	0.6	NA	NA	3.3	4412	6.3
BMI-AA10	AMPAC	1595.63	0.6	NA	NA	2.8	4299	7.2
CLD4-R	TIMET	1745.24	NA	0.260	0.390 J-	2 J	5500	9.9 J
CMT-101	TIMET	1718.09	NA	0.069	0.100 J-	1.4	4300	9.4
CP-01	OSSM	1795.19	NA	NA	0.011	0.0051	740	1.2
DBMW-1	TIMET	1590.67	NA	NA	0.0470	7.7	6000	9.6
DBMW-3	TIMET	1591.90	NA	NA	0.0590	9.7 J	9000	14 J
DBMW-4	TIMET	1579.68	NA	NA	0.0690	5.3	5600	23
DBMW-5	TIMET	1581.53	NA	NA	0.0850	6	5300	22
EC-03	OSSM	1763.92	NA	NA	<0.0005	0.0014	18000	<5.5
EC-04	OSSM	1766.23	NA	NA	0.0049	0.16	3400	1.6
EC-07	OSSM	1746.23	NA	NA	0.0025	0.0049	11000	1.8 J
H-11	OSSM	--	NA	NA	--	--	--	<0.11
H-21R	OSSM	1699.57	NA	NA	NA	NA	NA	NA
H-49A	OSSM	1663.39	NA	NA	<0.0025	0.035	14000	<5.5
H-55	OSSM	1711.37	NA	NA	<0.0005	0.0071	1800	<0.55
J2D1-R2	TIMET	1730.63	NA	0.074	0.061 J-	1.8	5500	14
J2D2-R2	TIMET	1727.54	NA	0.067	0.061 J-	0.71	5700	42
J2D4	TIMET	1737.26	NA	0.250	0.200 J-	3.8 J	9400	42 J
J2U2	TIMET	1753.89	NA	0.097	0.088 J-	0.48	4600	33
M-125	OSSM	--	NA	NA	0.006	--	--	7.4
M-142	OSSM	--	NA	NA	--	--	--	8.1
M-7B	OSSM	--	NA	NA	--	--	--	2.1 J
MC-09R	OSSM	1686.75	NA	NA	0.00094	0.11	15000	1.1
MC-48	OSSM	1679.75	NA	NA	NA	NA	NA	NA
MC-58	OSSM	1684.92	NA	NA	NA	NA	NA	NA
MC-61	OSSM	1674.98	NA	NA	NA	NA	NA	NA
MC-62	OSSM	1670.05	NA	NA	NA	NA	NA	NA
MC-MW-09	OSSM	1778.78	NA	NA	0.0039	0.00033 J	720	0.41
MC-MW-10	OSSM	1747.21	NA	NA	<0.0005	0.0012	23000	<2.2
MW-AJ	AMPAC	1642.50	8.6	NA	NA	51	4984	16
MW-AJ	OSSM	1642.36	NA	NA	<0.0005	47	5000	15
MW-J	AMPAC	1659.69	6.1	NA	NA	42	5041	5.8
MW-K1	AMPAC	1625.08	<0.080	NA	NA	1.4	NA ²	<0.017
MW-R	AMPAC	1657.32	12	NA	NA	60	4629	15
MW-R	OSSM	1657.39	NA	NA	0.00035 J	59	5000	15
MW-S	AMPAC	1585.07	1.7	NA	NA	12	NA ²	4.9
MW-T	AMPAC	1576.99	0.3	NA	NA	1.2	3801	4.4
PC-107	AMPAC	--	10	NA	NA	--	--	20
PC-24	TIMET	--	NA	NA	--	--	--	36

TABLE A-2: SUPPLEMENTAL DATA USED IN PREPARATION OF THE 2013 ANNUAL REPORT
Nevada Environmental Response Trust Site
Henderson, Nevada

Well ID	Data Source	GW Elevation (ft amsl)	Chlorate (mg/L)	Hexavalent Chromium (mg/L)	Chromium (mg/L)	Perchlorate (mg/L)	TDS ¹ (mg/L)	Nitrate (as N) (mg/L)
PC-54	TIMET	--	NA	NA	--	--	--	43 J
PMW-8	AMPAC	1567.83	0.2	NA	NA	0.16	4348	8.7
POU-3	TIMET	1689.30	NA	NA	0.360 J-	29 J	8800	13 J
RIT-06	AMPAC	1569.43	1	NA	NA	4.3	3592	5.8
RIT-10	AMPAC	1568.74	0.6	NA	NA	2.4	3832	6.5
3R	TIMET	1788.66	NA	0.019	0.0160	0.47 J	4600	6.1 J
TIMETMW-4	TIMET	1749.11	NA	0.012	0.0130	0.17	3100	3.4
TIMETMW-5	TIMET	1762.94	NA	0.014	0.0150	0.46	3900	8.9
6R	TIMET	1769.01	NA	0.079	0.078 J-	1.4 J	3000	5.4 J
TMPZ-105	TIMET	1702.76	NA	0.880	0.760 J-	40 J	7600	30 J
TMPZ-106	TIMET	1710.76	NA	0.340 J-	NA	2.3	9100	NA
TMPZ-107	TIMET	1713.45	NA	0.400	0.310 J-	2.6 J	16000 J	72 J
TMPZ-108	TIMET	1717.02	NA	0.330	NA	2.8	13000	NA
TMPZ-109	TIMET	1720.69	NA	0.039 J-	NA	0.68	5400	NA
TMPZ-110	TIMET	1725.20	NA	<0.010	0.008 J-	1.7 J	5900	7.2 J
TWB-21	AMPAC	1642.43	14	NA	NA	69	4806	22
TWC-15	AMPAC	1638.88	13	NA	NA	78	4723	21
TWE-15	AMPAC	1624.62	6.5	NA	NA	49	5140	14
TWI	AMPAC	1643.07	7.4	NA	NA	56	4938	17
UXO-16	AMPAC	1571.45	0.3	NA	NA	0.83	4157	7.1
UZO-17	AMPAC	1569.83	0.5	NA	NA	2.2	NA	5.5
WMW-5.7N	SNWA	NR	NA	NA	<0.015	0.021	1400	11
WMW-6.15S	SNWA	NR	NA	NA	<0.015	1.7	3150	0.7

Notes:

Data in this table have been provided by others. ENVIRON and the Trust have not independently verified these data.

AMPAC = American Pacific Corporation

OSSM = Olin Chlor-Alkali/Stauffer/Syngenta/Montrose

SNWA = Southern Nevada Water Authority

TIMET = Titanium Metals Corporation

NA = Not analyzed

NR = Not recorded

-- = Result is available from the NERT site sampling and is presented in Table A-1

gpm = gallons per minute

mg/L = milligrams per liter

ft amsl = feet above mean sea level

< = Concentration is less than indicated laboratory method reporting limit

J = Concentration is estimated

J- = Estimated concentration, potential negative bias

¹ AMPAC's TDS results were converted from field specific conductivity measurements using a conversion factor of 0.707

² Specific Conductivity was analyzed, but results were beyond the field instrument's range.

Appendix B
Electronic Data Deliverable (EDD)
(Database files provided electronically or on CD separately)

Appendix C
Data Validation Summary Report (DVSR)

Data Validation Summary Report
January to June 2013
Annual Remedial Performance Sampling
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

Prepared for

ENVIRON International Corporation
Emeryville, California

Prepared by

Laboratory Data Consultants, Inc.
7750 El Camino Real, Suite 2C
Carlsbad, California 92009

August 19, 2013

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ATTACHMENT

ATTACHMENT A – Metals Data Validation Report

ATTACHMENT B – Wet Chemistry Data Validation Report

LIST OF ACRONYMS AND ABBREVIATIONS

DQO	Data Quality Objectives
DUP	Duplicate
DVSR	Data Validation Summary Report
ICV	Initial Calibration Verification
LCS/LCSD	Laboratory Control Sample / Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants, Inc.
MS/MSD	Matrix Spike / Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Comparability, Completeness
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
SDG	Sample Delivery Group
SQL	Sample Quantitation Limit
ug/L	Micrograms per Liter
ug/Kg	Micrograms per Kilogram
mg/L	Milligram per Liter
mg/Kg	Milligram per Kilogram
USEPA	United States Environmental Protection Agency
%D	Percent Difference
%R	Percent Recovery

1.0 INTRODUCTION

This data validation summary report (DVSR) has been prepared by Laboratory Data Consultants, Inc. (LDC) to assess the validity and usability of laboratory analytical data from the Annual Remedial Performance Sampling conducted at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada. The assessment was performed by ENVIRON as a part of the *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada* dated May 2009 and included the collection and analyses of 576 environmental and quality control (QC) samples. The analyses were performed by the following methods:

Chromium by EPA SW 846 Method 6010 and EPA Method 200.7

Wet Chemistry:

Hexavalent Chromium by EPA SW 846 Method 7196 and EPA Method 218.6

Perchlorate by EPA Method 314.0

Total Dissolved Solids by Standard Method 2540C and EPA Method 160.1

Laboratory analytical services were provided by Eurofins and TestAmerica, Inc.. The samples were grouped into sample delivery groups (SDGs). The water samples are associated with QA/QC samples designed to document the data quality of the entire SDG or a sub-group of samples within an SDG. Table I is a cross-reference table listing each sample, analysis, SDG, collection date, laboratory sample number, and matrix. All shaded samples in Table I were reviewed under Stage 4 validation guidelines.

The laboratory analytical data were validated in accordance with procedures described in the Nevada Division of Environmental Protection (NDEP) *Data Verification and Validation Requirements - Supplement* established for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada, April 13, 2009. Consistent with the NDEP requirements, approximately ninety percent of the analytical data were validated according to Stage 2A data validation procedures and ten percent of the analytical data were validated according to Stage 4 data validation procedures. The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *Basic Remediation Company (BRC) Standard Operating Procedures (SOP) 40 Data Review/Validation*, Revision 1, July 2007, *Revised Phase B Quality Assurance Project Plan Tronox LLC Facility, Henderson, Nevada (QAPP)*, Revision, May 2009, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004, and the *EPA SW 846 Third Edition, Test Methods for Evaluating Solid Waste*, update I, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IV, February 2007.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability (PARCC) relative to the project data quality objectives (DQOs). This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability.

The PARCC summary report evaluates and summarizes the results of QA/QC data validation for the entire sampling program. Each analytical fraction has a separate section for each of the PARCC criteria. These sections interpret specific QC deviations and their effects on both individual data points and the analyses as a whole. Section 5.0 presents a summary of the PARCC criteria by comparing quantitative parameters with acceptability criteria defined in the project DQO's. Qualitative PARCC criteria are also summarized in this section.

Precision and Accuracy of Environmental Data

Environmental data quality depends on sample collection procedures, analytical methods and instrumentation, documentation, and sample matrix properties. Both sampling procedures and laboratory analyses contain potential sources of uncertainty, error, and/or bias, which affect the overall quality of a measurement. Errors for sample data may result from incomplete equipment decontamination, inappropriate sampling techniques, sample heterogeneity, improper filtering, and improper preservation. The accuracy of analytical results is dependent on selecting appropriate analytical methods, maintaining equipment properly, and complying with QC requirements. The sample matrix also is an important factor in the ability to obtain precise and accurate results within a given media.

Environmental and laboratory QA/QC samples assess the effects of sampling procedures and evaluate laboratory contamination, laboratory performance, and matrix effects. QA/QC samples include: equipment blanks, field blanks, field duplicates, method blanks, laboratory control samples and laboratory control sample duplicates (LCS/LCSDs), laboratory duplicates (DUP), and matrix spike/matrix spike duplicates (MS/MSDs).

Before conducting the PARCC evaluation, the analytical data were validated according to the BRC SOP-40 (July 2007), QAPP (May 2009), Functional Guidelines (USEPA 2004), and EPA SW 846 Test Methods. Samples not meeting the acceptance criteria were qualified with a flag, an abbreviation indicating a deficiency with the data. The following are flags used in data validation.

- J- Estimated The associated numerical value is an estimated quantity with a negative bias. The analyte was detected but the reported value may not be accurate or precise.
- J+ Estimated The associated numerical value is an estimated quantity with a positive bias. The analyte was detected but the reported value may not be accurate or precise.
- J Estimated The associated numerical value is an estimated quantity. It is not possible to assess the direction of the potential bias. The analyte was detected but the reported value may not be accurate or precise. The "J" qualification indicates the data fell outside the QC limits, but the exceedance was not sufficient to cause rejection of the data.
- R Rejected The data is unusable (the compound or analyte may or may not be present). Use of the "R" qualifier indicates a significant variance from functional guideline acceptance criteria. Either resampling or reanalysis is necessary to determine the presence or absence of the rejected analyte. The "R" designation is also applied to yield only one complete set of data for a given sample and eliminate redundant data.
- U Nondetected Analyses were performed for the compound or analyte, but it was not detected. The "U" designation is also applied to suspected blank contamination. The "U" flag is used to qualify any result that is detected in an environmental sample and associated blank at less than the PQL.
- UJ Estimated/Nondetected Analyses were performed for the compound or analyte, but it was not detected and the sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate, or other spike recovery.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.
- A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

The hierarchy of flags is listed below:

R > J	The R flag will always take precedence over the J qualifier.
J > J+ or J-	A non-biased (J) flag will always supersede biased (J+ or J-) flags since it is not possible to assess the direction of the potential bias.
J = J+ plus J-	Adding biased (J+, J-) flags with opposite signs will result in a non-biased flag (J).
UJ = U plus J or J+ or J-	The UJ flag is used when a non-detected (U) flag is added to a biased (J+ or J-) or non-biased flag (J).

Table II lists the reason codes used. Reason codes explain why flags have been applied and identify possible limitations of data use. Reason codes are cumulative except when one of the flags is R then only the reason code associated to the R flag will be used.

Table III presents the overall qualified results after all the flags or validation qualifiers and associated reason codes have been applied.

Once the data are reviewed and qualified according to the BRC SOP-40, QAPP, functional guidelines, and EPA Test Methods, the data set is then evaluated using PARCC criteria. PARCC criteria provide an evaluation of overall data usability. The following is a discussion of PARCC criteria as related to the project DQOs.

Precision is a measure of the agreement or reproducibility of analytical results under a given set of conditions. It is a quantity that cannot be measured directly but is calculated from percent recovery data. Precision is expressed as the relative percent difference (RPD):

$$RPD = (D1-D2)/\{1/2(D1+D2)\} \times 100$$

where:

D1 = reported concentration for the sample

D2 = reported concentration for the duplicate

Precision is primarily assessed by calculating an RPD from the percent recoveries of the spiked compounds for each sample in the MS/MSD pair. In the absence of an MS/MSD pair, a laboratory duplicate or LCS/LCSD pair can be analyzed as an alternative means of assessing precision. An additional measure of sampling precision was obtained by collecting and analyzing field duplicate samples, which were compared using the RPD result as the evaluation criteria.

MS and MSD samples are field samples spiked by the laboratory with target analytes prior to preparation and analysis. These samples measure the overall efficiency of the analytical method in recovering target analytes from an environmental matrix. A LCS is similar to an MS/MSD sample in that the LCS is spiked with the same target analytes prior to preparation and analysis. However, the LCS is prepared using a controlled interference-free matrix instead of a field sample aliquot. Laboratory reagent water is used to prepare aqueous LCS. The LCS measures laboratory efficiency in recovering target analytes from either an aqueous matrix in the absence of matrix interferences.

One primary sample is analyzed and accompanied by an unspiked laboratory duplicate. The data reviewer compares the reported results of the primary analysis and the laboratory duplicate, then calculates RPDs, which are used to assess laboratory precision.

Laboratory and field sampling precision are evaluated by calculating RPDs for aqueous field sample duplicate pairs. The sampler collects two field samples at the same location and under identically controlled conditions. The laboratory then analyzes the samples under identical conditions.

An RPD outside the numerical QC limit in either MS/MSD samples or LCS/LCSD indicates imprecision. Imprecision is the variance in the consistency with which the laboratory arrives at a particular reported result. Thus, the actual analyte concentration may be higher or lower than the reported result.

Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability. In some duplicate pairs, results maybe reported in either the primary or duplicate samples at levels below the practical quantitation limit (PQL) or non-detected. Since these values are considered to be estimates, RPD exceedances from these duplicate pairs do not suggest a significant impact on the data quality.

Accuracy is a measure of the agreement of an experimental determination and the true value of the parameter being measured. It is used to identify bias in a given measurement system. Recoveries outside acceptable QC limits may be caused by factors such as instrumentation, analyst error, or matrix interference. Accuracy is assessed through the analysis of MS, MSD, LCS, and LCSD. In some cases, samples from multiple SDGs were within one QC batch and therefore are associated with the same laboratory QC samples. Accuracy of inorganic analyses is determined using the percent recoveries of MS and LCS analyses.

Percent recovery (%R) is calculated using the following equation:

$$\%R = (A-B)/C \times 100$$

where:

A = measured concentration in the spiked sample

B = measured concentration of the spike compound in the unspiked sample

C = concentration of the spike

The percent recovery of each analyte spiked in MS/MSD samples and LCS/LCSD is evaluated with the acceptance criteria specified by the previously noted documents. Spike recoveries outside the acceptable QC accuracy limits provide an indication of bias, where the reported data may overestimate or underestimate the actual concentration of compounds detected or quantitation limits reported for environmental samples.

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. It is evaluated by reviewing the QC results of blanks, samples and holding times. Positive detects of compounds in the blank samples identify compounds that may have been introduced into the samples during sample collection, transport, preparation, or analysis. The QA/QC blanks collected and analyzed are method blanks, equipment blanks and field blanks.

A method blank is a laboratory grade water or solid matrix that contains the method reagents and has undergone the same preparation and analysis as the environmental samples. The method blank provides a measure of the combined contamination derived from the laboratory source water, glassware, instruments, reagents, and sample preparation steps. Method blanks are prepared for each sample of a similar matrix extracted by the same method at a similar concentration level.

Initial and continuing calibration blanks consist of acidified laboratory grade water, which are injected at the beginning and at a regular frequency during each 12 - hour sample analysis run. These blanks estimate residual contaminants from the previous sample or standards analysis and measure baseline shifts that commonly occur in emission and absorption spectroscopy. Initial and continuing calibration blanks were only reviewed for samples on which Stage 4 review was performed.

Equipment blanks consist of analyte-free water poured over or through the sample collection equipment. The water is collected in a sample container for laboratory analysis. These blanks are collected after the sampling equipment is decontaminated and measure efficiency of the decontamination procedure. Equipment blanks were collected and analyzed for all target analytes.

Field blanks consist of analyte-free source water stored at the sample collection site. The water is collected from each source water used during each sampling event. Field blanks were collected and analyzed for all target analytes.

Contaminants found in both the environmental sample and the blank samples are assumed to be laboratory artifacts if both values are less than the PQL.

Holding times are evaluated to assure that the sample integrity is intact for accurate sample preparation and analysis. Holding times will be specific for each method and matrix analyzed. Holding time exceedance can cause loss of sample constituents due to biodegradation, precipitation, volatilization, and chemical degradation. In accordance with EPA guidance (USEPA 2004), sample results for analyses that were performed after the method holding time but less than two times the method holding time were qualified as estimated (J- or UJ) and sample results for analyses that were performed after two times the method holding time were qualified as rejected (R).

Comparability is a qualitative expression of the confidence with which one data set may be compared to another. It provides an assessment of the equivalence of the analytical results to data obtained from other analyses. It is important that data sets be comparable if they are used in conjunction with other data sets. The factors affecting comparability include the following: sample collection and handling techniques, matrix type, and analytical method. If these aspects of sampling and analysis are carried out according to standard analytical procedures, the data are considered comparable. Comparability is also dependent upon other PARCC criteria, because only when precision, accuracy, and representativeness are known can data sets be compared with confidence.

Completeness is defined as the percentage of acceptable sample results compared to the total number of sample results. Completeness is evaluated to determine if an acceptable amount of usable data were obtained so that a valid scientific site assessment can be completed. Completeness equals the total number of sample results for each fraction minus the total number of rejected sample results divided by the total number of sample results multiplied by 100. As specified in the project DQOs, the goal for completeness for target analytes in each analytical fraction is 90 percent.

Percent completeness is calculated using the following equation:

$$\%C = (T - R)/T \times 100$$

where:

%C = percent completeness

T = total number of sample results

R = total number of rejected sample results

Completeness is also determined by comparing the planned number of samples per method and matrix as specified in the QAPP, with the number determined above.

The following sections present a review of QC data for each analytical method.

2.0 CHROMIUM

A total of 364 water samples were analyzed for chromium by EPA SW 846 Method 6010 and EPA Method 200.7. All metal data were assessed to be valid since none of the 364 total results were rejected based on holding time and QC exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

2.1 Precision and Accuracy

2.1.1 Instrument Calibration

Initial and continuing calibration verification results provide a means of evaluating accuracy within a particular SDG. Correlation coefficient (r) and percent recovery (%R) are the two major parameters used to measure the effectiveness of instrument calibration. The correlation coefficient indicates the linearity of the calibration curve. %R is used to verify the ongoing calibration acceptability of the analytical system.

The most critical of the two calibration parameters, r, has the potential to affect data accuracy across an SDG when it is outside the acceptable QC limits. %R exceedances suggest more routine instrumental anomalies, which typically impact all sample results for the affected analytes.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

2.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met acceptance criteria.

2.1.3 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met acceptance criteria.

2.1.4 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. The field duplicate RPDs or differences were within the acceptance criteria. The field duplicate RPDs or differences are presented in detail in Attachment A, Section XIV.

2.1.5 ICP Interference Check Sample

All ICP interference check %Rs met acceptance criteria for the Stage 4 samples.

2.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

2.2 Representativeness

2.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All samples met the 180-day analysis holding time criteria for chromium.

2.2.2 Blanks

Method blanks, initial and continuing calibration blanks, equipment blanks, and field blanks were analyzed to evaluate representativeness. The concentration for an individual target compound in any of the types of QA/QC blanks was used for data qualification.

If contaminants were detected in a blank, corrective actions were made for the chemical analytical data during data validation. The corrective action consisted of amending the laboratory reported results based on the following criteria.

Results Below the PQL If a sample result and blank contaminant value were less than the PQL, the sample result was amended as estimated (J) at the concentration reported in the sample results.

Results Above the PQL If a sample result and blank contaminant value were greater than the PQL and less than 10 times the blank contaminant value, the sample result was qualified as detected estimated (J+) at the concentration reported in the sample results.

No Action If blank contaminant values were less than the PQL and associated sample results were greater than the PQL, or if blank contaminant values were greater than the PQL and associated sample results were greater than 10 times the blank contaminant value, the result was not amended.

2.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

2.2.2.2 Equipment and Field Blanks

No data were qualified due to contaminants detected in the equipment blanks for this analysis.

2.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the Sample Quantitation Limits (SQLs) attained were at or below the PQLs. Methods 6010 and 200.7 both utilize multielemental determinations by inductively coupled plasma-atomic emission spectrometry using simultaneous optical systems and axial or radial viewing of the plasma, the comparability of the metals data is regarded as acceptable.

2.4 Completeness

The completeness level attained for chromium field samples was 100 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

3.0 WET CHEMISTRY

A total of 26 water samples were analyzed for hexavalent chromium by EPA SW 846 Method 7196 and EPA Method 218.6; 574 water samples were analyzed for perchlorate by EPA Method 314.0; and 575 water samples were analyzed for total dissolved solids by Standard Method 2540C and EPA Method 160.1. All wet chemistry data were assessed to be valid with the exception of three of the 1,175 total results which were rejected based on holding time exceedances. This section discusses the QA/QC supporting documentation as defined by the PARCC criteria and evaluated based on the DQOs.

3.1 Precision and Accuracy

3.1.1 Instrument Calibration

As previously discussed in Section 2.1.1, initial and continuing calibration results provide a means of evaluating accuracy.

The correlation coefficients in the initial calibrations were within the acceptance criteria of ≥ 0.995 and the %Rs in the continuing calibration verifications met the acceptance criteria of 90-110%.

3.1.2 MS/MSD Samples

All MS/MSD %Rs and RPDs met the acceptance criteria

3.1.3 Duplicate (DUP) Samples

All DUP RPDs met the acceptance criteria.

3.1.4 LCS/LCSD Samples

All LCS/LCSD %Rs and RPDs met the acceptance criteria.

3.1.5 Field Duplicate Samples

The field duplicate samples were evaluated for acceptable precision with RPDs or difference in instances the results were less than five times the reporting limit for the compounds. Two perchlorate results were qualified as detected estimated (J) due to RPD outside of acceptance criteria in field duplicate pair M-23 and VD-6. The details regarding the qualification of results are presented in Attachment B, Section X.

3.1.6 Analyte Quantitation and Target Identification

Raw data were evaluated for the Stage 4 samples. All analyte quantitation and target identifications were acceptable.

3.2 Representativeness

3.2.1 Sample Preservation and Holding Times

The evaluation of holding times to verify compliance with the method was conducted. All water samples met the 28-day analysis holding time criteria for perchlorate.

Due to a severe holding time criteria exceedance, the hexavalent chromium results for samples EB-1 (sampled on 2/5/13), EB-2 (sampled on 2/6/13), and M-37 (sampled on 2/6/13) were qualified as rejected (R). Additionally, 13 results for hexavalent chromium and total dissolved solids were qualified as

detected estimated (J-) or non-detected estimated (UJ). The analysis holding time criteria for water samples is 24 hours for hexavalent chromium and 7 days for total dissolved solids. The details regarding the qualification of results are presented in Attachment B, Section I.

3.2.2 Blanks

As previously discussed in Section 2.2.2, method blanks, initial and calibration blanks, equipment blanks, and field blanks were analyzed to evaluate representativeness.

3.2.2.1 Method and Calibration Blanks

No contaminants were detected in the method or calibration blanks for this analysis.

3.2.2.2 Equipment and Field Blanks

The perchlorate results in samples M-153 (sampled on 5/23/13), TR-8 (sampled on 5/23/13), and TR-9 (sampled on 5/23/13) were qualified as detected estimated (J+) due to contaminants detected in the equipment blanks. The details regarding the qualification of results are presented in Attachment B, Section IV.

3.3 Comparability

The laboratory used standard analytical methods for all of the analyses. In all cases, the SQLs attained were at or below the PQLs. Methods 160.1 and 2540C both utilize a well-mixed sample filtered through a glass fiber filter and the residue retained on the filter is dried to constant weight at 103-105°C, the comparability of the total dissolved solids data is regarded as acceptable.

3.4 Completeness

The completeness level attained for wet chemistry field samples was 99.7 percent. This percentage was calculated as the total number of accepted sample results divided by the total number of sample results multiplied by 100.

4.0 VARIANCES IN ANALYTICAL PERFORMANCE

The laboratory used standard analytical methods for all of the analyses throughout the project. No systematic variances in analytical performance were noted in the laboratory case narratives.

5.0 SUMMARY OF PARCC CRITERIA

The validation reports present the PARCC results for all SDGs. Each PARCC criterion is discussed in detail in the following sections.

5.1 Precision and Accuracy

Precision and accuracy were evaluated using data quality indicators such as calibration, surrogates, MS/MSD, DUP, LCS/LCSD, and field duplicates. The precision and accuracy of the data set were considered acceptable after integration of result qualification.

All calibrations were performed as required and met the acceptance criteria. All surrogate, MS/MSD, DUP, LCS/LCSD, and field duplicate percent recoveries, RPDs, and difference met acceptance criteria. All ICP interference check sample %Rs met acceptance criteria.

5.2 Representativeness

All samples for each method and matrix were evaluated for holding time compliance. All samples were associated with a method blank in each individual SDG. The representativeness of the project data is considered acceptable after integration of result qualification.

5.3 Comparability

Sampling frequency requirements were met in obtaining necessary equipment blanks, field blanks and field duplicates. The laboratory used standard analytical methods for the analyses. The analytical results were reported in correct standard units. Sample preservation, and sample integrity criteria were met. Holding times were within QC criteria with the exceptions noted in Section 3.2.1. The overall comparability is considered acceptable.

5.4 Completeness

Of the 1,531 total analytes reported, three of the sample results were rejected. The completeness for the SDGs is as follows:

Parameter	Total Analytes	No. of Rejects	% Completeness
Metals	362	0	100
Wet Chemistry	1,169	3	99.7
Total	1,531	3	99.8

The completeness percentage based on rejected data met the 90 percent DQO goal.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data quality assessment for the water sample laboratory analytical results generated during the Annual Remedial Performance Sampling at the Nevada Environmental Response Trust (NERT) site in Henderson, Nevada established that the overall project requirements and completeness levels were met. The sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the Stage 2A and Stage 4 data validation all other results are considered valid and usable for all purposes.

7.0 REFERENCES

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TABLE I

SDG#: 420318

VALIDATION SAMPLE TABLE

LDC#: 30023A

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)									
ART-1	201301050068	water		01/03/13	X	X	X									
ART-2	201301050069	water		01/03/13	X	X	X									
ART-3	201301050070	water		01/03/13	X	X	X									
ART-4	201301050071	water		01/03/13	X	X	X									
ART-6	201301050072	water		01/03/13	X	X	X									
ART-7	201301050073	water		01/03/13	X	X	X									
ART-8	201301050074	water		01/03/13	X	X	X									
PC-99R2/R3	201301050075	water		01/03/13	X	X	X									
PC-115R	201301050076	water		01/03/13	X	X	X									
PC-116R	201301050077	water		01/03/13	X	X	X									
PC-117	201301050079	water		01/03/13	X	X	X									
PC-118	201301050080	water		01/03/13	X	X	X									
PC-119	201301050081	water		01/03/13	X	X	X									
PC-120	201301050082	water		01/03/13	X	X	X									
PC-121	201301050083	water		01/03/13	X	X	X									
PC-133	201301050084	water		01/03/13	X	X	X									
ART-9	201301050085	water		01/03/13	X	X	X									
ART-1MS	201301050068MS	water	MS	01/03/13	X											
ART-1MSD	201301050068MSD	water	MSD	01/03/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 420318

VALIDATION SAMPLE TABLE

LDC#: 30023A

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)									
PC-121MS	201301050083MS	water	MS	01/03/13	X											
PC-121MSD	201301050083MSD	water	MSD	01/03/13	X											
PC-118DUP	201301050080DUP	water	DUP	01/03/13			X									
PC-119DUP	201301050081DUP	water	DUP	01/03/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 422515

VALIDATION SAMPLE TABLE

LDC#: 30023B

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/160.1)											
MW-K4	201301190069	water		01/17/13	X	X											
ARP-1	201301190070	water		01/16/13	X	X											
ARP-2A	201301190071	water		01/17/13	X	X											
ARP-3A	201301190072	water		01/17/13	X	X											
ARP-4A	201301190073	water		01/17/13	X	X											
ARP-5A	201301190074	water		01/17/13	X	X											
ARP-6B	201301190075	water		01/17/13	X	X											
ARP-7	201301190076	water		01/17/13	X	X											
PC-53	201301190077	water		01/16/13	X	X											
PC-103	201301190078	water		01/17/13	X	X											
MW-K5	201301190079	water		01/16/13	X	X											
M-83	201301190080	water		01/17/13	X	X											
PC-98R	201301190081	water		01/17/13	X	X											
PC-86	201301190082	water		01/16/13	X	X											
PC-90	201301190083	water		01/16/13	X	X											
PC-68	201301190084	water		01/16/13	X	X											
PC-122	201301190085	water		01/16/13	X	X											
PC-91	201301190086	water		01/16/13	X	X											
PC-97	201301190087	water		01/16/13	X	X											
PC-18	201301190088	water		01/16/13	X	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 422515

VALIDATION SAMPLE TABLE

LDC#: 30023B

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)										
PC-55	201301190089	water		01/16/13	X	X										
PC-101R	201301190090	water		01/16/13	X	X										
PC-86DUP	201301190082DUP	water	DUP	01/16/13		X										
PC-90MS	201301190083MS	water	MS	01/16/13	X											
PC-90MSD	201301190083MSD	water	MSD	01/16/13	X											
PC-68DUP	201301190084DUP	water	DUP	01/16/13		X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 423999

VALIDATION SAMPLE TABLE

LDC#: 30023C

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
PC-123	201302050291	water		02/04/13	X	X	X									
PC-128	201302050292	water		02/04/13	X	X	X									
PC-129	201302050293	water		02/04/13	X	X	X									
PC-130	201302050294	water		02/04/13	X	X	X									
PC-131	201302050295	water		02/04/13	X	X	X									
PC-132	201302050296	water		02/04/13	X	X	X									
PC-124	201302050297	water		02/04/13	X	X	X									
PC-125	201302050298	water		02/04/13	X	X	X									
PC-126	201302050299	water		02/04/13	X	X	X									
PC-127	201302050300	water		02/04/13	X	X	X									
M-95	201302050302	water	FD1	02/04/13	X	X	X	X								
PC-54	201302050303	water		02/04/13	X	X	X									
M-48A	201302050306	water		02/04/13	X	X	X									
M-44	201302050307	water		02/04/13	X	X	X	X								
PC-71	201302050308	water		02/04/13	X	X	X									
PC-72	201302050309	water		02/04/13	X	X	X									
PC-73	201302050310	water		02/04/13	X	X	X									
PC-37	201302050311	water		02/04/13	X	X	X									
M-23	201302050312	water		02/04/13	X	X	X									
FB-1	201302050313	water	FB	02/04/13	X	X	X	X								

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 423999

VALIDATION SAMPLE TABLE

LDC#: 30023C

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
VD-3	201302050314	water	FD1	02/04/13	X	X	X	X								
PC-54DUP	201302050303DUP	water	DUP	02/04/13			X									
M-23MS	201302050312MS	water	MS	02/04/13	X											
M-23MSD	201302050312MSD	water	MSD	02/04/13	X											
M-23DUP	201302050312DUP	water	DUP	02/04/13			X									
VD-3MS	201302050314MS	water	MS	02/04/13				X								
VD-3MSD	201302050314MSD	water	MSD	02/04/13				X								
FB-1MS	201302050313MS	water	MS	02/04/13	X											
FB-1MSD	201302050313MSD	water	MSD	02/04/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424008

VALIDATION SAMPLE TABLE

LDC#: 30023D

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)										
ART-1	20130205325	water		02/04/13	X	X	X										
ART-2	20130205326	water		02/04/13	X	X	X										
ART-3	20130205327	water		02/04/13	X	X	X										
ART-4	20130205328	water		02/04/13	X	X	X										
ART-6	20130205329	water		02/04/13	X	X	X										
ART-7	20130205330	water		02/04/13	X	X	X										
ART-8	20130205331	water		02/04/13	X	X	X										
PC-99R2/R3	20130205332	water		02/04/13	X	X	X										
PC-115R	20130205333	water		02/04/13	X	X	X										
PC-116R	20130205334	water		02/04/13	X	X	X										
PC-117	20130205336	water		02/04/13	X	X	X										
PC-118	20130205337	water		02/04/13	X	X	X										
PC-119	20130205338	water		02/04/13	X	X	X										
PC-120	20130205339	water		02/04/13	X	X	X										
PC-121	20130205340	water		02/04/13	X	X	X										
PC-133	20130205341	water		02/04/13	X	X	X										
ART-9	20130205342	water		02/04/13	X	X	X										
PC-117MS	20130205336MS	water	MS	02/04/13	X												
PC-117MSD	20130205336MSD	water	MSD	02/04/13	X												
PC-118MS	20130205337MS	water	MS	02/04/13		X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424008

VALIDATION SAMPLE TABLE

LDC#: 30023D

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)									
PC-118MSD	20130205337MSD	water	MSD	02/04/13		X										
PC-118DUP	20130205337DUP	water	DUP	02/04/13			X									
PC-119DUP	20130205338DUP	water	DUP	02/04/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424010

VALIDATION SAMPLE TABLE

LDC#: 30023E

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)										
I-O	201302050345	water		02/04/13	X	X	X										
I-P	201302050346	water		02/04/13	X	X	X										
I-H	201302050347	water		02/04/13	X	X	X										
I-U	201302050348	water		02/04/13	X	X	X										
I-T	201302050349	water		02/04/13	X	X	X										
I-G	201302050350	water		02/04/13	X	X	X										
I-Q	201302050351	water		02/04/13	X	X	X										
I-F	201302050352	water		02/04/13	X	X	X										
I-N	201302050353	water		02/04/13	X	X	X										
I-E	201302050354	water		02/04/13	X	X	X										
I-M	201302050355	water		02/04/13	X	X	X										
I-D	201302050356	water		02/04/13	X	X	X										
I-C	201302050357	water		02/04/13	X	X	X										
I-S	201302050358	water		02/04/13	X	X	X										
I-L	201302050359	water		02/04/13	X	X	X										
I-R	201302050360	water		02/04/13	X	X	X										
I-B	201302050361	water		02/04/13	X	X	X										
I-AR	201302050362	water		02/04/13	X	X	X										
I-BMS	201302050361MS	water	MS	02/04/13	X												
I-BMSD	201302050361MSD	water	MSD	02/04/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424010

VALIDATION SAMPLE TABLE

LDC#: 30023E

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)									
I-BDUP	201302050361DUP	water	DUP	02/04/13			X									
I-ARMS	201302050362MS	water	MS	02/04/13	X											
I-ARMSD	201302050362MSD	water	MSD	02/04/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424394

VALIDATION SAMPLE TABLE

LDC#: 30023F

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
M-97	201302070215	water		02/06/13	X	X	X									
I-V	201302070216	water		02/06/13	X	X	X									
I-K	201302070217	water		02/06/13	X	X	X									
I-J	201302070218	water		02/06/13	X	X	X									
I-Z	201302070219	water		02/06/13	X	X	X									
I-I	201302070220	water		02/06/13	X	X	X									
M-31A	201302070221	water		02/06/13	X	X	X									
M-52	201302070222	water		02/06/13	X	X	X									
M-35	201302070223	water		02/06/13	X	X	X									
M-19	201302070224	water		02/06/13	X	X	X									
M-68	201302070225	water		02/06/13	X	X	X									
M-67	201302070226	water		02/06/13	X	X	X									
M-74	201302070227	water		02/06/13	X	X	X									
M-73	201302070228	water		02/06/13	X	X	X									
M-12A	201302070229	water		02/06/13	X	X	X	X								
M-11	201302070230	water	FD2	02/06/13	X	X	X	X								
M-10	201302070231	water		02/06/13	X	X	X	X								
VD-4	201302070232	water	FD2	02/06/13	X	X	X	X								
EB-2	201302070233	water	EB	02/06/13	X	X	X	X								
M-37	201302070234	water		02/06/13				X								

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424394

VALIDATION SAMPLE TABLE

LDC#: 30023F

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)									
M-31ADUP	201302070221DUP	water	DUP	02/06/13			X										
M-19MS	201302070224MS	water	MS	02/06/13	X												
M-19MSD	201302070224MSD	water	MSD	02/06/13	X												
M-11MS	201302070230MS	water	MS	02/06/13				X									
M-11MSD	201302070230MSD	water	MSD	02/06/13				X									
M-11DUP	201302070230DUP	water	DUP	02/06/13			X										
M-10MS	201302070231MS	water	MS	02/06/13	X												
M-10MSD	201302070231MSD	water	MSD	02/06/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424392

VALIDATION SAMPLE TABLE

LDC#: 30051G

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
PC-135A	201302070196	water		02/05/13	X	X	X									
PC-136	201302070197	water		02/05/13	X	X	X									
PC-144	201302070198	water		02/05/13	X	X	X									
PC-148	201302070199	water		02/05/13	X	X	X									
PC-149	201302070200	water		02/05/13	X	X	X									
PC-150	201302070201	water	FD3	02/05/13	X	X	X									
M-64	201302070202	water		02/05/13	X	X	X									
M-65	201302070203	water		02/05/13	X	X	X									
M-66	201302070204	water	FD4	02/05/13	X	X	X									
M-79	201302070205	water		02/05/13	X	X	X									
M-69	201302070206	water		02/05/13	X	X	X									
M-135	201302070207	water		02/05/13	X	X	X									
M-131	201302070208	water		02/05/13	X	X	X									
M-57A	201302070209	water		02/05/13	X	X	X									
M-37	201302070210	water		02/05/13	X	X	X									
M-25	201302070211	water		02/05/13	X	X	X									
EB-1	201302070212	water	EB	02/05/13	X	X	X	X								
VD-1	201302070213	water	FD3	02/05/13	X	X	X									
VD-2	201302070214	water	FD4	02/05/13	X	X	X									
PC-136DUP	201302070197DUP	water	DUP	02/05/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424392

VALIDATION SAMPLE TABLE

LDC#: 30051G

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
PC-149MS	201302070200MS	water	MS	02/05/13	X											
PC-149MSD	201302070200MSD	water	MSD	02/05/13	X											
PC-149DUP	201302070200DUP	water	DUP	02/05/13			X									
PC-150MS	201302070201MS	water	MS	02/05/13	X											
PC-150MSD	201302070201MSD	water	MSD	02/05/13	X											
M-57ADUP	201302070209DUP	water	DUP	02/05/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424439

VALIDATION SAMPLE TABLE

LDC#: 30023G

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	TDS (2540C/160.1)										
M-10	201302080030	water		02/06/13	X	X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 424556

VALIDATION SAMPLE TABLE

LDC#: 30023H

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (6010)	CLO ₄ (314.0)	TDS (2540C/160.1)	CrVI (7196)								
M-83	201302090028	water		02/07/13	X	X	X									
M-80	201302090029	water		02/07/13	X	X	X									
M-81A	201302090030	water		02/07/13	X	X	X									
M-70	201302090031	water		02/07/13	X	X	X									
M-71	201302090032	water		02/07/13	X	X	X									
M-72	201302090033	water		02/07/13	X	X	X									
M-22A	201302090034	water		02/07/13	X	X	X									
M-14A	201302090035	water		02/07/13	X	X	X									
M-36	201302090036	water		02/07/13	X	X	X	X								
M-38	201302090037	water		02/07/13	X	X	X									
M-14AMS	201302090035MS	water	MS	02/07/13	X											
M-14MSD	201302090035MSD	water	MSD	02/07/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 425373

VALIDATION SAMPLE TABLE

LDC#: 30023I

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/160.1)											
PC-98R	201302140731	water		02/13/13	X	X											
PC-86	201302140732	water		02/12/13	X	X											
PC-90	201302140733	water		02/12/13	X	X											
PC-56	201302140734	water		02/12/13	X	X											
PC-58	201302140735	water		02/12/13	X	X											
PC-59	201302140736	water		02/12/13	X	X											
PC-60	201302140737	water		02/12/13	X	X											
PC-62	201302140738	water		02/12/13	X	X											
PC-68	201302140739	water		02/12/13	X	X											
PC-122	201302140740	water		02/13/13	X	X											
MW-K4	201302140741	water		02/13/13	X	X											
ARP-1	201302140742	water		02/13/13	X	X											
ARP-2A	201302140743	water		02/13/13	X	X											
ARP-3A	201302140744	water		02/13/13	X	X											
ARP-4A	201302140745	water		02/13/13	X	X											
ARP-5A	201302140746	water		02/13/13	X	X											
ARP-6B	201302140747	water		02/13/13	X	X											
ARP-7	201302140748	water		02/13/13	X	X											
PC-53	201302140749	water		02/13/13	X	X											
PC-103	201302140750	water		02/13/13	X	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 425373

VALIDATION SAMPLE TABLE

LDC#: 30023I

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)										
MW-K5	201302140751	water		02/13/13	X	X										
PC-91	201302140752	water		02/12/13	X	X										
PC-97	201302140753	water		02/12/13	X	X										
PC-18	201302140754	water		02/12/13	X	X										
PC-55	201302140755	water		02/12/13	X	X										
PC-101R	201302140756	water		02/13/13	X	X										
PC-94	201302140757	water		02/13/13	X	X										
ART-7B	201302140758	water		02/13/13	X	X										
PC-86DUP	201302140732DUP	water	DUP	02/12/13		X										
PC-90MS	201302140733MS	water	MS	02/12/13	X											
PC-90MSD	201302140733MSD	water	MSD	02/12/13	X											
PC-68DUP	201302140739DUP	water	DUP	02/12/13		X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 427572

VALIDATION SAMPLE TABLE

LDC#: 30023J

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)										
ART-1	201303080226	water		03/05/13	X	X										
ART-2	201303080227	water		03/05/13	X	X										
ART-3	201303080228	water		03/05/13	X	X										
ART-4	201303080229	water		03/05/13	X	X										
ART-6	201303080230	water		03/05/13	X	X										
ART-7	201303080231	water		03/05/13	X	X										
ART-8	201303080232	water		03/05/13	X	X										
PC-99R2/R3	201303080233	water		03/05/13	X	X										
PC-115R	201303080234	water		03/05/13	X	X										
PC-116R	201303080235	water		03/05/13	X	X										
PC-117	201303080237	water		03/05/13	X	X										
PC-118	201303080238	water		03/05/13	X	X										
PC-119	201303080239	water		03/05/13	X	X										
PC-120	201303080240	water		03/05/13	X	X										
PC-121	201303080241	water		03/05/13	X	X										
PC-133	201303080242	water		03/05/13	X	X										
ART-9	201303080243	water		03/05/13	X	X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 428373

VALIDATION SAMPLE TABLE

LDC#: 30023K

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)											
M-83	201303150323	water		03/13/13	X	X											
PC-98R	201303150324	water		03/13/13	X	X											
PC-86	201303150325	water		03/12/13	X	X											
PC-90	201303150326	water		03/12/13	X	X											
PC-56	201303150327	water		03/12/13	X	X											
PC-58	201303150328	water		03/12/13	X	X											
PC-59	201303150329	water		03/12/13	X	X											
PC-60	201303150330	water		03/12/13	X	X											
PC-62	201303150331	water		03/12/13	X	X											
PC-68	201303150332	water		03/12/13	X	X											
PC-122	201303150333	water		03/13/13	X	X											
MW-K4	201303150334	water		03/13/13	X	X											
ARP-1	201303150335	water		03/12/13	X	X											
ARP-2A	201303150336	water		03/13/13	X	X											
ARP-3A	201303150337	water		03/13/13	X	X											
ARP-4A	201303150338	water		03/13/13	X	X											
ARP-5A	201303150339	water		03/13/13	X	X											
ARP-6B	201303150340	water		03/13/13	X	X											
ARP-7	201303150341	water		03/13/13	X	X											
PC-53	201303150342	water		03/13/13	X	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 428373

VALIDATION SAMPLE TABLE

LDC#: 30023K

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)											
PC-103	201303150343	water		03/13/13	X	X											
MW-K5	201303150344	water		03/13/13	X	X											
ART-7B	201303150345	water		03/13/13	X	X											
PC-91	201303150346	water		03/12/13	X	X											
PC-97	201303150347	water		03/12/13	X	X											
PC-18	201303150348	water		03/12/13	X	X											
PC-55	201303150349	water		03/12/13	X	X											
PC-101R	201303150350	water		03/12/13	X	X											
M-83MS	201303150323MS	water	MS	03/13/13	X												
M-83MSD	201303150323MSD	water	MSD	03/13/13	X												
M-83DUP	201303150323DUP	water	DUP	03/13/13		X											
PC-68DUP	201303150332DUP	water	DUP	03/12/13		X											
PC-55MS	201303150349MS	water	MS	03/12/13	X												
PC-55MSD	201303150349MSD	water	MSD	03/12/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-42678-1

VALIDATION SAMPLE TABLE

LDC#: 30023L

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/160.1)										
ART-1	440-42678-1	water		04/02/13	X	X										
ART-2	440-42678-2	water		04/02/13	X	X										
ART-3	440-42678-3	water		04/02/13	X	X										
ART-4	440-42678-4	water		04/02/13	X	X										
ART-6	440-42678-5	water		04/02/13	X	X										
ART-7	440-42678-6	water		04/02/13	X	X										
ART-8	440-42678-7	water		04/02/13	X	X										
ART-9	440-42678-8	water		04/02/13	X	X										
PC-99R2/R3	440-42678-9	water		04/02/13	X	X										
PC-115R	440-42678-10	water		04/02/13	X	X										
PC-116R	440-42678-11	water		04/02/13	X	X										
PC-117	440-42678-12	water		04/02/13	X	X										
PC-118	440-42678-13	water		04/02/13	X	X										
PC-119	440-42678-14	water		04/02/13	X	X										
PC-120	440-42678-15	water		04/02/13	X	X										
PC-121	440-42678-16	water		04/02/13	X	X										
PC-133	440-42678-17	water		04/02/13	X	X										
ART-1DUP	440-42678-1DUP	water	DUP	04/02/13		X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/160.1)										
PC-86	440-43599-1	water		04/09/13	X	X										
PC-90	440-43599-2	water		04/09/13	X	X										
PC-91	440-43599-3	water		04/09/13	X	X										
PC-97	440-43599-4	water		04/09/13	X	X										
PC-18	440-43599-5	water		04/09/13	X	X										
PC-55	440-43599-6	water		04/09/13	X	X										
PC-101R	440-43599-7	water		04/10/13	X	X										
MW-K4	440-43599-8	water		04/10/13	X	X										
ARP-1	440-43599-9	water		04/09/13	X	X										
ARP-2A	440-43599-10	water		04/10/13	X	X										
ARP-3A	440-43599-11	water		04/10/13	X	X										
ARP-4A	440-43599-12	water		04/10/13	X	X										
ARP-5A	440-43599-13	water		04/10/13	X	X										
ARP-6B	440-43599-14	water		04/10/13	X	X										
ARP-7	440-43599-15	water		04/10/13	X	X										
PC-53	440-43599-16	water		04/11/13	X	X										
PC-103	440-43599-17	water		04/10/13	X	X										
MW-K5	440-43599-18	water		04/11/13	X	X										
M-83	440-43599-19	water		04/09/13	X	X										
PC-98R	440-43599-20	water		04/11/13	X	X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-43599-1

VALIDATION SAMPLE TABLE

LDC#: 30023M

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C/ 160.1)										
PC-58	440-43599-21	water		04/10/13	X	X										
PC-56	440-43599-22	water		04/10/13	X	X										
PC-60	440-43599-23	water		04/10/13	X	X										
PC-59	440-43599-24	water		04/10/13	X	X										
PC-62	440-43599-25	water		04/10/13	X	X										
PC-68	440-43599-26	water		04/10/13	X	X										
PC-122	440-43599-27	water		04/11/13	X	X										
PC-86DUP	440-43599-1DUP	water	DUP	04/09/13		X										
PC-58DUP	440-43599-21DUP	water	DUP	04/10/13		X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45612-1

VALIDATION SAMPLE TABLE

LDC#: 30023N

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-123	440-45612-1	water		05/06/13	X	X	X									
PC-128	440-45612-2	water		05/06/13	X	X	X									
PC-129	440-45612-3	water		05/06/13	X	X	X									
PC-130	440-45612-4	water		05/06/13	X	X	X									
PC-50	440-45612-5	water		05/06/13	X	X	X									
PC-131	440-45612-6	water		05/06/13	X	X	X									
PC-132	440-45612-7	water		05/06/13	X	X	X									
PC-124	440-45612-8	water		05/06/13	X	X	X									
PC-125	440-45612-9	water		05/06/13	X	X	X									
PC-126	440-45612-10	water		05/06/13	X	X	X									
PC-24	440-45612-11	water		05/06/13	X	X	X									
PC-127	440-45612-12	water		05/06/13	X	X	X									
PC-123MS	440-45612-1MS	water	MS	05/06/13	X											
PC-123MSD	440-45612-1MSD	water	MSD	05/06/13	X											
PC-123DUP	440-45612-1DUP	water	DUP	05/06/13			X									
PC-125MS	440-45612-9MS	water	MS	05/06/13	X											
PC-125MSD	440-45612-9MSD	water	MSD	05/06/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45619-1

VALIDATION SAMPLE TABLE

LDC#: 300230

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
I-AR	440-45619-1	water		05/06/13	X	X	X										
I-B	440-45619-2	water		05/06/13	X	X	X										
I-R	440-45619-3	water		05/06/13	X	X	X										
I-L	440-45619-4	water		05/06/13	X	X	X										
I-S	440-45619-5	water		05/06/13	X	X	X										
I-C	440-45619-6	water		05/06/13	X	X	X										
I-D	440-45619-7	water		05/06/13	X	X	X										
I-M	440-45619-8	water		05/06/13	X	X	X										
I-E	440-45619-9	water		05/06/13	X	X	X										
I-N	440-45619-10	water		05/06/13	X	X	X										
I-F	440-45619-11	water		05/06/13	X	X	X										
I-Q	440-45619-12	water		05/06/13	X	X	X										
I-ARDUP	440-45619-1DUP	water	DUP	05/06/13			X										
I-DMS	440-45619-7MS	water	MS	05/06/13	X												
I-DMSD	440-45619-7MSD	water	MSD	05/06/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45623-1

VALIDATION SAMPLE TABLE

LDC#: 30023P

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
I-G	440-45623-1	water		05/06/13	X	X	X									
I-T	440-45623-2	water		05/06/13	X	X	X									
I-U	440-45623-3	water		05/06/13	X	X	X									
I-H	440-45623-4	water		05/06/13	X	X	X									
I-P	440-45623-5	water		05/06/13	X	X	X									
I-O	440-45623-6	water		05/06/13	X	X	X									
I-PMS	440-45623-5MS	water	MS	05/06/13	X											
I-PMSD	440-45623-5MSD	water	MSD	05/06/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45624-1

VALIDATION SAMPLE TABLE

LDC#: 30051A

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-28	440-45624-1	water		05/06/13	X	X	X									
PC-31	440-45624-2	water		05/06/13	X	X	X									
PC-64	440-45624-3	water		05/06/13	X	X	X									
PC-65	440-45624-4	water		05/06/13	X	X	X									
PC-66	440-45624-5	water		05/06/13	X	X	X									
PC-67	440-45624-6	water		05/06/13	X	X	X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45716-1

VALIDATION SAMPLE TABLE

LDC#: 30023Q

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
PC-144	440-45716-1	water		05/07/13	X	X	X									
PC-134A	440-45716-2	water		05/07/13	X	X	X									
PC-135A	440-45716-3	water		05/07/13	X	X	X									
HMW-16	440-45716-4	water		05/07/13		X	X									
HMW-13	440-45716-5	water		05/07/13		X	X									
FB-1	440-45716-6	water	FB	05/07/13	X	X	X	X								

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45723-1

VALIDATION SAMPLE TABLE

LDC#: 30023R

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
AA-01	440-45723-1	water		05/07/13		X	X									
PC-148	440-45723-2	water		05/07/13	X	X	X									
PC-149	440-45723-3	water		05/07/13	X	X	X									
PC-150	440-45723-4	water		05/07/13	X	X	X									
PC-143	440-45723-5	water		05/07/13	X	X	X									
PC-142	440-45723-6	water		05/07/13	X	X	X									
PC-145	440-45723-7	water		05/07/13	X	X	X									
PC-137	440-45723-8	water		05/07/13	X	X	X									
PC-136	440-45723-9	water		05/07/13	X	X	X									
PC-2	440-45723-10	water		05/07/13	X	X	X									
PC-4	440-45723-11	water		05/07/13	X	X	X									
PC-148MS	440-45723-2MS	water	MS	05/07/13	X											
PC-148MSD	440-45723-2MSD	water	MSD	05/07/13	X											
PC-4DUP	440-45723-11DUP	water	DUP	05/07/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45890-1

VALIDATION SAMPLE TABLE

LDC#: 30023S

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
ART-1	440-45890-1	water		05/06/13	X	X	X										
ART-2	440-45890-2	water		05/06/13	X	X	X										
ART-3	440-45890-3	water		05/06/13	X	X	X										
ART-4	440-45890-4	water		05/06/13	X	X	X										
ART-6	440-45890-5	water		05/06/13	X	X	X										
ART-7	440-45890-6	water		05/06/13	X	X	X										
ART-8	440-45890-7	water		05/06/13	X	X	X										
ART-9	440-45890-8	water		05/06/13	X	X	X										
PC-99R2/R3	440-45890-9	water		05/06/13	X	X	X										
PC-115R	440-45890-10	water		05/06/13	X	X	X										
PC-116R	440-45890-11	water		05/06/13	X	X	X										
PC-117	440-45890-12	water		05/06/13	X	X	X										
PC-118	440-45890-13	water		05/06/13	X	X	X										
PC-119	440-45890-14	water		05/06/13	X	X	X										
PC-120	440-45890-15	water		05/06/13	X	X	X										
PC-121	440-45890-16	water		05/06/13	X	X	X										
PC-133	440-45890-17	water		05/06/13	X	X	X										
ART-1MS	440-45890-1MS	water	MS	05/06/13	X												
ART-1MSD	440-45890-1MSD	water	MSD	05/06/13	X												
ART-1DUP	440-45890-1DUP	water	DUP	05/06/13			X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45890-1

VALIDATION SAMPLE TABLE

LDC#: 30023S

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-116RMS	440-45890-11MS	water	MS	05/06/13	X											
PC-116RMSD	440-45890-11MSD	water	MSD	05/06/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-45976-1

VALIDATION SAMPLE TABLE

LDC#: 30023T

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
PC-71	440-45976-1	water		05/08/13	X	X	X										
PC-72	440-45976-2	water		05/08/13	X	X	X										
PC-73	440-45976-3	water		05/08/13	X	X	X										
PC-40	440-45976-4	water		05/08/13	X	X	X										
H-58A	440-45976-5	water		05/08/13	X	X	X										
H-48	440-45976-6	water		05/08/13	X	X	X										
MC-65	440-45976-7	water		05/08/13	X	X	X										
PC-37	440-45976-8	water	FD7*	05/08/13	X	X	X										
HM-2	440-45976-9	water		05/08/13		X	X										
PC-107	440-45976-10	water		05/08/13		X	X										
HMW-14	440-45976-11	water		05/08/13		X	X										
HMW-15	440-45976-12	water		05/08/13		X	X										
PC-71DUP	440-45976-1DUP	water	DUP	05/08/13			X										
PC-40MS	440-45976-4MS	water	MS	05/08/13	X												
PC-40MSD	440-45976-4MSD	water	MSD	05/08/13	X												

*FD7 = Sample PC-37 is the parent sample of field duplicate VD-5 (from SDG 440-46009-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46009-1

VALIDATION SAMPLE TABLE

LDC#: 30051B

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
PC-54	440-46009-1	water		05/08/13	X	X	X										
M-95	440-46009-2	water		05/08/13	X	X	X										
PC-21A	440-46009-3	water	FD6	05/08/13	X	X	X										
M-48A	440-46009-4	water	FD5	05/08/13	X	X	X										
VD-3	440-46009-5	water	FD5	05/08/13	X	X	X										
VD-4	440-46009-6	water	FD6	05/08/13	X	X	X										
VD-5	440-46009-7	water	FD7*	05/08/13	X	X	X										
M-44	440-46009-8	water		05/08/13	X	X	X										
EB-1	440-46009-9	water	EB	05/08/13	X	X	X										
EB-1MS	440-46009-9MS	water	MS	05/08/13		X											
EB-1MSD	440-46009-9MSD	water	MSD	05/08/13		X											
M-48AMS	440-46009-4MS	water	MS	05/08/13	X												
M-48AMSD	440-46009-4MSD	water	MSD	05/08/13	X												

*FD7 = Sample VD-5 is the field duplicate of parent sample PC-37 (from SDG 440-45976-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46072-1

VALIDATION SAMPLE TABLE

LDC#: 30051C

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
MC-53	440-46072-1	water		05/09/13	X	X	X										
MC-7	440-46072-2	water		05/09/13		X	X										
MC-6	440-46072-3	water		05/09/13		X	X										
MC-45	440-46072-4	water		05/09/13		X	X										
MC-50	440-46072-5	water		05/09/13		X	X										
MC-51	440-46072-6	water		05/09/13		X	X										
MC-93	440-46072-7	water		05/09/13		X	X										
MC-69	440-46072-8	water		05/09/13		X	X										
MC-3	440-46072-9	water		05/09/13		X	X										
MC-29	440-46072-10	water		05/09/13		X	X										
MC-97	440-46072-11	water		05/09/13		X	X										
M-23	440-46072-12	water	FD8*	05/09/13	X	X	X										
MC-53DUP	440-46072-1DUP	water	DUP	05/09/13			X										
M-23MS	440-46072-12MS	water	MS	05/09/13	X												
M-23MSD	440-46072-12MSD	water	MSD	05/09/13	X												

*FD8 = Sample M-23 is the parent sample of field duplicate VD-6 (from SDG 440-46077-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46077-1

VALIDATION SAMPLE TABLE

LDC#: 30023U

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
M-92	440-46077-1	water		05/09/13	X	X	X									
M-97	440-46077-2	water		05/09/13	X	X	X									
M-64	440-46077-3	water		05/09/13	X	X	X									
M-65	440-46077-4	water	FD9	05/09/13	X	X	X									
M-66	440-46077-5	water		05/09/13	X	X	X									
EB-2	440-46077-6	water	EB	05/09/13	X	X	X	X								
M-79	440-46077-7	water		05/09/13	X	X	X									
M-69	440-46077-8	water		05/09/13	X	X	X									
I-V	440-46077-9	water		05/09/13	X	X	X									
VD-6	440-46077-10	water	FD8*	05/09/13	X	X	X									
VD-7	440-46077-11	water	FD9	05/09/13	X	X	X									
EB-2MS	440-46077-6MS	water	MS	05/09/13	X	X		X								
EB-2MSD	440-46077-6MSD	water	MSD	05/09/13	X	X		X								

*FD8 = Sample VD-6 is the field duplicate of parent sample M-23(from SDG 440-46072-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46367-1

VALIDATION SAMPLE TABLE

LDC#: 30023V

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
M-76	440-46367-1	water		05/13/13	X	X	X									
M-25	440-46367-2	water		05/13/13	X	X	X									
M-37	440-46367-3	water		05/13/13	X	X	X	X								
M-14A	440-46367-4	water		05/13/13	X	X	X									
M-115	440-46367-5	water		05/13/13	X	X	X									
M-75	440-46367-6	water		05/13/13	X	X	X									
M-2A	440-46367-7	water		05/13/13	X	X	X									
M-35	440-46367-8	water	FD11*	05/13/13	X	X	X									
M-19	440-46367-9	water		05/13/13	X	X	X									
M-68	440-46367-10	water		05/13/13	X	X	X									
M-74	440-46367-11	water		05/13/13	X	X	X									
M-73	440-46367-12	water		05/13/13	X	X	X									
M-14AMS	440-46367-4MS	water	MS	05/13/13	X											
M-14MSD	440-46367-4MSD	water	MSD	05/13/13	X											

FD11* = Sample M-35 is the parent sample of field duplicate VD-8 (from SDG 440-46598-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46369-1

VALIDATION SAMPLE TABLE

LDC#: 30023W

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
I-K	440-46369-1	water		05/13/13	X	X	X										
I-J	440-46369-2	water		05/13/13	X	X	X										
I-Z	440-46369-3	water		05/13/13	X	X	X										
I-I	440-46369-4	water		05/13/13	X	X	X										
M-136	440-46369-5	water		05/13/13	X	X	X										
M-135	440-46369-6	water		05/13/13	X	X	X										
M-134	440-46369-7	water		05/13/13	X	X	X										
M-131	440-46369-8	water		05/13/13	X	X	X										
M-57A	440-46369-9	water		05/13/13	X	X	X										
M-126	440-46369-10	water		05/13/13	X	X	X										
MW-16	440-46369-11	water		05/13/13	X	X	X										
M-99	440-46369-12	water		05/13/13	X	X	X										
I-KDUP	440-46369-1DUP	water	DUP	05/13/13			X										
M-134MS	440-46369-7MS	water	MS	05/13/13	X												
M-134MSD	440-46369-7MSD	water	MSD	05/13/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46454-1

VALIDATION SAMPLE TABLE

LDC#: 30023X

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)									
M-38	440-46454-1	water		05/14/13	X	X	X										
H-11	440-46454-2	water		05/14/13		X	X										
M-125	440-46454-3	water		05/14/13		X	X										
M-142	440-46454-4	water		05/14/13	X	X	X										
M-36	440-46454-5	water		05/14/13	X	X	X	X									
EB-3	440-46454-6	water	EB	05/14/13	X	X	X	X									
FB-2	440-46454-7	water	FB	05/14/13	X	X	X	X									
VD-10	440-46454-8	water	FD10*	05/14/13	X	X	X	X									
M-38MS	440-46454-1MS	water	MS	05/14/13	X												
M-38MSD	440-46454-1MSD	water	MSD	05/14/13	X												
M-38DUP	440-46454-1DUP	water	DUP	05/14/13			X										
EB-3MS	440-46454-6MS	water	MS	05/14/13				X									
EB-3MSD	440-46454-6MSD	water	MSD	05/14/13				X									

*FD10 = Sample VD-10 is the field duplicate of parent sample M-10 (from SDG 440-46459-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46457-1

VALIDATION SAMPLE TABLE

LDC#: 30023Y

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
M-67	440-46457-1	water		05/14/13	X	X	X										
M-81A	440-46457-2	water		05/14/13	X	X	X										
M-80	440-46457-3	water		05/14/13	X	X	X										
M-83	440-46457-4	water		05/14/13	X	X	X										
M-70	440-46457-5	water		05/14/13	X	X	X										
M-71	440-46457-6	water		05/14/13	X	X	X										
M-72	440-46457-7	water		05/14/13	X	X	X										
M-22A	440-46457-8	water		05/14/13	X	X	X										
M-133	440-46457-9	water		05/14/13	X	X	X										
M-123	440-46457-10	water		05/14/13		X	X										
M-128	440-46457-11	water		05/14/13		X	X										
M-124	440-46457-12	water		05/14/13	X	X	X										
M-71MS	440-46457-6MS	water	MS	05/14/13	X												
M-71MSD	440-46457-6MSD	water	MSD	05/14/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46459-1

VALIDATION SAMPLE TABLE

LDC#: 30023Z

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
M-10	440-46459-1	water	FD10*	05/14/13	X	X	X	X								

FD10* = Sample M-10 is the parent sample of field duplicate VD-10 (from SDG 440-46454-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46598-1

VALIDATION SAMPLE TABLE

LDC#: 30041A

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
VD-8	440-46598-1	water	FD11*	05/13/13	X	X	X									

*FD11 = Sample VD-8 is the field duplicate of parent sample M-35 (from SDG 440-46367-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46736-1

VALIDATION SAMPLE TABLE

LDC#: 30041B

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-96	440-46736-1	water		05/15/13		X	X									
VD-9	440-46736-2	water	FD12*	05/15/13	X	X	X									
M-21	440-46736-3	water		05/15/13	X	X	X									

*FD12 = Sample VD-9 is the field duplicate of parent sample M-13 (from SDG 440-46744-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46744-1

VALIDATION SAMPLE TABLE

LDC#: 30094A

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
M-77	440-46744-1	water		05/15/13	X	X	X									
PC-77	440-46744-2	water		05/15/13		X	X									
PC-74	440-46744-3	water		05/15/13		X	X									
M-148A	440-46744-4	water		05/15/13	X	X	X									
M-31A	440-46744-5	water		05/15/13	X	X	X									
M-141	440-46744-6	water		05/15/13	X	X	X									
M-52	440-46744-7	water		05/15/13	X	X	X									
M-139	440-46744-8	water		05/15/13	X	X	X									
M-145	440-46744-9	water		05/15/13	X	X	X									
M-11	440-46744-10	water		05/15/13	X	X	X	X								
M-13	440-46744-11	water	FD12*	05/15/13	X	X	X									
EB-4	440-46744-12	water	EB	05/15/13	X	X	X	X								
M-77DUP	440-46744-1DUP	water	DUP	05/15/13			X									
M-52MS	440-46744-7MS	water	MS	05/15/13	X											
M-52MSD	440-46744-7MSD	water	MSD	05/15/13	X											
EB-4MS	440-46744-12MS	water	MS	05/15/13		X		X								
EB-4MSD	440-46744-12MSD	water	MSD	05/15/13		X		X								

FD12* = Sample M-13 is the parent sample of field duplicate VD-9 (from SDG 440-46736-1).

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46832-1

VALIDATION SAMPLE TABLE

LDC#: 30041C

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
H-28A	440-46832-1	water		05/16/13	X	X	X									
M-6A	440-46832-2	water		05/16/13	X	X	X									
M-5A	440-46832-3	water		05/16/13	X	X	X									
M-7B	440-46832-4	water		05/16/13	X	X	X									
H-28ADUP	440-46832-1DUP	water	DUP	05/16/13			X									
M-5AMS	440-46832-3MS	water	MS	05/16/13	X											
M-5AMSD	440-46832-3MSD	water	MSD	05/16/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-46840-1

VALIDATION SAMPLE TABLE

LDC#: 30041D

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)	CrVI (218.6)								
M-144	440-46840-1	water	FD14	05/16/13	X	X	X									
M-146	440-46840-2	water	FD13	05/16/13	X	X	X									
M-147	440-46840-3	water		05/16/13	X	X	X									
M-137	440-46840-4	water		05/16/13	X	X	X									
M-138	440-46840-5	water		05/16/13	X	X	X									
M-95	440-46840-6	water		05/16/13				X								
M-44	440-46840-7	water		05/16/13				X								
M-12A	440-46840-8	water		05/16/13	X	X	X	X								
VD-1	440-46840-9	water	FD13	05/16/13	X	X	X									
VD-2	440-46840-10	water	FD14	05/16/13	X	X	X									
M-38	440-46840-11	water		05/16/13				X								

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47272-1

VALIDATION SAMPLE TABLE

LDC#: 30041E

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-79	440-47272-1	water		05/21/13	X	X	X									
PC-86	440-47272-2	water		05/21/13	X	X	X									
PC-82	440-47272-3	water		05/21/13		X	X									
PC-58	440-47272-4	water		05/21/13	X	X	X									
PC-56	440-47272-5	water		05/21/13	X	X	X									
PC-60	440-47272-6	water		05/21/13	X	X	X									
PC-62	440-47272-7	water		05/21/13	X	X	X									
PC-59	440-47272-8	water		05/21/13	X	X	X									
PC-68	440-47272-9	water		05/21/13	X	X	X									
PC-79DUP	440-47272-1DUP	water	DUP	05/21/13			X									
PC-86MS	440-47272-2MS	water	MS	05/21/13	X											
PC-86MSD	440-47272-2MSD	water	MSD	05/21/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47313-1

VALIDATION SAMPLE TABLE

LDC#: 30041F

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-97	440-47313-1	water		05/22/13	X	X	X									
PC-90	440-47313-2	water		05/22/13	X	X	X									
PC-108	440-47313-3	water		05/22/13		X	X									
PC-110	440-47313-4	water		05/22/13		X	X									
PC-91	440-47313-5	water		05/22/13	X	X	X									
PC-92	440-47313-6	water		05/22/13	X	X	X									
PC-94	440-47313-7	water		05/22/13	X	X	X									
ART-7B	440-47313-8	water		05/22/13	X	X	X									
PC-97MS	440-47313-1MS	water	MS	05/22/13	X											
PC-97MSD	440-47313-1MSD	water	MSD	05/22/13	X											
PC-97DUP	440-47313-1DUP	water	DUP	05/22/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
TR-2	440-4710-01	water		05/20/13	X	X	X										
M-152	440-4710-02	water		05/20/13	X	X	X										
M-156	440-4710-03	water		05/20/13	X	X	X										
M-164	440-4710-04	water		05/20/13	X	X	X										
M-162	440-4710-05	water		05/20/13	X	X	X										
M-163	440-4710-06	water	FD15	05/20/13	X	X	X										
M-163-FD	440-4710-07	water	FD15	05/20/13	X	X	X										
E-EB-1	440-4710-08	water	EB	05/20/13	X	X	X										
M-161	440-4710-09	water		05/20/13	X	X	X										
M-150	440-4710-10	water		05/21/13	X	X	X										
M-154	440-4710-11	water		05/21/13	X	X	X										
TR-3	440-4710-12	water		05/21/13	X	X	X										
TR-1	440-4710-13	water		05/21/13	X	X	X										
TR-4	440-4710-14	water		05/21/13	X	X	X										
M-120	440-4710-15	water		05/21/13	X	X	X										
M-121	440-4710-16	water		05/21/13	X	X	X										
M-118	440-4710-17	water		05/21/13	X	X	X										
M-117	440-4710-18	water		05/21/13	X	X	X										
TR-12	440-4710-19	water		05/22/13	X	X	X										
TR-6	440-4710-20	water		05/22/13	X	X	X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47410-1

VALIDATION SAMPLE TABLE

LDC#: 30051D

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
TR-5	440-4710-21	water		05/22/13	X	X	X									
M-155	440-4710-22	water		05/22/13	X	X	X									
M-151	440-4710-23	water		05/22/13	X	X	X									
M-165	440-4710-24	water		05/22/13	X	X	X									
M-182	440-4710-25	water		05/22/13	X	X	X									
M-181	440-4710-26	water		05/22/13	X	X	X									
E-EB-2	440-4710-27	water	EB	05/22/13	X	X	X									
TR-11	440-4710-28	water	FD16	05/22/13	X	X	X									
TR-11-FD	440-4710-29	water	FD16	05/22/13	X	X	X									
E-EB-1MS	440-4710-08MS	water	MS	05/20/13	X											
E-EB-1MSD	440-4710-08MSD	water	MSD	05/20/13	X											
M-117MS	440-4710-18MS	water	MS	05/21/13	X											
M-117MSD	440-4710-18MSD	water	MSD	05/21/13	X											
TR-11MS	440-4710-28MS	water	MS	05/22/13	X											
TR-11MSD	440-4710-28MSD	water	MSD	05/22/13	X											
M-164DUP	440-4710-04DUP	water	DUP	05/20/13			X									
TR-6DUP	440-4710-20DUP	water	DUP	05/22/13			X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47414-1

VALIDATION SAMPLE TABLE

LDC#: 30094B

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-122	440-47414-1	water		05/23/13	X	X	X									
PC-53	440-47414-2	water		05/23/13	X	X	X									
MW-K5	440-47414-3	water		05/23/13	X	X	X									
ARP-7	440-47414-4	water		05/23/13	X	X	X									
ARP-6B	440-47414-5	water		05/23/13	X	X	X									
ARP-5A	440-47414-6	water		05/23/13	X	X	X									
ARP-4A	440-47414-7	water		05/23/13	X	X	X									
ARP-3A	440-47414-8	water		05/23/13	X	X	X									
ARP-2A	440-47414-9	water		05/23/13	X	X	X									
PC-101R	440-47414-10	water		05/23/13	X	X	X									
PC-18	440-47414-11	water		05/23/13	X	X	X									
PC-122DUP	440-47414-1DUP	water	DUP	05/23/13			X									
ARP-5AMS	440-47414-6MS	water	MS	05/23/13	X											
ARP-5AMSD	440-47414-6MSD	water	MSD	05/23/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47431-1

VALIDATION SAMPLE TABLE

LDC#: 30051E

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
PC-55	440-47431-1	water		05/23/13	X	X	X									
ARP-1	440-47431-2	water		05/23/13	X	X	X									
PC-103	440-47431-3	water		05/23/13	X	X	X									
PC-98R	440-47431-4	water		05/23/13	X	X	X									

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-47528-1

VALIDATION SAMPLE TABLE

LDC#: 30041G

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)										
M-130	440-47528-1	water		05/23/13	X	X	X										
CLD1-R	440-47528-2	water		05/23/13	X	X	X										
M-129	440-47528-3	water		05/23/13	X	X	X										
TR-10	440-47528-4	water		05/23/13	X	X	X										
TR-9	440-47528-5	water		05/23/13	X	X	X										
M-103	440-47528-6	water		05/23/13	X	X	X										
TR-8	440-47528-7	water		05/23/13	X	X	X										
TR-7	440-47528-8	water		05/23/13	X	X	X										
M-153	440-47528-9	water		05/23/13	X	X	X										
E-EB-4	440-47528-10	water	EB	05/23/13	X	X	X										
M-149	440-47528-11	water		05/23/13	X	X	X										
M-186	440-47528-12	water	FD17	05/23/13	X	X	X										
M-186-FD	440-47528-13	water	FD17	05/23/13	X	X	X										
M-130MS	440-47528-1MS	water	MS	05/23/13	X												
M-130MSD	440-47528-1MSD	water	MSD	05/23/13	X												

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-48113-1

VALIDATION SAMPLE TABLE

LDC#: 30094C

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C)											
ART-1	440-48113-1	water		06/03/13	X	X											
ART-2	440-48113-2	water		06/03/13	X	X											
ART-3	440-48113-3	water		06/03/13	X	X											
ART-4	440-48113-4	water		06/03/13	X	X											
ART-6	440-48113-5	water		06/03/13	X	X											
ART-7	440-48113-6	water		06/03/13	X	X											
ART-8	440-48113-7	water		06/03/13	X	X											
ART-9	440-48113-8	water		06/03/13	X	X											
PC-99R2/R3	440-48113-9	water		06/03/13	X	X											
PC-115R	440-48113-10	water		06/03/13	X	X											
PC-116R	440-48113-11	water		06/03/13	X	X											
PC-117	440-48113-12	water		06/03/13	X	X											
PC-118	440-48113-13	water		06/03/13	X	X											
PC-119	440-48113-14	water		06/03/13	X	X											
PC-120	440-48113-15	water		06/03/13	X	X											
PC-121	440-48113-16	water		06/03/13	X	X											
PC-133	440-48113-17	water		06/03/13	X	X											
ART-1DUP	440-48113-1DUP	water	DUP	06/03/13		X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-49007-1

VALIDATION SAMPLE TABLE

LDC#: 30041H

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C)											
PC-86	440-49007-1	water		06/10/13	X	X											
PC-90	440-49007-2	water		06/10/13	X	X											
PC-91	440-49007-3	water		06/10/13	X	X											
PC-97	440-49007-4	water		06/10/13	X	X											
PC-18	440-49007-5	water		06/10/13	X	X											
PC-55	440-49007-6	water		06/10/13	X	X											
PC-101R	440-49007-7	water		06/11/13	X	X											
ARP-1	440-49007-8	water		06/11/13	X	X											
ARP-2A	440-49007-9	water		06/11/13	X	X											
ARP-3A	440-49007-10	water		06/11/13	X	X											
ARP-4A	440-49007-11	water		06/11/13	X	X											
ARP-5A	440-49007-12	water		06/11/13	X	X											
ARP-6B	440-49007-13	water		06/11/13	X	X											
ARP-7	440-49007-14	water		06/11/13	X	X											
PC-53	440-49007-15	water		06/11/13	X	X											
PC-103	440-49007-16	water		06/11/13	X	X											
MW-K5	440-49007-17	water		06/11/13	X	X											
M-83	440-49007-18	water		06/11/13	X	X											
PC-98R	440-49007-19	water		06/11/13	X	X											
PC-58	440-49007-20	water		06/10/13	X	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-49007-1

VALIDATION SAMPLE TABLE

LDC#: 30041H

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	CLO ₄ (314.0)	TDS (2540C)										
PC-56	440-49007-21	water		06/10/13	X	X										
PC-60	440-49007-22	water		06/10/13	X	X										
PC-59	440-49007-23	water		06/10/13	X	X										
PC-62	440-49007-24	water		06/10/13	X	X										
PC-68	440-49007-25	water		06/10/13	X	X										
PC-122	440-49007-26	water		06/11/13	X	X										
EB-M1	440-49007-27	water	EB	06/11/13	X	X										
PC-86DUP	440-49007-1DUP	water	DUP	06/10/13		X										

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

SDG#: 440-50221-1

VALIDATION SAMPLE TABLE

LDC#: 30051F

Project Name: 2013 Annual Remedial Performance Sampling

Parameters/Analytical Method

Client ID #	Lab ID #	Matrix	QC Type	Date Collected	Cr (200.7)	CLO ₄ (314.0)	TDS (2540C)									
I-AA	440-50221-1	water		06/25/13	X	X	X									
I-AB	440-50221-2	water		06/25/13	X	X	X									
I-Y	440-50221-3	water		06/25/13	X	X	X									
M-140	440-50221-4	water		06/25/13	X	X	X									
I-X	440-50221-5	water		06/25/13	X	X	X									
I-W	440-50221-6	water		06/25/13	X	X	X									
I-AADUP	440-50221-1DUP	water	DUP	06/25/13			X									
I-AAMS	440-50221-1MS	water	MS	06/25/13	X											
I-AAMSD	440-50221-1MSD	water	MSD	06/25/13	X											

Shaded cells indicate sample underwent Stage 4

EB = Equipment Blank, FB = Field Blank, FD = Field Duplicate

DUP = Laboratory Duplicate, MS = Matrix Spike, MSD = Matrix Spike Duplicate

TABLE II

Table II. Qualification Codes and Definitions

Reason Code	Explanation
a	qualified due to low abundance (radiochemical activity)
be	qualified due to equipment blank contamination
bf	qualified due to field blank contamination
bl	qualified due to lab blank contamination
bt	qualified due to trip blank contamination
bp	qualified due to pump blank contamination (wells w/o dedicated pumps, when contamination is detected in the Pump Blk)
br	qualified due to filter blank contamination (aqueous Hexavalent Chromium and Dissolved sample fractions)
c	qualified due to calibration problems
cp	qualified due to insufficient ingrowth (radiochemical only)
dc	duel column confirmation %D exceeded
e	concentration exceeded the calibration range
fd	qualified due to field duplicate imprecision
h	qualified due to holding time exceedance
i	qualified due to internal standard areas
k	qualified as Estimated Maximum Possible Concentrations (dioxins and PCB congeners)
l	qualified due to LCS recoveries
ld	qualified due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
m	qualified due to matrix spike recoveries
nb	qualified due to negative lab blank contamination (nondetect results only)
nd	qualified due to non-detected target analyte
o	other
p	qualified as a false positive due to contamination during shipping
pH	sample preservation not within acceptance range
q	qualified due to quantitation problem
s	qualified due to surrogate recoveries
sd	serial dilution did not meet control criteria
sp	detected value reported >SQL <PQL
st	sample receipt temperature exceeded
t	qualified due to elevated helium tracer concentrations
vh	volatile headspace detected in aqueous sample containers submitted for VOC analysis
x	qualified due to low % solids
z	qualified due to ICS results

TABLE III

Table III. Overall Qualified Results

SDG	Client Sample ID	Sample Date	Method	Client Analyte ID	Analyte	Lab Result	Lab Qualifier	Units	Validator Qualifier	Reason Code	Reason Code Definition	Qualification Finding
440-46072-1	M-23	05/09/13	EPA 314.0	14797-73-0	Perchlorate	210,000		ug/l	J	fd	Field Duplicate	32 %
440-46077-1	VD-6	05/09/13	EPA 314.0	14797-73-0	Perchlorate	290,000		ug/l	J	fd	Field Duplicate	32 %
440-47528-1	M-153	05/23/13	EPA 314.0	14797-73-0	Perchlorate	27		ug/l	J+	be	Equipment Blank	18 ug/L
440-47528-1	TR-8	05/23/13	EPA 314.0	14797-73-0	Perchlorate	95		ug/l	J+	be	Equipment Blank	18 ug/L
440-47528-1	TR-9	05/23/13	EPA 314.0	14797-73-0	Perchlorate	2.4		ug/l	J+	be	Equipment Blank	18 ug/L
440-46840-1	M-95	05/16/13	EPA 218.6	18540-29-9	Hexavalent chromium (Cr VI)	630	H	ug/l	J-	h	Holding Time	24.25 Hours
423999	FB-1	02/04/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)		u	mg/l	UJ	h	Holding Time	28.75 Hours
423999	M-44	02/04/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	1.0		mg/l	J-	h	Holding Time	29.25 Hours
423999	M-95	02/04/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	0.68		mg/l	J-	h	Holding Time	30.25 Hours
423999	VD-3	02/04/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	0.69		mg/l	J-	h	Holding Time	30.25 Hours
424392	EB-1	02/05/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)		u	mg/l	R	h	Holding Time	3 Days
424394	EB-2	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)		u	mg/l	R	h	Holding Time	51.75 Hours
424394	M-10	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	0.042		mg/l	J-	h	Holding Time	49.75 Hours
424394	M-11	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	1.7		mg/l	J-	h	Holding Time	51 Hours
424394	M-12A	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	8.4		mg/l	J-	h	Holding Time	51.75 Hours
424394	M-37	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)		u	mg/l	R	h	Holding Time	49.5 Hours
424394	VD-4	02/06/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	1.4		mg/l	J-	h	Holding Time	51.25 Hours
424556	M-36	02/07/13	SW-7196A	18540-29-9	Hexavalent chromium (Cr VI)	25		mg/l	J-	h	Holding Time	4 Days
424010	I-AR	02/04/13	SM2540C/160.1	10-33-3	Total Dissolved Solid (TDS)	5,900		mg/l	J-	h	Holding Time	29 Days
424392	M-25	02/05/13	SM2540C/160.1	10-33-3	Total Dissolved Solid (TDS)	8,100		mg/l	J-	h	Holding Time	14 Days
424392	VD-2	02/05/13	SM2540C/160.1	10-33-3	Total Dissolved Solid (TDS)	14,000		mg/l	J-	h	Holding Time	14 Days

ATTACHMENT A

Metals Data Validation Report

Chromium by EPA SW 846 Method 6010 and EPA Method 200.7

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

ICP-MS was not utilized in these SDGs.

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met for samples on which a Stage 4 review was performed.

Calibration data were not evaluated for the samples reviewed by Stage 2A criteria.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No chromium was found in the initial, continuing and preparation blanks.

Samples EB-1 (from SDGs 424392 and 440-46009-1), EB-2 (from SDGs 424394 and 440-46077-1), EB-3 (from SDG 440-46454-1), EB-4 (from SDG 440-46744-1), E-EB-1 (from SDG 440-47410-1), E-EB-2 (from SDG 440-47410-1), and E-EB-4 (from SDG 440-47528-1) were identified as equipment blanks. No chromium was found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-46009-1	EB-1	5/8/13	Chromium	0.0029 mg/L	PC-54 M-95 PC-21A M-48A VD-3 VD-4 VD-5 M-44

Samples FB-1 (from SDGs 423999 and 440-45716-1) and FB-2 (from SDG 440-46454-1) were identified as field blanks. No chromium was found.

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis and criteria were met for samples on which a Stage 4 review was performed.

ICP Interference check sample analysis data were not evaluated for the samples reviewed by Stage 2A criteria.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Duplicate Sample Analysis

The laboratory has indicated that there were no duplicate (DUP) analyses specified for the samples in all SDGs, and therefore duplicate analyses were not performed.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards (ICP-MS)

ICP-MS was not utilized in these SDGs.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in these SDGs.

XI. ICP Serial Dilution

ICP serial dilution was not performed for these SDGs.

XII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Stage 4 review was performed. Raw data were not evaluated for the samples reviewed by Stage 2A criteria.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples PC-150 and VD-1 (from SDG 424392) and samples M-66 and VD-2 (from SDG 424392), samples M-95 and VD-3 (from SDG 423999), samples M-11 and VD-4 (from SDG 424394), samples M-146 and VD-1 (from SDG 440-46840-1), samples M-144 and VD-2 (from SDG 440-46840-1), samples M-48A and VD-3 (from SDG 440-46009-1), samples PC-21A and VD-4 (from SDG 440-46009-1), samples PC-37 (from SDG 440-45976-1) and VD-5 (from SDG 440-46009-1), samples VD-6 (from SDG 440-46077-1) and M-23 (from SDG 440-46072-1), samples M-65 and VD-7 (from SDG 440-46077-1), samples M-35 (from SDG 440-46367-1) and VD-8 (from SDG 440-46598-1), samples VD-9 (from SDG 440-46736-1) and M-13 (from SDG 440-46744-1), samples VD-10 (from SDG 440-46454-1) and M-10 (from SDG 440-46459-1), samples M-163 and M-163-FD (from SDG 440-47410-1), samples TR-11 and TR-11-FD (from SDG 440-47410-1), and samples M-186 and M-186-FD (from SDG 440-47528-1) were identified as field duplicates. No chromium was detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-150	VD-1				
424392	Chromium	0.22	0.22	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-66	VD-2				
424392	Chromium	26	26	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-95	VD-3				
423999	Chromium	0.69	0.68	1 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-11	VD-4				
424394	Chromium	1.7	1.7	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-146	VD-1				
440-46840-1	Chromium	0.093	0.11	-	0.017 (≤0.025)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-144	VD-2				
440-46840-1	Chromium	0.058	0.065	-	0.007 (≤ 0.025)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-48A	VD-3				
440-46009-1	Chromium	1.7	1.7	0 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-21A	VD-4				
440-46009-1	Chromium	0.18	0.18	0 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-37	VD-5				
440-45976-1/ 440-46009-1	Chromium	0.21	0.18	15 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference	Flag	A or P
		VD-6	M-23				
440-46077-1/ 440-46072-1	Chromium	0.45	0.42	7 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference	Flag	A or P
		M-65	VD-7				
440-46077-1	Chromium	24	25	4 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-35	VD-8				
440-46367-1/ 440-46589-1	Chromium	4.3	4.6	7 (≤ 30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		VD-9	M-13				
440-46736-1/ 440-46744-1	Chromium	0.64	0.64	0 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-10	VD-10				
440-46454-1/ 440-46459-1	Chromium	0.52	0.59	13 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-163	M-163-FD				
440-47410-1	Chromium	0.029	0.026	11 (≤30)	-	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		TR-11	TR-11-FD				
440-47410-1	Chromium	0.015	0.015	-	0 (≤0.005)	-	-

SDG	Analyte	Concentration (mg/L)		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-186	M-186-FD				
440-47528-1	Chromium	4.3	4.5	5 (≤30)	-	-	-

2013 Annual Remedial Performance Sampling

Chromium - Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Chromium - Laboratory Blank Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Chromium - Field Blank Data Qualification Summary - SDGs 420318, 423999, 424008, 424010, 424394, 424439, 424556, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-46744-1, 440-47414-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392

No Sample Data Qualified in these SDGs

ATTACHMENT B

Wet Chemistry Data Validation Report

**Hexavalent Chromium by EPA SW 846 Method 7196 and EPA Method 218.6
Perchlorate by EPA Method 314.0
Total Dissolved Solids by Standard Method 2540C and EPA Method 160.1**

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

SDG	Sample	Analyte	Total Time From Sample Collection Until Analysis	Required Holding Time From Sample Collection Until Analysis	Flag	A or P
423999	M-95 VD-3 VD-3MS VD-3MSD	Hexavalent chromium	30.25 hours	24 hours	J- (all detects) UJ (all non-detects)	P
423999	M-44	Hexavalent chromium	29.25 hours	24 hours	J- (all detects) UJ (all non-detects)	P
423999	FB-1	Hexavalent chromium	28.75 hours	24 hours	J- (all detects) UJ (all non-detects)	P
424010	I-AR	Total dissolved solids	29 days	7 days	J- (all detects) R (all non-detects)	P
424394	M-12A EB-2	Hexavalent chromium	51.75 hours	24 hours	J- (all detects) R (all non-detects)	P
424394	M-11 M-11MS M-11MSD	Hexavalent chromium	51 hours	24 hours	J- (all detects) R (all non-detects)	P
424394	M-10	Hexavalent chromium	49.75 hours	24 hours	J- (all detects) R (all non-detects)	P
424394	VD-4	Hexavalent chromium	51.25 hours	24 hours	J- (all detects) R (all non-detects)	P
424394	M-37	Hexavalent chromium	49.5 hours	24 hours	J- (all detects) R (all non-detects)	P
424556	M-36	Hexavalent chromium	4 days	24 hours	J- (all detects) R (all non-detects)	P
440-46840-1	M-95	Hexavalent chromium	24.25 hours	24 hours	J- (all detects) UJ (all non-detects)	P
424392	EB-1	Hexavalent chromium	3 days	24 hours	J- (all detects) R (all non-detects)	P
424392	M-25 VD-2	Total dissolved solids	14 days	7 days	J- (all detects) UJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met for samples on which a Stage 4 review was performed.

Initial calibration data were not evaluated for the samples reviewed by Stage 2A criteria.

III. Continuing Calibration

Calibration verification frequency and analysis criteria were met for samples on which a Stage 4 review was performed.

Calibration verification data were not evaluated for the samples reviewed by Stage 2A criteria.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Samples EB-1 (from SDGs 424392 and 440-46009-1), EB-2 (from SDGs 424394 and 440-46077-1), EB-3 (from SDG 440-46454-1), EB-4 (from SDG 440-46744-1), E-EB-1 (from SDG 440-47410-1), E-EB-2 (from SDG 440-47410-1), E-EB-4 (from SDG 440-47528-1), and EB-M1 (from SDG 440-49007-1) were identified as equipment blanks. No contaminant concentrations were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-46009-1	EB-1	5/8/13	Perchlorate	6.2 ug/L	PC-54 M-95 PC-21A M-48A VD-3 VD-4 VD-5 M-44

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
424392	EB-1	2/5/13	Perchlorate	38 ug/L	PC-135A PC-136 PC-144 PC-148 PC-149 PC-150 M-64 M-65 M-66 M-79 M-69 M-135 M-131 M-57A M-37 M-25 VD-1 VD-2
424394	EB-2	2/6/13	Perchlorate	6.6 ug/L	M-97 I-V I-K I-J I-Z I-I M-31A M-52 M-35 M-19 M-68 M-67 M-74 M-73 M-12A M-11 M-10 VD-4
440-46077-1	EB-2	5/9/13	Perchlorate	100 ug/L	M-92 M-97 M-64 M-65 M-66 M-79 M-69 I-V VD-6 VD-7
440-46077-1	EB-2	5/9/13	Hexavalent chromium	0.76 ug/L	No associated samples in this SDG
440-46454-1	EB-3	5/14/13	Perchlorate Total dissolved solids	21 ug/L 16 mg/L	M-38 H-11 M-125 M-142 M-36 VD-10
440-46454-1	EB-3	5/14/13	Hexavalent chromium	0.30 ug/L	M-36 VD-10

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-46744-1	EB-4	5/15/13	Perchlorate Total dissolved solids	4.8 ug/L 20 mg/L	M-77 PC-77 PC-74 M-148A M-31A M-141 M-52 M-139 M-145 M-11 M-13
440-47528-1	E-EB-4	5/23/13	Perchlorate	18 ug/L	M-130 CLD1-R M-129 TR-10 TR-9 M-103 TR-8 TR-7 M-153 M-149 M-186 M-186-FD
440-49007-1	EB-M1	6/11/13	Perchlorate	11 ug/L	PC-86 PC-90 PC-91 PC-97 PC-18 PC-55 PC-101R ARP-1 ARP-2A ARP-3A ARP-4A ARP-5A ARP-6B ARP-7 PC-53 PC-103 MW-K5 M-83 PC-98R PC-58 PC-56 PC-60 PC-59 PC-62 PC-68 PC-122

Samples FB-1 (from SDGs 423999 and 440-45716-1) and FB-2 (from SDG 440-46454-1) were identified as field blanks. No contaminant concentrations were found with the following exceptions:

SDG	Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
440-46454-1	FB- 2	5/14/13	Perchlorate Total dissolved solids	5.8 ug/L 19 mg/L	M-38 H-11 M-125 M-142 M-36 VD-10

Sample concentrations were compared to concentrations detected in the field blanks as required by the QAPP. No sample data was qualified with the following exceptions:

SDG	Sample	Analyte	Reported Concentration	Modified Final Concentration
440-47528-1	TR-9	Perchlorate	2.4 ug/L	2.4J+ ug/L
440-47528-1	TR-8	Perchlorate	95 ug/L	95J+ ug/L
440-47528-1	M-153	Perchlorate	27 ug/L	27J+ ug/L

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable for samples on which a Stage 4 review was performed. Raw data were not evaluated for the samples reviewed by Stage 2A criteria.

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples PC-150 and VD-1 (from SDG 424392), samples M-66 and VD-2 (from SDG 424392), samples M-95 and VD-3 (from SDG 423999), samples M-11 and VD-4 (from SDG 424394), samples M-146 and VD-1 (from SDG 440-46840-1), samples M-144 and VD-2 (from SDG 440-46840-1), samples M-48A and VD-3 (from SDG 440-46009-1), samples PC-21A and VD-4 (from SDG 440-46009-1), samples PC-37 (from SDG 440-45976-1) and VD-5 (from SDG 440-46009-1), samples VD-6 (from SDG 440-46077-1) and M-23 (from SDG 440-46072-1), samples M-65 and VD-7 (from SDG 440-46077-1), samples M-35 (from SDG 440-46367-1) and VD-8 (from SDG 440-46598-1), samples VD-9 (from SDG 440-46736-1) and M-13 (from SDG 440-46744-1), samples VD-10 (from SDG 440-46454-1) and M-10 (from SDG 440-46459-1), samples M-163 and M-163-FD (from SDG 440-47410-1), samples TR-11 and TR-11-FD (from SDG 440-47410-1), and samples M-186 and M-186-FD (from SDG 440-47528-1) were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-150	VD-1				
424392	Perchlorate	190000 ug/L	200000 ug/L	5 (≤30)	-	-	-
424392	Total dissolved solids	5800 mg/L	5900 mg/L	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-66	VD-2				
424392	Perchlorate	1800000 ug/L	1800000 ug/L	0 (≤30)	-	-	-
424392	Total dissolved solids	14000 mg/L	14000 mg/L	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-95	VD-3				
423999	Perchlorate	390000 ug/L	380000 ug/L	3 (≤30)	-	-	-
423999	Total dissolved solids	6100 mg/L	6100 mg/L	0 (≤30)	-	-	-
423999	Hexavalent chromium	0.68 mg/L	0.69 mg/L	1 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-11	VD-4				
424394	Perchlorate	25000 ug/L	25000 ug/L	0 (≤30)	-	-	-
424394	Total dissolved solids	2500 mg/L	2500 mg/L	0 (≤30)	-	-	-
424394	Hexavalent chromium	1.7 mg/L	1.4 mg/L	19 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-146	VD-1				
440-46840-1	Perchlorate	2600 ug/L	2500 ug/L	4 (≤30)	-	-	-
440-46840-1	Total dissolved solids	3400 mg/L	3300 mg/L	3 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-144	VD-2				
440-46840-1	Perchlorate	4000 ug/L	3100 ug/L	25 (≤30)	-	-	-
440-46840-1	Total dissolved solids	4600 mg/L	4700 mg/L	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-48A	VD-3				
440-46009-1	Perchlorate	150000 ug/L	160000 ug/L	6 (≤30)	-	-	-
440-46009-1	Total dissolved solids	4100 mg/L	4000 mg/L	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-21A	VD-4				
440-46009-1	Perchlorate	2400 ug/L	2700 ug/L	12 (≤30)	-	-	-
440-46009-1	Total dissolved solids	10000 mg/L	11000 mg/L	10 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		PC-37	VD-5				
440-45976-1/ 440-46009-1	Perchlorate	400000 ug/L	390000 ug/L	3 (≤30)	-	-	-
440-45976-1/ 440-46009-1	Total dissolved solids	8000 mg/L	8200 mg/L	2 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		VD-6	M-23				
440-46077-1/ 440-46072-1	Perchlorate	290000 ug/L	210000 ug/L	32 (≤30)	-	J (all detects)	A
440-46077-1/ 440-46072-1	Total dissolved solids	4400 mg/L	4400 mg/L	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-65	VD-7				
440-46077-1	Perchlorate	1800000 ug/L	1700000 ug/L	6 (≤30)	-	-	-
440-46077-1	Total dissolved solids	15000 mg/L	17000 mg/L	13 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-35	VD-8				
440-46367-1/ 440-46598-1	Perchlorate	180000 ug/L	220000 ug/L	20 (≤30)	-	-	-
440-46367-1/ 440-46598-1	Total dissolved solids	4800 mg/L	5200 mg/L	8 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		VD-9	M-13				
440-46736-1/ 440-46744-1	Perchlorate	21000 ug/L	17000 ug/L	21 (≤30)	-	-	-
440-46736-1/ 440-46744-1	Total dissolved solids	3300 mg/L	3300 mg/L	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-10	VD-10				
440-46454-1/ 440-46459-1	Perchlorate	12000 ug/L	11000 ug/L	9 (≤30)	-	-	-
440-46454-1/ 440-46459-1	Total dissolved solids	2800 mg/L	2700 mg/L	4 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-163	M-163-FD				
440-47410-1	Perchlorate	43 ug/L	46 ug/L	-	3 (≤10)	-	-
440-47410-1	Total dissolved solids	560 mg/L	560 mg/L	0 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		TR-11	TR-11-FD				
440-47410-1	Total dissolved solids	760	770	1 (≤30)	-	-	-

SDG	Analyte	Concentration		RPD (Limits)	Difference (Limits)	Flag	A or P
		M-186	M-186-FD				
440-47528-1	Perchlorate	190000 ug/L	200000 ug/L	5 (≤30)	-	-	-
440-47528-1	Total dissolved solids	7800 mg/L	7800 mg/L	0 (≤30)	-	-	-

2013 Annual Remedial Performance Sampling

Wet Chemistry - Data Qualification Summary - SDGs 420318, 422515, 423999, 424008, 424010, 424394, 424439, 424556, 425373, 427572, 428373, 440-42678-1, 440-43599-1, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-49007-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392, 440-46744-1, 440-47414-1, 440-48113-1

SDG	Sample	Analyte	Flag	A or P	Reason
423999/ 440-46840-1	M-95 M-44 FB-1 VD-3 M-95	Hexavalent chromium	J- (all detects) UJ (all non-detects)	P	Technical holding time
424010	I-AR	Total dissolved solids	J- (all detects) R (all non-detects)	P	Technical holding time
424394/ 424556/ 424392	M-12A M-11 M-10 VD-4 EB-2 M-37 M-36 EB-1	Hexavalent chromium	J- (all detects) R (all non-detects)	P	Technical holding time
424392	M-25 VD-2	Total dissolved solids	J- (all detects) UJ (all non-detects)	P	Technical holding time
440-46077-1/ 440-46072-1	VD-6 M-23	Perchlorate	J (all detects)	A	Field duplicate (RPD)

2013 Annual Remedial Performance Sampling

Wet Chemistry - Laboratory Blank Data Qualification Summary - SDGs 420318, 422515, 423999, 424008, 424010, 424394, 424439, 424556, 425373, 427572, 428373, 440-42678-1, 440-43599-1, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-49007-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392, 440-46744-1, 440-47414-1, 440-48113-1

No Sample Data Qualified in these SDGs

2013 Annual Remedial Performance Sampling

Wet Chemistry - Field Blank Data Qualification Summary - SDGs 420318, 422515, 423999, 424008, 424010, 424394, 424439, 424556, 425373, 427572, 428373, 440-42678-1, 440-43599-1, 440-45612-1, 440-45619-1, 440-45623-1, 440-45716-1, 440-45723-1, 440-45890-1, 440-45976-1, 440-46077-1, 440-46367-1, 440-46369-1, 440-46454-1, 440-46457-1, 440-46459-1, 440-46598-1, 440-46736-1, 440-46832-1, 440-46840-1, 440-47272-1, 440-47313-1, 440-47528-1, 440-49007-1, 440-45624-1, 440-46009-1, 440-46072-1, 440-47410-1, 440-47431-1, 440-50221-1, 424392, 440-46744-1, 440-47414-1, 440-48113-1

SDG	Sample	Analyte	Modified Final Concentration	A or P
440-47528-1	TR-9	Perchlorate	2.4J+ ug/L	A
440-47528-1	TR-8	Perchlorate	95J+ ug/L	A
440-47528-1	M-153	Perchlorate	27J+ ug/L	A

Appendix D
Groundwater Field Records



Environ International Corp.
Henderson, Nevada

Feb. 4 thru Feb 13, 2013

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Field Data Letter Report

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Letter of Transmittal

Attention: John Pekala Date: Feb 21, 2013
Senior Manager
Environ International Corp.
510 Fourth St.
Henderson, NV 89015

Project:

2013 1st Quarter Groundwater Monitoring

Enclosed:

1 copy of Field Data Letter Report

Remarks:

John,
The enclosed Quarterly Groundwater Monitoring Report with supporting documents is provided for your records.

Signature:

A handwritten signature in black ink, appearing to read "Steve Kubacki".

Steve Kubacki
Veolia Water NA

Field Data Letter Report

1 INTRODUCTION

Nevada Environmental Response Trust (NERT) contracts with Veolia Water North America West LLC. (VWNA) to conduct groundwater sampling and analysis at their Chemical facility, located at 510 Fourth Street, in Henderson, Nevada. The work described herein represents the first quarter groundwater sampling event for 2013. The work was conducted in accordance with the Sampling and Analysis Work plan, submitted to Tronox January 9, 2004.

VWNA has 4 staff members trained to assist the quarterly well monitoring events. VWNA monitoring team meets twice prior to the sampling event to discuss all issues associated with this project and to review the status of action items noted in the first meeting. Sampling and laboratory equipment needs, time tables and well site schedules are reviewed. Samples and coolers are checked to ensure that there are no missing bottles.

1.1 SCOPE OF SAMPLING EVENT

This sampling effort included the following tasks:

- Measurement of the pumping water levels in 23 interceptor wells.
- Measurement of the water levels in 7 interceptor wells
- Collection of groundwater samples from 23 interceptor wells.
- Measurement of water levels in 102 monitoring wells.
- Collection of groundwater samples from 85 monitoring wells.
- Collection of groundwater samples from 16 pumping wells.
- Collection of water levels in 7 buddy wells.
- Collection of groundwater sample from 1 Art well not online (ART-6)
- Visitation to 5 dry wells.

Analysis of samples collected from the interceptor and monitoring wells, range from Perchlorate (CLO4), Total Chromium (Cr), Hexavalent Chromium (Cr+6), pH, Specific Conductance (EC), Total Dissolved Solids (TDS) and NPDES list for well M-10, (Up Well). (CR-MS, MN-MS, CU-MS, MO-MS, FE, B, CL, F, TDS, NO3, NO2-N, N-INOR, NH3, NH3-DIST)

Groundwater samples were shipped daily to Eurofins Eaton Analytical for analysis, in Monrovia, California. Eaton Analytical is certified by the State of Nevada.

The scope of this assignment also included compiling the water level and analytical data presented in this report. Data are presented in tabular form.

2 FIELD ACTIVITIES

VWNA conducted the field activities associated with this quarterly sampling event between Monday February 4th and Wednesday, February 13th, 2013. Activities included the sounding of “pumping water” levels in the interceptor wells, sounding the “static water” level in the monitoring wells and sampling of both the interceptor and monitoring wells. Prior to each quarter, an inventory list was issued to Environ and their consultants for review and comment. Sampling was conducted according to their specifications.

Eric Crawford and Keinan Pate were responsible for sample collection and recording all pertinent data on sample bottles. Michele Brown supervised the groundwater sampling activities. She is responsible for executing all work elements related to the groundwater sampling program, including laboratory equipment maintenances and calibration, fieldwork, documenting field activities, maintaining field notes and photographs (when applicable), maintaining a record of onsite personnel and visitors, and providing the Operations Manager with information concerning implementation of the sampling plan.

VWNA maintained records of daily events and pertinent sampling data of each well on a field log sheet and addendum data in a bound log book. Log sheet entries included personnel onsite, weather conditions, water levels, activities conducted, sampling times, pH, EC, temperature and other significant field information.

2.1 Water Level Measurements

VWNA measured the pumping water levels in 23 interceptor wells. The static water readings were taken in Interceptor wells I-AA, I-AB, I-AD, I-AC, I-W, I-X and I-Y. In addition to the interceptor wells, static water levels in 102 monitoring/pumping wells were taken. There were twenty-eight (28) wells where only static water levels were required. The following are the 28 wells:

M-166	M-167	M-168	M-169	M-170	M-172	M-173	M-174	M-175	M-176	M-177
ART-1A	ART-2A	ART-3	ART-4	ART-7	ART-8A	M-55	M-56	M-58	M-60	M-75
M-76	M-77	M-78	M-93	M-92	M-115					

The water levels were measured to the nearest 0.01 foot using an electronic well sounder.

2.2 Equipment Cleaning Procedures

During the measurement of water levels, the equipment was rinsed with 3 to 4 gallons of de-ionized water after use at each well. The rinse water was collected in a polyethylene container and transported to GW-11 for treatment.

3.0 **GROUNDWATER SAMPLING**

3.1 Sampling Locations

The following presents the identification of wells sampled.

3.1.1 Interceptor Wells

I-AR	I-B	I-C	I-D	I-E	I-F	I-G	I-H	I-I	I-J	I-K
I-L	I-M	I-N	I-O	I-P	I-Q	I-R	I-S	I-T	I-U	I-V
I-Z										

3.1.2 Monitoring Wells

ARP-1	ARP-2A	ARP-3A	ARP-4A	ARP-5A	ARP-6B	ARP-7	ART-7B	M-10	M-11
M-12A	M-14A	M-19	M-22A	M-23	M-25	M-31A	M-35	M-36	M-37
M-38	M-44	M-48A	M-52	M-57A	M-64	M-65	M-66	M-67	M-68
M-69	M-70	M-71	M-72	M-73	M-74	M-79	M-80	M-81A	M-83

M-95	PC-54	M-97		M-131	M-135	MW-K4	MW-K5	PC-18	PC-53
PC-55	PC-56	PC-58	PC-59	PC-60	PC-62	PC-68	PC-86	PC-90	PC-91
PC-94	PC-97	PC-98R	PC-101R	PC-103	PC-122	PC-123	PC-124	PC-125	PC-126
PC-127	PC-128	PC-129	PC-130	PC-131	PC-132	PC-135A	PC-136	PC-144	PC-148
PC-149	PC-150	PC-37	PC-71	PC-72	PC-73				

3.1.3 Sampling Ports

ART-1	ART-2	ART-3A	ART-4A		ART-7A
ART-8	ART-9	PC-99R2/R3	PC-115R	PC-116R	PC-117
PC-118	PC-119	PC-120	PC-121	PC-133	

4.0 SAMPLING TECHNIQUES

4.1 Interceptor Wells

All interceptor wells were sampled using dedicated sampling ports. At the beginning of sampling each well or line, personnel wore a new pair of clean nitrile or latex gloves.

The sampling port was opened to drain any stagnant water from piping and valves. This water is captured and containerized. All captured water is off-loaded at GW-11 for onsite treatment.

Following the purging of the sample port, a “water quality” sample was collected for analysis of Perchlorate, Total Chromium, pH, and TDS. VWNA also recorded the “*field*” temperature, pH, and conductivity as well as the pumping water level. The “*field*” parameters are provided in Table 1.

4.2 Monitoring Wells

Monitoring wells were purged before sampling to assure that each sample was collected from fresh formation water.

Eighty-one (81) wells were purged and sampled, using the 12 volt submersible pump. Two wells (2), M-10 and M-11, were purged with the “Ready Flo 2” with variable pump flow control. Two (2) wells, M-36 and M-38 were purged with a dedicated bailer. One well was sampled using a

non dedicated/disposable bailer, ART-6. Five wells (5), M-96, M-98, M-99, M-100 and M-101, were found to be dry. Hand bailing was done as a result of only needing to purge less than 3 gallons of water, if there was an insufficient amount of water in the well casing to use a pump or due to the location of the well.

Samples for both the interceptor and monitoring wells were collected in appropriate containers supplied by Eurofins Eaton analytical Laboratories and analyzed for the specific required analysis of the well. The bottles were filled with minimal aeration, using laminar flow.

The samples were labeled, packaged, stored, and transported using the procedures outlined in the work plan for well samples. Clear tape may have been used on some bottles to maintain the information integrity of the labels. Where leaking acid` removed the pre labeled information, it was hand restored.

4.3 Problems Encountered

Five wells, PC-58, PC-56, PC-60, PC-62, and PC-59, in the Western Hook area were extended approximately 10 feet from the original TWD. For calculation of purging purposes 10' was added to the TWD on the field log for each well.

DTW readings in the following Interceptor wells were abnormally high: I-J, I-K, I-Q, I-X, I-Y, I-Z. Readings were double checked for accuracy.

4.4 Equipment Cleaning Procedures

In addition to using much more water to flush and decontaminate the deionized is changed each morning so the rinsing water is fresh. Non-dedicated sampling equipment was cleaned and decontaminated before use at each new sampling location. Conductivity meter probes, pH electrodes, were thoroughly rinsed with de-ionized water after each well was sampled. The rinsate is captured in a special use bucket for decontamination.

5.0 QUALITY CONTROL

Quality control (QC) procedures include collection and analysis of QC duplicate samples, equipment and field blanks. The analytical laboratory is also required to meet specific QA/QC requirements for surrogate recovery, MS/MSD recovery and RPDs, and LCS recoveries.

Duplicate SC readings were conducted at one well each day to insure the accuracy of the Hanna field probe.

5.1 QC Duplicate Samples

QC duplicate samples were collected during the sampling event to evaluate the precision and accuracy of analytical data. The QC duplicates were collected, packaged, and transported in the same manner as the primary sample, but assigned a different identification number.

Four (4) duplicates were collected from the wells, representing at least 5 percent of the samples collected. The duplicate samples were collected from wells M-66, PC-150, M-95 and M-11. They were analyzed for the same parameters as the primary samples. Eurofins Eaton Analytical was not informed of the identity of these "blind" samples.

Duplicate "field" EC monitoring was conducted on one well visited for that day.

5.2 Equipment Blanks

Two equipment blanks were taken this quarter. The equipment blanks were collected on February 5th and February 6th, 2013. One set of six bottles for each day for a total of twelve bottles. This was done to evaluate the adequacy of cleaning procedures used by field personnel during this sampling event.

5.3 Field Blanks

One field blank sample was collected on February 4th, 2013. One set of six bottles was sent to the laboratory for analysis to evaluate the integrity of the de-ionized water used to clean and purge the sampling equipment.

6.0 ANALYTICAL PROCEDURES

The following designates the parameter, analytical method and method reporting limits for groundwater. Some of the following analysis may not have been performed for this reporting period. VWNA lists all appropriate information to include analysis conducted throughout the entire year:

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>MRL</u>
CLO4	EPA Method 314	4.0 µg/L
Total Chromium	EPA Method 200.7	0.01 mg/L
Hexavalent Chromium (Cr+6)	EPA Method 4500 CR-D	0.005 mg/L,
pH	EPA Method 150	.01 units
EC	EPA Method 2510	2 µohms/cm
TDS	EPA Method 2540C.	10 mg/L

Eurofins Eaton Analytical Laboratory QC analytical method and method reporting limits information, was taken from the Eurofins Eaton Analytical Laboratory Data Report.

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>MRL</u>
Chloride	EPA Method 300	80.0 mg/L
Iron (ICAP)	EPA Method 200.7	0.005 mg/L
Manganese (ICAP/MS)	EPA Method 200.8	100 µg/L
Sodium (ICAP)	EPA Method 200.7	5 mg/L
Phenolic Compounds	EPA Method 420.1, 420.2	.010 mg/L
Sulfate	EPA Method 300	80 mg/L
Total Organic Carbon, TOC	EPA Method (ML/SM 5310C)	unknown
Total Organic Halogen, TOX	EPA Method (ML/9020 / SM5320)	unknown
Boron	EPA 200.7	.10 mg/L
Fluoride	SM4500F-C	.050 mg/L
Molybdenum	EPA 200.8	2.0 ug/L

Total Organic Nitrogen	EPA Method 300	0.200 mg/L
Ammonia Nitrogen	EPA Method 350	0.050 mg/L
Nitrate Nitrogen	EPA Method 300	2.0 mg/L
Copper	EPA Method 200.8	2.0 ug/L

6.1 Field Equipment Calibration

Prior to the start of each day’s events, field laboratory equipment was calibrated. A Hanna HI 98130 water proof pH, EC/TDS and temperature field probe was calibrated and measurements recorded on daily laboratory calibration maintenance forms, which have been provided.

7.0 SUMMARY RESULTS

7.1 Water Level Measurements

A summary of water level measurements collected for the interceptor and monitoring wells are presented in Table 1.

Pumping water level in interceptors wells. (Measured in feet from below the top of casing.)

LOW

44.80 (I-H)

HIGH

22.68 (I-I)

Static water level monitoring wells. (Measured in feet from below the top of casing.)

LOW

46.92 (M-10)

HIGH

5.11 (PC-97)

7.2 Summary of Field Activities

7.2.1 Interceptor Wells

CLO4, Cr, TDS, pH

23 interceptor wells

7.2.2 Monitoring Wells

CLO4, Cr, Cr+6, pH, and TDS	7 monitoring wells
CLO4, Cr, pH and TDS	78 monitoring wells

7.2.3 QC Duplicate Samples (Measured for the same analyses as the primary samples.)

M-95 and M-11 (Measured for CLO4, Total Cr., Hex Cr., pH and TDS)

PC-150 and M-66 (Measured for Total Cr., pH, CLO4 and TDS)

7.2.4 Equipment Blanks

Two equipment blanks were analyzed for CLO4, Total Cr., Hex Cr., pH, and TDS.

7.2.5 Field Blank

One field blank was analyzed for CLO4, Total Cr., Hex Cr., pH and TDS.

Weather	cool/cloudy
Total # of wells sampled	125
Total water samples collected	132
Total Wells measured DTW only	35
Total Duplicate Samples (5%)	4
Total Equipment Blanks	2
Total Field Blanks	1
Total Wells hand bailed	3
Total Wells considered DRY	5
Total Wells not accessible	0



Table of Well Gauging Data

This Section Contains:

- Field Sign - In Log
- Daily Maintenance & Calibration Log
- Table 1 Well Inventory
- Chain-of-Custody & Bottle Order Forms



DAILY MAINTENANCE AND CALIBRATION RECORD

DATE 2-4-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>7.02</u>	2) <u>7.98</u>	<u>415A/MB</u>
Buffer Temperature	3) <u>20.6</u>	3) <u>21.4</u>	
changed buffers			
yes <u>X</u>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>1215</u>	<u>410A/MB</u>
Calibration Value	1) <u>1288</u>	
Standard Temp	1) <u>21.6</u>	
changed standards		
yes <u>X</u>		
please check		

Duplicate EC reading Well # M-23

1st Reading

2nd Reading

EC 5.68 TEMP 23.7⁰⁰
mS/cm

EC 5.72 TEMP 23.6⁰⁰
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 2-4-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD

DATE 2-5-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst <u>425A/MB</u>
Calibration Value	2) <u>7.01</u>	2) <u>8.02</u>	
Buffer Temperature	3) <u>20.4</u>	3) <u>20.5</u>	
changed buffers yes <u>X</u> please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst <u>420A/MB</u>
Temp. Comp. Value	1) <u>11.67</u>	
Calibration Value	1) <u>1287</u>	
Standard Temp	1) <u>20.3</u>	
changed standards yes <u>X</u> please check		

Duplicate EC reading Well # M-57A

1st Reading

2nd Reading

EC 4.10 TEMP 24.3°
mScm

EC 4.08 TEMP 24.4°
mScm

All equipment was rinsed and purged with Deionized water after each well.

Date 2-5-13 Verified MM



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 2-6-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>7.02</u>	2) <u>8.02</u>	<u>535A/MB</u>
Buffer Temperature	3) <u>21.3</u>	3) <u>21.0</u>	
changed buffers yes _____ please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>11.91</u>	<u>530A/MB</u>
Calibration Value	1) <u>129.0</u>	
Standard Temp	1) <u>21.3°C</u>	
changed standards yes <u>X</u> please check		

Duplicate EC reading

Well # M-10

1st Reading

2nd Reading

EC 3.51 TEMP 25.0°C
mjs/cm

EC 3.50 TEMP 25.1°C
mjs/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 2-6-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 2-7-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>6.98</u>	2) <u>7.98</u>	<u>530a</u> / <u>MB</u>
Buffer Temperature	3) <u>20.3</u>	3) <u>20.1</u>	
changed buffers			
yes <input checked="" type="checkbox"/>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>116.7</u>	<u>525A</u> / <u>MB</u>
Calibration Value	1) <u>1286</u>	
Standard Temp	1) <u>20.3</u>	
changed standards		
yes <input checked="" type="checkbox"/>		
please check		

Duplicate EC reading Well # M-14A

1st Reading

2nd Reading

EC 4.77 TEMP 23.4°C
mScm

EC 4.78 TEMP 23.0°C
mScm

All equipment was rinsed and purged with Deionized water after each well.

Date 2-7-13 Verified MB

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada

Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
ARP-1	44.2	1613.32	24.22		1589.10			2/12/2013	1:53p		pH, TDS, Cr, ClO ₄
ARP-2A	54	1614.18	25.83		1588.35			2/13/2013	1:09p		pH, TDS, Cr, ClO ₄
ARP-3A	41	1614.67	27.24		1587.43			2/13/2013	12:57p		pH, TDS, Cr, ClO ₄
ARP-4A	33	1615.47	29.2		1586.27			2/13/2013	12:30p		pH, TDS, Cr, ClO ₄
ARP-5A	38	1616.10	32.68		1583.42			2/13/2013	12:20p		pH, TDS, Cr, ClO ₄
ARP-6B	43	1615.56	32.2		1583.36			2/13/2013	12:00p		pH, TDS, Cr, ClO ₄
ARP-7	39.2	1613.20	30.16		1583.04			2/13/2013	11:38		pH, TDS, Cr, ClO ₄
ART-1	56	1614.47	25.6		1588.87			2/4/2013	10:19a	pumping	pH, TDS, Cr, ClO ₄
ART-1A	56	1614.40	24.18		1590.22			2/4/2013	10:21a		DTW Only
ART-2	56	1617.10	27.8		1589.30			2/4/2013	10:24a	pumping	pH, TDS, Cr, ClO ₄
ART-2A	58	1616.81	26.73		1590.08			2/4/2013	10:26a		DTW Only
ART-3	47	1617.93	30.88		1587.05			2/4/2013	10:33a		DTW Only
ART-3A	55	1617.60	36.81		1580.79			2/4/2013	10:34a	pumping	pH, TDS, Cr, ClO ₄
ART-4	46	1617.39	28.15		1589.24			2/4/2013	10:38a		DTW Only
ART-4A	46	1617.46	42.96		1574.50			2/4/2013	10:41a	pumping	pH, TDS, Cr, ClO ₄
ART-6	36	1615.19	32.79		1582.40			2/4/2013	9:56a		pH, TDS, Cr, ClO ₄
ART-7	38.9	1615.37	33.78		1581.59			2/4/2013	10:07a		DTW Only
ART-7A	40	1614.78	33.85		1580.93			2/4/2013	10:05a	pumping	pH, TDS, Cr, ClO ₄
ART-7B	50	1619.62	35.10		1584.52			2/13/2013	10:12a		pH, TDS, Cr, ClO ₆

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TABLE 1
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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
ART-8	50.5	1617.66	32.78		1584.88			2/4/2013	10:29a	pumping	pH, TDS, Cr, ClO ₄
ART-8A	54	1617.10	27.9		1589.20			2/4/2013	10:30a		DTW Only
ART-9	43	1614.90	37.93		1576.97			2/4/2013	10:00a	pumping	pH, TDS, Cr, ClO ₄
M-2A	47.57	1781.16			1781.16	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO ₄
M-5A	50.00	1751.80			1751.80	Sampled in 2nd and 3rd quarters only					(pH/SC/TOC/TOX) x 4 / CLO4 / CR / TDS
M-6A	46.00	1733.19			1733.19	Sampled in 2nd and 3rd quarters only					(pH/SC/TOC/TOX) x 4 / CLO4 / CR / TDS
M-7B	55.00	1732.83			1732.83	Sampled in 2nd and 3rd quarters only					(pH/SC/TOC/TOX) x 4 / CLO4 / CR / TDS
M-10	69.45	1836.21	46.92		1789.29	6.92	3.51	2/6/2013	12:04p		pH / CR6 / Cr / ClO ₄ / TDS /+NPDES list
M-11	58.00	1815.53	42.02		1773.51	7.91	3.34	2/6/2013	11:16a		pH / TDS / Cr / Cr6 / ClO ₄
M-12A	50.00	1812.76	39.63		1773.13	7.97	7.69	2/6/2013	10:52a		pH / TDS / Cr / Cr6 / ClO ₄
M-13	54.76	1814.89			1814.89	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO ₄
M-14A	42.40	1760.93	31.40		1729.53	7.39	4.77	2/7/2013	9:36a		pH, TDS, Cr, ClO ₄
M-19	41.20	1766.77	33.89		1732.88	7.25	6.44	2/6/2013	6:30a		pH, TDS, Cr, ClO ₄
M-21	44.74	1792.07			1792.07	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO ₄
M-22A	36.92	1759.46	29.24		1730.22	7.14	13.76	2/7/2013	9:19a		pH, TDS, Cr, ClO ₄
M-23	44.47	1720.35	32.83		1687.52	7.28	5.68	2/4/2013	11:31a		pH, TDS, Cr, ClO ₄
M-25	41.47	1759.93	31.12		1728.81	7.20	1/9/1900	2/5/2013	12:13p		pH, TDS, Cr, ClO ₄
M-31A	55.00	1796.87	42.68		1754.19	7.53	2.26	2/6/2013	10:15a		pH, TDS, Cr, ClO ₄

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID 1	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER 2	COMMENTS/Analytical Plan/Temp
M-33	46.78	1800.29			1800.29	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO ₄
M-35	39.70	1772.78	30.89		1741.89	7.19	5.11	2/6/2013	6:11a		pH, TDS, Cr, ClO ₄
M-36	37.85	1759.82	31.02		1728.80	7.00	17.15	2/7/2013	9:58a		pH / Cr / Cr ⁶ / ClO ₄ / TDS
M-37	37.18	1761.06	30.27		1730.79	6.89	8.52	2/4/2013	11:57a		pH / Cr / Cr ⁶ / ClO ₄ / TDS
M-38	36.82	1759.73	30.14		1729.59	7.08	14.19	2/7/2013	10:01a		pH, TDS, Cr, ClO ₄
M-44	37.65	1698.31	23.26		1675.05	7.36	9.46	2/4/2013	9:57a		pH / TDS / Cr / Cr ⁶ / ClO ₄
M-48A	40	1718.36	28.42		1689.94	7.39	3.63	2/4/2013	9:37a		pH, TDS, Cr, ClO ₄
M-52	47.38	1801.92	39.55		1762.37	7.48	6.44	2/6/2013	10:32a		pH, TDS, Cr, ClO ₄
M-55	45.00	1750.88	26.47		1724.41			2/4/2013	1:22p		DTW Only
M-56	40.00	1750.83	27.43		1723.40			2/4/2013	1:36p		DTW Only
M-57A	42.40	1753.44	28.64		1724.80	7.57	4.10	2/5/2013	11:41a		pH, TDS, Cr, ClO ₄
M-58	45.00	1751.25	29.61		1721.64			2/4/2013	2:00p		DTW Only
M-60	43.00	1750.94	28.90		1722.04			2/4/2013	1:43p		DTW Only
M-64	38.00	1749.76	26.45		1723.31	7.36	8.44	2/5/2013	5:14a		pH, TDS, Cr, ClO ₄
M-65	40.00	1753.91	28.64		1725.27	7.12	14.45	2/5/2013	10:00a		pH, TDS, Cr, ClO ₄
M-66	43.00	1754.24	30.15		1724.09	6.96	15.48	2/5/2013	10:16a		pH, TDS, Cr, ClO ₄
M-67	38.00	1745.91	20.97		1724.94	7.20	6.52	2/6/2013	7:37a		pH, TDS, Cr, ClO ₄
M-68	41.00	1750.23	25.57		1724.66	7.21	6.83	2/6/2013	6:49a		pH, TDS, Cr, ClO ₄

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M-69	40.00	1749.75	31.48		1718.27	7.33	5.04	2/5/2013	10:56a		pH, TDS, Cr, ClO ₄
M-70	41.00	1748.25	32.84		1715.41	7.35	6.31	2/7/2013	7:55a		pH, TDS, Cr, ClO ₄
M-71	43.00	1747.04	34.81		1712.23	6.94	9.05	2/7/2013	8:11a		pH, TDS, Cr, ClO ₄
M-72	36.00	1746.49	31.61		1714.88	6.99	10.67	2/7/2013	8:26a		pH, TDS, Cr, ClO ₄
M-73	36.00	1741.14	28.74		1712.40	7.34	8.76	2/6/2013	8:16a		pH, TDS, Cr, ClO ₄
M-74	39.00	1744.38	28.79		1715.59	7.32	7.09	2/6/2013	7:58a		pH, TDS, Cr, ClO ₄
M-75	53.90	1784.21	41.37		1742.84			2/6/2013	8:48a		DTW ONLY
M-76	54.60	1785.22	38.25		1746.97			2/6/2013	8:51a		DTW ONLY
M-77	47.20	1799.61	36.03		1763.58			2/6/2013	10:12a		DTW ONLY
M-78	43.60	1751.50	27.45		1724.05			2/4/2013	1:24p		DTW ONLY
M-79	37.60	1742.53	29.25		1713.28	7.35	5.67	2/5/2013	10:38a		pH / TDS / Cr / ClO ₄
M-80	43.70	1746.04	35.56		1710.48	7.63	2.30	2/7/2013	6:10a		TDS / Cr / ClO ₄
M-81A	41.60	1744.16	35.23		1708.93	7.01	6.70	2/7/2013	5:54a		TDS / Cr / ClO ₄
M-83	42.50	1742.77	30.97		1711.80	7.37	3.02	2/7/2013	7:39a		pH, TDS, Cr, ClO ₄
M-92	48.50	1800.76	35.03		1765.73			2/6/2013	9:03a		DTW ONLY
M-93	49.00	1797.54	34.14		1763.40			2/6/2013	9:07a		DTW ONLY
M-95	30.00	1694.09	16.20		1677.89	7.42	6.85	2/4/2013	8:50a		pH / TDS / Cr / Cr6 / ClO ₄
M-96	16.90	1693.52	16.10		1677.42			2/4/2013	8:38a	DRY	pH, TDS, Cr, ClO ₄

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TABLE 1
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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
M-97	52.50	1800.85	38.64		1762.21	7.41	5.56	2/6/2013	9:11a		DTW ONLY
M-98	33.40	1731.90			1731.90			2/5/2013	2:00p	DRY	pH, TDS, Cr, ClO ₄
M-99	35.59	1730.74			1730.74			2/5/2013	1:27p	DRY	pH, TDS, Cr, ClO ₄
M-100	33.81	1730.93			1730.93			2/5/2013	1:29p	DRY	pH / TDS / Cr / Cr6 / ClO ₄
M-101	32.15	1730.81			1730.81			2/5/2013	1:32p	DRY	pH, TDS, Cr, ClO ₄
M-115	47.50	1787.64	36.46		1751.18			2/6/2013	8:54a		DTW ONLY
M-131	39.00	1754.13	31.52		1722.61	7.56	4.49	2/4/2013	11:26a		pH, TDS, Cr, ClO ₄
M-135	39.00	1751.85	32.60		1719.25	7.52	4.72	2/4/2013	11:08a		pH, TDS, Cr, ClO ₄
M-166	32.00	1751.09	27.83		1723.26			2/4/2013	12:52p		DTW Only
M-167	30.00	1749.95	24.61		1725.34			2/4/2013	1:03p		DTW Only
M-168	35.00	1748.46	23.41		1725.05			2/4/2013	1:07p		DTW Only
M-169	35.00	1750.22	24.80		1725.42			2/4/2013	1:12p		DTW Only
M-170	35.00	1750.66	26.21		1724.45			2/4/2013	1:20p		DTW Only
M-172	37.00	1750.58	26.70		1723.88			2/4/2013	1:28p		DTW Only
M-173	40.00	1749.88	28.08		1721.80			2/4/2013	1:49p		DTW Only
M-174	28.00	1742.29	19.61		1722.68			2/4/2013	2:05p		DTW Only
M-175	29.00	1742.74	19.87		1722.87			2/4/2013	2:08p		DTW Only
M-176	30.00	1745.35	22.50		1722.85			2/4/2013	2:10p		DTW Only

Signature *Michelle Brown*
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M-177	30.00	1743.23	20.37		1722.86			2/4/2013	2:13p		DTW Only
MW-K4	50	1614.96	28.01		1586.95			2/13/2013	12:42p		pH, TDS, Cr, ClO ₄
MW-K5	44	1598.87	30.65		1568.22			2/13/2013	11:23a		pH, TDS, Cr, ClO ₄
PC-18	52	1618.39	28.80		1589.59			2/12/2013	1:30p		pH, TDS, Cr, ClO ₄
PC-53	33	1595.17	26.82		1568.35			2/13/2013	11:12a		pH, TDS, Cr, ClO ₄
PC-55	54.9	1618.46	27.55		1590.91			2/12/2013	2:11p		pH, TDS, Cr, ClO ₄
PC-56	55	1568.25	21.78		1546.47			2/12/2013	11:13a		pH, TDS, Cr, ClO ₄
PC-58	33	1567.01	22.62		1544.39			2/12/2013	10:52a		pH, TDS, Cr, ClO ₄
PC-59	35	1567.92	20.40		1547.52			2/12/2013	12:00p		pH, TDS, Cr, ClO ₄
PC-60	40.0	1568.38	21.00		1547.38			2/12/2013	11:38		pH, TDS, Cr, ClO ₄
PC-62	38.0	1567.83	19.80		1548.03			2/12/2013	12:23p		pH, TDS, Cr, ClO ₄
PC-68	55.3	1566.97	12.79		1554.18			2/12/2013	12:45p		pH, TDS, Cr, ClO ₄
PC-86	28.0	1553.85	6.62		1547.23			2/12/2013	10:11a		pH, TDS, Cr, ClO ₄
PC-90	15.0	1550.46	6.72		1543.74			2/12/2013	9:50a		pH, TDS, Cr, ClO ₄
PC-91	37.0	1552.33	12.10		1540.23			2/12/2013	10:27a		pH, TDS, Cr, ClO ₄
PC-92	22.0	1552.05			1552.05	Sampled in the 2nd Quarter only					pH, TDS, Cr, ClO ₄
PC-94	20.0	1548.95	12.72		1536.23			2/13/2013	9:30a		pH, TDS, Cr, ClO ₄
PC-95	35.0	1550.62			1550.62					Destroyed	pH, TDS, Cr, ClO ₄

Signature *Michelle Brown*
Print *Michelle Brown*

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada

Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
PC-97	33.5	1548.53	5.11		1543.42			2/12/2013	9:30a		pH, TDS, Cr, ClO ₄
PC-98R	40.5	1593.35	24.77		1568.58			2/13/2013	1:45p		pH, TDS, Cr, ClO ₄
PC-99R2/R3	55.3	1552.48	35.94		1516.54			2/4/2013	9:09a	pumping	pH, TDS, Cr, ClO ₄
PC-101R	50.5	1618.04	29.48		1588.56			2/13/2013	2:20p		pH, TDS, Cr, ClO ₄
PC-103	29.5	1599.49	24.33		1575.16			2/13/2013	1:30p		pH, TDS, Cr, ClO ₄
PC-115R	55.5	1554.71	12.41		1542.30			2/4/2013	9:12a	pumping	pH, TDS, Cr, ClO ₄
PC-116R	55.5	1552.10	15.19		1536.91			2/4/2013	9:06a	pumping	pH, TDS, Cr, ClO ₄
PC-117	53.0	1552.26	13.60		1538.66			2/4/2013	9:01a	pumping	pH, TDS, Cr, ClO ₄
PC-118	51.0	1554.53	9.55		1544.98			2/4/2013	9:16a	pumping	pH, TDS, Cr, ClO ₄
PC-119	47.0	1554.66	7.38		1547.28			2/4/2013	9:20a	pumping	pH, TDS, Cr, ClO ₄
PC-120	47.0	1554.64	5.26		1549.38			2/4/2013	9:23a	pump off	pH, TDS, Cr, ClO ₄
PC-121	38.5	1554.10	5.16		1548.94			2/4/2013	9:25a	pump off	pH, TDS, Cr, ClO ₄
PC-122	38.0	1618.02	32.71		1585.31			2/13/2013	10:57a		pH, TDS, Cr, ClO ₄
PC-123	34.70	1626.44	22.77		1603.67	7.02	8.11	2/4/2013	5:08a		pH, TDS, Cr, ClO ₄
PC-124	34.60	1635.73	24.88		1610.85	7.21	10.84	2/4/2013	7:10a		pH, TDS, Cr, ClO ₄
PC-125	33.50	1635.06	23.15		1611.91	7.30	10.39	2/4/2013	7:32a		pH, TDS, Cr, ClO ₄
PC-126	34.30	1634.33	22.00		1612.33	7.24	13.21	2/4/2013	7:47a		pH, TDS, Cr, ClO ₄
PC-127	34.70	1632.42	18.60		1613.82	7.36	7.76	2/4/2013	8:03a		pH, TDS, Cr, ClO ₄

Signature: *Michele Brown*
Print: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
PC-128	34.70	1633.36	18.30		1615.06	7.29	7.25	2/4/2013	5:34a		pH, TDS, Cr, ClO ₄
PC-129	37.70	1633.99	18.12		1615.87	7.19	8.62	2/4/2013	5:51a		pH, TDS, Cr, ClO ₄
PC-130	49.70	1633.21	18.91		1614.30	7.32	8.77	2/4/2013	6:08a		pH, TDS, Cr, ClO ₄
PC-131	39.40	1633.58	10.78		1622.80	7.23	13.31	2/4/2013	6:27a		pH, TDS, Cr, ClO ₄
PC-132	39.70	1634.84	9.48		1625.36	7.24	13.11	2/4/2013	6:50a		pH, TDS, Cr, ClO ₄
PC-133	40.2	1553.00			1553.00					Sampled but no DTW, Roots in well	pH, TDS, Cr, ClO ₄
PC-135A	50.8	1618.58	29.51		1589.07	7.21	12.70	2/5/2013	7:05a		pH, TDS, Cr, ClO ₄
PC-136	40.3	1618.04	33.66		1584.38	7.32	7.13	2/5/2013	6:36a		pH, TDS, Cr, ClO ₄
PC-144	39.7	1618.63	30.59		1588.04	7.27	7.78	2/5/2013	6:52a		pH, TDS, Cr, ClO ₄
PC-148	50.2	1617.96	28.68		1589.28	7.40	9.74	2/5/2013	7:24a		pH, TDS, Cr, ClO ₄
PC-149	50	1618.93	29.63		1589.30	7.33	5.32	2/5/2013	7:59a		pH, TDS, Cr, ClO ₄
PC-150	45.7	1619.09	29.95		1589.14	7.36	7.63	2/5/2013	8:41a		pH, TDS, Cr, ClO ₄
INTERCEPTOR WELLS											
I-AA	46.00	1753.93	31.62		1722.31			2/4/2013	12:47p	Pump Off	DTW ONLY
I-AB	52.0	1753.89	31.22		1722.67			2/4/2013	12:49p	Pump Off	DTW ONLY
I-AC	50	1752.76	28.86		1723.90			2/6/2013	6:45a	Pump Off	DTW ONLY
I-AD	50	1755.39	29.11		1726.28			2/6/2013	6:47a	Pump Off	DTW ONLY
I-AR	45.00	1758.35	35.70		1722.65	6.93	8.95	2/4/2013	12:45p		pH, TDS, Cr, ClO ₄
I-B	45.70	1752.87	41.97		1710.90	6.95	7.04	2/4/2013	12:55p		pH, TDS, Cr, ClO ₄

Signature Michele Brown
Print Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
I-C	43.80	1752.77	40.80		1711.97	7.39	9.85	2/4/2013	1:18p		pH, TDS, Cr, ClO ₄
I-D	47.70	1752.67	43.41		1709.26	7.47	9.71	2/4/2013	2:23p		pH, TDS, Cr, ClO ₄
I-E	46.70	1752.36	43.05		1709.31	6.95	12.47	2/4/2013	2:18p		pH, TDS, Cr, ClO ₄
I-F	45.80	1749.70	41.12		1708.58	7.02	15.35	2/4/2013	1:31p		pH, TDS, Cr, ClO ₄
I-G	42.60	1752.50	40.10		1712.40	6.89	15.58	2/4/2013	1:39p		pH, TDS, Cr, ClO ₄
I-H	46.50	1753.21	44.30		1708.91	7.22	15.28	2/4/2013	1:46p		pH, TDS, Cr, ClO ₄
I-I	44.20	1745.50	22.68		1722.82	7.32	10.48	2/6/2013	7:21a		pH, TDS, Cr, ClO ₄
I-J	44.50	1750.09	28.18		1721.91	7.08	7.24	2/6/2013	7:09a		pH, TDS, Cr, ClO ₄
I-K	40.60	1746.04	25.15		1720.89	7.41	6.98	2/6/2013	7:06a		pH, TDS, Cr, ClO ₄
I-L	43.40	1751.69	32.00		1719.69	6.89	12.29	2/4/2013	1:05p		pH, TDS, Cr, ClO ₄
I-M	43.70	1752.90	40.12		1712.78	7.26	11.32	2/4/2013	2:21p		pH, TDS, Cr, ClO ₄
I-N	41.70	1751.45	38.20		1713.25	7.18	14.65	2/4/2013	2:16p		pH, TDS, Cr, ClO ₄
I-O	43.80	1752.79	35.12		1717.67	7.08	14.42	2/4/2013	1:55p		pH, TDS, Cr, ClO ₄
I-P	47.80	1751.66	41.63		1710.03	7.02	14.87	2/4/2013	1:50p		pH, TDS, Cr, ClO ₄
I-Q	43.80	1753.11	29.02		1724.09	7.15	15.6	2/4/2013	1:34p		pH, TDS, Cr, ClO ₄
I-R	45.30	1751.35	41.29		1710.06	7.28	10.49	2/4/2013	12:58p		pH, TDS, Cr, ClO ₄
I-S	47.70	1750.03	43.71		1706.32	7.20	13.16	2/4/2013	1:15p		pH, TDS, Cr, ClO ₄
I-T	47.80	1751.66	34.73		1716.93	7.18	15.84	2/4/2013	1:41p		pH, TDS, Cr, ClO ₄

Signature: *Michele Brown*
Print: Michele Brown

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
I-U	47.60	1752.17	37.59		1714.58	7.03	15.60	2/4/2013	1:57p		pH, TDS, Cr, ClO ₄
I-V	47.70	1752.13	31.51		1720.62	7.30	12.74	2/6/2013	7:27a		pH, TDS, Cr, ClO ₄
I-W	50.00	1751.50	30.76		1720.74			2/4/2013	1:53p		DTW ONLY
I-X	50.00	1748.60	24.72		1723.88			2/4/2013	12:26p		DTW ONLY
I-Y	35.00	1751.40	25.80		1725.60			2/4/2013	1:00p		DTW ONLY
I-Z	37.00	1743.78	27.05		1716.73	7.28	7.69	2/6/2013	7:16a		pH, TDS, Cr, ClO ₄
OTHER WELLS (OFFSITE)											
PC-37	43.08	1707.72	29.14		1678.58	7.43	9.44	2/4/2013	11:07a		pH, TDS, Cr, ClO ₄
PC-54	34.60	1704.43	22.51		1681.92	7.39	6.21	2/4/2013	9:17a		pH, TDS, Cr, ClO ₄
PC-71	33.23	1698.73	25.83		1672.90	7.49	8.73	2/4/2013	10:12a		pH, TDS, Cr, ClO ₄
PC-72	39.54	1699.43	28.20		1671.23	7.45	8.22	2/4/2013	10:31a		pH, TDS, Cr, ClO ₄
PC-73	49.44	1699.50	29.29		1670.21	7.38	8.62	2/4/2013	10:46a		pH, TDS, Cr, ClO ₄
PIONEER CHEMICAL WELL											
H-28A	51.00	1731.75			1731.75	Sampled in 2nd and 3rd quarters only					(pH / SC / TOC / TOX) x 4 / ClO ₄ / CR / TDS
DUPLICATE SAMPLES											
VD-1	PC-150	1619.09	30		1589.14	7.36	7.63	2/5/2013	8:41a		pH, TDS, Cr, ClO ₄
VD-2	M-66	1754.24	30		1724.09	6.96	15.48	2/5/2013	10:16a		pH, TDS, Cr, ClO ₄
VD-3	M-95	1694.09	16.2		1677.89	7.42	6.85	2/4/2013	8:50a		pH / TDS / Cr / Cr6 / ClO ₄
VD-4	M-11	1815.53	42.02		1773.51	7.91	7.69	2/6/2013	10:52a		pH / TDS / Cr / Cr6 / ClO ₄
OTHER SAMPLES COLLECTED											

Signature *Michelle Brown*
Print *Michelle Brown*

TABLE 1
Well Inventory for Groundwater Sampling
NERT Project, Henderson, Nevada
Summary of Field Data for: 1st Quarter Groundwater Monitoring, Feb. 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
EB-1								2/5/2013	10:50a		pH / TDS / Cr / Cr6 / Cl04
EB-2								2/6/2013	11:08a		pH / TDS / Cr / Cr6 / Cl04
FB-1								2/4/2013	10:40a		pH / TDS / Cr / Cr6 / Cl04

Signature Michelle Brown
Print Michelle Brown



Caltrans Accredited
Contract 12P 00000000

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME
Nevada Environmental Response Trust
SAMPLER Michele Brown

PROJECT JOB # / P.O.#
Quarterly Groundwater Sampling
Schedule B CWA-RCRA

Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60606

John Pekala 602-734-7710

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH	TDS	CR	CLO4	Sterile CLO4	CRVI	SAMPLER Comments
1228p	2-4-13		I-O	RGW	X		X	X	X	X	X		5 Bottles
1232p	2-4-13		I-P	RGW	X		X	X	X	X	X		5 Bottles
1235p	2-4-13		I-H	RGW	X		X	X	X	X	X		5 Bottles
1241p	2-4-13		I-U	RGW	X		X	X	X	X	X		5 Bottles
1245p	2-4-13		I-T	RGW	X		X	X	X	X	X		5 Bottles
1248p	2-4-13		I-G	RGW	X		X	X	X	X	X		5 Bottles
1252p	2-4-13		I-Q	RGW	X		X	X	X	X	X		5 Bottles
1256p	2-4-13		I-F	RGW	X		X	X	X	X	X		5 Bottles
100P	2-4-13		I-N	RGW	X		X	X	X	X	X		5 Bottles
104P	2-4-13		I-E	RGW	X		X	X	X	X	X		5 Bottles
109p	2-4-13		I-M	RGW	X		X	X	X	X	X		5 Bottles
112p	2-4-13		I-D	RGW	X		X	X	X	X	X		5 Bottles

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

RECEIVED BY: *Michele Brown*

PRINT NAME

-- Michele Brown

COMPANY/TITLE

Veolia Water for Nevada Environmental Response Trust

DATE

2-4-13

TIME

12:00PM

RELINQUISHED BY:

RECEIVED BY:

CHAIN OF CUSTODY RECORD

M/LABS USE ONLY:

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB:

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Nevada Environmental Response Trust
 PROJECT JOB # / P.O.#: Quaternary Groundwater Sampling
 Schedule B CWA-RCRA
 Sampler: Michele Brown
 Nevada Environmental Response Trust
 35 East Wacker Suite 1550
 Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COM	PH	TDS	SR	CLO4	Sterile CLO4	CRM	SAMPLER Comments
117p	2-4-13		I-C	RGW	X		X	X	X	X	X		5 Bottles
121p	2-4-13		I-S	RGW	X		X	X	X	X	X		5 Bottles
125p	2-4-13		I-L	RGW	X		X	X	X	X	X		5 Bottles
128p	2-4-13		I-R	RGW	X		X	X	X	X	X		5 Bottles
133p	2-4-13		I-B	RGW	X		X	X	X	X	X		5 Bottles
138p	2-4-13		I-AR	RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles

* MATRIX TYPES: Reported by Volume:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

RGW = Raw Ground Water
 RSW = Raw Surface Water

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY: Michele Brown SIGNATURE
 RECEIVED BY: _____ PRINT NAME
 Relinquished by: _____
 RECEIVED BY: _____
 COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust
 DATE: 2-4-13
 TIME: 12:00PM

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

M/LAB USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

Nevada Environmental Response Trust

Sampler Michele Brown

PROJECT JOB # / P.O.#

Quarantely Groundwater Sampling

Schedule B

CWA-RCRA

Nevada Environmental Response Trust

35 East Wacker Suite 1550

Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH	TDS	CR	CLO4	Sterile CLO4	CRVI	SAMPLER Comments
519a	2-4-13		PC-123	RGW	X		X	X	X	X	X		5 Bottles
543a	2-4-13		PC-128	RGW	X		X	X	X	X	X		5 Bottles
603a	2-4-13		PC-129	RGW	X		X	X	X	X	X		5 Bottles
622a	2-4-13		PC-130	RGW	X		X	X	X	X	X		5 Bottles
640a	2-4-13		PC-131	RGW	X		X	X	X	X	X		5 Bottles
704a	2-4-13		PC-132	RGW	X		X	X	X	X	X		5 Bottles
722a	2-4-13		PC-124	RGW	X		X	X	X	X	X		5 Bottles
742a	2-4-13		PC-125	RGW	X		X	X	X	X	X		5 Bottles
780a	2-4-13		PC-126	RGW	X		X	X	X	X	X		5 Bottles
811a	2-4-13		PC-127	RGW	X		X	X	X	X	X		5 Bottles
—	2-4-13		M-96	RGW	X		X	X	X	X	X		5 Bottles
902a	2-4-13		M-95	RGW	X		X	X	X	X	X		5 Bottles
													6 Bottles

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

Michele Brown

PRINT NAME

Michele Brown

COMPANY/TITLE

Veolia Water for Nevada Environmental Response Trust

DATE

2-4-13

TIME

12:00PM

REMOVED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 (626) 386-1100 (800) 566-5227

CHAIN OF CUSTODY RECORD

M/LABS USE ONLY: _____

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN _____ PARTIALLY FROZEN _____ THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Nevada Environmental Response Trust
 PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling
 Schedule B CWA-RCRA

SAMPLER: Michele Brown
 PROJECT LOCATION: Nevada Environmental Response Trust
 35 East Wacker Suite 1550
 Chicago, IL 60606

John Pekala 602-734-7710

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMB	PH	TDS	SR	CO ₂	Sterile CO ₂	CRVI	SAMPLER Comments
127a	2-4-13		PC-54	RGW	X		X	X	X	X	X		5 Bottles
946a	2-4-13		M-48A	RGW	X		X	X	X	X	X		5 Bottles
1086a	2-4-13		M-44	RGW	X		X	X	X	X	X		6 Bottles
1019a	2-4-13		PC-71	RGW	X		X	X	X	X	X		5 Bottles
1038a	2-4-13		PC-72	RGW	X		X	X	X	X	X		5 Bottles
1058a	2-4-13		PC-73	RGW	X		X	X	X	X	X		5 Bottles
1116a	2-4-13		PC-37	RGW	X		X	X	X	X	X		5 Bottles
1140a	2-4-13		M-23	RGW	X		X	X	X	X	X		5 Bottles
1040a	2-4-13		FB-1	RGW	X		X	X	X	X	X		5 Bottles
—	2-4-13		VD-3	RGW	X		X	X	X	X	X		6 Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles

Reported by Volume:

CFW = Chloroform/Inated Finished Water
 FW = Other Finished Water

Reported by Weight:

SO = Soil
 SL = Sludge

RGW = Raw Ground Water
 RSW = Raw Surface Water

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

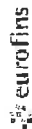
* MATRIX TYPES:

RELINQUISHED BY: _____ SIGNATURE: *Michele Brown* PRINT NAME: Michele Brown

RECEIVED BY: _____ DATE: 2-4-13 TIME: 12:00PM

RELINQUISHED BY: _____ COMPANY/TITLE: Vedia Water for Nevada Environmental Response Trust

RECEIVED BY: _____



750 Royal Oaks Dr. Suite 100
 Monrovia, CA 91016-3629
 (626) 386-1100 (800) 566-5227

U.S. Environmental Protection Agency
 Environmental Systems Center

CHAIN OF CUSTODY RECORD

M/LABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN _____ PARTIALLY FROZEN _____ THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME			PROJECT JOB # / P.O.#			REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		<input checked="" type="checkbox"/> (check for yes)
Nevada Environmental Response Trust Sampler Russell Speckin			CWA-RCRA Collection Wells Fields - Weekly - SO #12373			ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)		
John Fekala 602-434-7710			Nevada Environmental Response Trust 35 East Wacker Suite 1550 Chicago, IL 60606					

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	STerileCLO4	TDS	CP	SAMPLER COMMENTS
1052	2/4/13		ART-1	RSW	X		X	X	X	
1056	2/4/13		ART-2	RSW	X		X	X	X	
1100	2/4/13		ART-3	RSW	X		X	X	X	
1103	2/4/13		ART-4	RSW	X		X	X	X	
0851	2/4/13		ART-6	RSW	X		X	X	X	
1106	2/4/13		ART-7	RSW	X		X	X	X	
1111	2/4/13		ART-8	RSW	X		X	X	X	
0848	2/4/13		PC-99R2/R3	RSW	X		X	X	X	
0857	2/4/13		PC-115R	RSW*	X		X	X	X	
0859	2/4/13		PC-116R	RSW	X		X	X	X	

* MATRIX TYPES:
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

Reported by Volume:
 RGW = Raw Ground Water
 RSW = Raw Surface Water

Reported by Weight:
 SO = Soil
 SL = Sludge

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

RELINQUISHED BY:	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	Russell Speckin	Veolia Water for Nevada Environmental Response Trust	2/4/2013	1200pm
RELINQUISHED BY:				
RECEIVED BY:				

CHAIN OF CUSTODY RECORD

750 Royal Oaks Dr. Suite 100
 Monrovia, CA 91016-3629
 (826) 386-1100 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME
 Nevada Environmental Response Trust
 Sampler Signature: Russell Speckin

PROJECT JOB # / P.O.#
 CWA-RCRA
 Collection Wells Fields - Monthly - SO #12373

IDENTIFIER, STATE ID#
 Nevada Environmental Response Trust
 35 Wacker Suite 1550
 Chicago, IL - 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	STERILE FILTERED CLO4	SR	SAMPLER COMMENTS
0810	2/4/13		SF-1	RSW	X		X	X	
0824	2/4/13		PC-117	RSW	X		X	X	
0828	2/4/13		PC-118	RSW	X		X	X	
0832	2/4/13		PC-119	RSW	X		X	X	
0835	2/4/13		PC-120	RSW	X		X	X	
0839	2/4/13		PC-121	RSW	X		X	X	
0843	2/4/13		PC-133	RSW	X		X	X	
1110	2/4/13		ART-9	RSW	X		X	X	

* MATRIX TYPES:

Reported by Volume:
 CFW = Chlorinated Finished Water
 FW = Other Finished Water

Reported by Weight:
 SO = Soil
 SL = Sludge

RGW = Raw Ground Water
 RSW = Raw Surface Water
 CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

SIGNATURE

RELINQUISHED BY:	PRINT NAME Russell Speckin	COMPANY/TITLE Veolia Water for Nevada Environmental Response Trust	DATE 2/4/2013	TIME 12:00 PM
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				



Lab Services
6000 N. 10th Street
Phoenix, AZ 85018

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

M/LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

Nevada Environmental Response Trust
Sampler: Michele Brown

PROJECT JOB # / P.O.#
Quarterly Groundwater Sampling
Schedule B CWA-RCRA

Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	PH	TDS	CR	ClO4	Sterile ClO4	CRVI	SAMPLER Comments
715a	2-5-13		PC-135A	RGW	X		X	X	X	X	X		5 Bottles
645a	2-5-13		PC-136	RGW	X		X	X	X	X	X		5 Bottles
659a	2-5-13		PC-144	RGW	X		X	X	X	X	X		5 Bottles
750A	2-5-13		PC-148	RGW	X		X	X	X	X	X		5 Bottles
830A	2-5-13		PC-149	RGW	X		X	X	X	X	X		5 Bottles
928A	2-5-13		PC-150	RGW	X		X	X	X	X	X		5 Bottles
614A	2-5-13		M-64	RGW	X		X	X	X	X	X		5 Bottles
1010A	2-5-13		M-65	RGW	X		X	X	X	X	X		5 Bottles
1025A	2-5-13		M-66	RGW	X		X	X	X	X	X		5 Bottles
1045A	2-5-13		M-79	RGW	X		X	X	X	X	X		5 Bottles
1103A	2-5-13		M-69	RGW	X		X	X	X	X	X		5 Bottles
1116A	2-5-13		M-135	RGW	X		X	X	X	X	X		5 Bottles

Reported by Volume:

CFW = Chloroform/Inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

RELINQUISHED BY: *Michele Brown*

RECEIVED BY:

PRINT NAME

Michele Brown

COMPANY/TITLE

Veolia Water for Nevada Environmental Response Trust

DATE

2-5-13

TIME

12:00PM

RELINQUISHED BY:

RECEIVED BY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 (626) 386-1100 (800) 566-5227

CHAIN OF CUSTODY RECORD

HW/LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY/PROJECT NAME: Nevada Environmental Response Trust
 PROJECT JOB #/P.O.#: Quarterly Groundwater Sampling
 Schedule B CWA-PCRA
 Sampler: *Michelle Brown*
 Nevada Environmental Response Trust
 35 East Wacker Suite 1550
 Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMB	PF	TS	SR	CLO4	Stetite CLO4	CRV	SAMPLER Comments
1155A	2-5-13		M-131	RGW	X		X	X	X	X	X		5 Bottles
1150A	2-5-13		M-57A	RGW	X		X	X	X	X	X		5 Bottles
1205P	2-5-13		M-37	RGW	X		X	X	X	X	X	X	5 Bottles
1200P	2-5-13		M-25	RGW	X		X	X	X	X	X	X	5 Bottles
1050A	2-5-13		EB-1	RGW	X		X	X	X	X	X	X	5 Bottles
—	2-5-13		VD-1	RGW	X		X	X	X	X	X	X	5 Bottles
—	2-5-13		VD-2	RGW	X		X	X	X	X	X	X	5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles
				RGW	X		X	X	X	X	X		5 Bottles

* MATRIX TYPES:

Reported by Volume:
 CFW = Chloroform/finished Water
 FW = Other Finished Water

Reported by Weight:
 SO = Soil
 SL = Sludge

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

RELINQUISHED BY: *Michelle Brown* SIGNATURE
 RECEIVED BY: _____
 RELINQUISHED BY: _____
 RECEIVED BY: _____

PRINT NAME: Michele Brown
 COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust

DATE: 2-5-13
 TIME: 12:00PM

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN _____ PARTIALLY FROZEN _____ THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

Nevada Environmental Response Trust

Sampler: Michele Brown

PROJECT JOB # / P.O.#

Quarterly Groundwater Sampling

Schedule B CWA-RCRA

Nevada Environmental Response Trust
35 East Wacker Suite 1550
Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH	TDS	CR	CO ₂	Stetie CO ₂	CRM	SAMPLER Comments
922A	2-6-13		M-97	RGW	X		X	X	X	X	X		5 Bottles
724A	2-6-13		I-V	RGW	X		X	X	X	X	X		5 Bottles
706A	2-6-13		I-K	RGW	X		X	X	X	X	X		5 Bottles
713A	2-6-13		I-J	RGW	X		X	X	X	X	X		5 Bottles
718A	2-6-13		I-Z	RGW	X		X	X	X	X	X		5 Bottles
724A	2-6-13		I-I	RGW	X		X	X	X	X	X		5 Bottles
1025A	2-6-13		M-31A	RGW	X		X	X	X	X	X		5 Bottles
1042A	2-6-13		M-52	RGW	X		X	X	X	X	X		5 Bottles
623A	2-6-13		M-35	RGW	X		X	X	X	X	X		5 Bottles
634A	2-6-13		M-19	RGW	X		X	X	X	X	X		5 Bottles
656A	2-6-13		M-68	RGW	X		X	X	X	X	X		5 Bottles
747A	2-6-13		M-67	RGW	X		X	X	X	X	X		5 Bottles

* MATRIX TYPES:

Reported by Volume:

CFW = Chlorinated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:

SO = Soil
SL = Sludge

SIGNATURE

Michele Brown

PRINT NAME

Michele Brown

COMPANY/TITLE

Veolia Water for Nevada Environmental Response Trust

DATE

2-6-13

TIME

12:00PM

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:



Europe Analytical
6000 300 0000

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
(626) 386-1100 (800) 566-5227

CHAIN OF CUSTODY RECORD

MWLABS USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED/LOGGED IN BY: _____

SAMPLE TEMP, RECEIPT AT LAB: _____

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Nevada Environmental Response Trust
 PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling
 Schedule B CWA-RCRA
 Sampler: Michele Brown
 Nevada Environmental Response Trust
 35 East Wacker Suite 1550
 Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH	TDS	CR	ClO4	Sterile ClO4	CRVI	SAMPLER Comments
807A	2-6-13		M-14	RGW	X		X	X	X	X	X		5 Bottles
840A	2-6-13		M-13	RGW	X		X	X	X	X	X		5 Bottles
1103A	2-6-13		M-12A	RGW	X		X	X	X	X	X		6 Bottles
1148A	2-6-13		M-11	RGW	X		X	X	X	X	X		6 Bottles
108P	2-6-13		M-10	RGW	X		X	X	X	X	X		6 Bottles
---	2-6-13		VD-4	RGW	X		X	X	X	X	X		6 Bottles
1108A	2-6-13		EB-2	RGW	X		X	X	X	X	X		6 Bottles
135P	2-6-13		M-37	RGW	X		X	X	X	X	X		6 Bottles
				RGW	X		X	X	X	X	X		1 Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles

* MATRIX TYPES:

Reported by Volume:
CFW = Chloraminated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:

SO = Soil
SL = Sludge

RELINQUISHED BY: _____
 RECEIVED BY: Michele Brown
 SIGNATURE: _____
 PRINT NAME: Michele Brown
 COMPANY/TITLE: Vecilia Water for Nevada Environmental Response Trust
 DATE: 2-6-13
 TIME: 12:00PM



CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 (626) 386-1100 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS: _____
SAMPLES CHECKED/LOGGED IN BY: _____
SAMPLE TEMP, RECEIPT AT LAB: _____
BLUE ICE: FROZEN _____ PARTIALLY FROZEN _____ THAWED _____

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES							ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	
Nevada Environmental Response Trust		OWA-RCRA		Nevada Environmental Response Trust 35 East Wacker Suite 1550 Chicago, IL 60606								
Sampler Signature: <i>Michele Brown</i>		IDENTIFIER, STATE ID#		MATRIX *		GRAB		COMP		SAMPLER COMMENTS		
TIME	DATE	LOCATION										
1:08p	2/6/2013	M-10	RSW	X								

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

RGW = Raw Ground Water
 RSW = Raw Surface Water

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

Reported by Weight:
 SO = Soil
 SL = Sludge

SIGNATURE

RECEIVED BY: *Michele Brown*

RELINQUISHED BY:

PRINT NAME: Michele Brown

COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust

DATE: 2/6/2013

TIME: 12:00p



CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 (626) 386-1100 (800) 566-5227

HWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB:

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: Nevada Environmental Response Trust
 PROJECT JOB # / P.O.#: Quarterly Groundwater Sampling
 Schedule B CWA-RCRA
 Sampler: Michele Brown
 Nevada Environmental Response Trust
 35 East Wacker Suite 1550
 Chicago, IL 60606

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	SR#	COM#	PH	TDS	CR	ClO ₂	Stetite ClO ₄	CRVI	SAMPLER Comments
747a	2-7-13		M-83	RGW	X		X	X	X	X	X		Bottles
642a	2-7-13		M-80	RGW	X		X	X	X	X	X		Bottles
604a	2-7-13		M-81A	RGW	X		X	X	X	X	X		Bottles
808a	2-7-13		M-70	RGW	X		X	X	X	X	X		Bottles
818a	2-7-13		M-71	RGW	X		X	X	X	X	X		Bottles
909a	2-7-13		M-72	RGW	X		X	X	X	X	X		Bottles
921a	2-7-13		M-22A	RGW	X		X	X	X	X	X		Bottles
943a	2-7-13		M-14A	RGW	X		X	X	X	X	X		Bottles
1023a	2-7-13		M-36	RGW	X		X	X	X	X	X		Bottles
1023a	2-7-13		M-38	RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles
				RGW	X		X	X	X	X	X		Bottles

* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

RGW = Raw Ground Water
 RSW = Raw Surface Water

CWW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

Reported by Weight:
 SO = Soil
 SL = Sludge

SIGNATURE: *Michele Brown* PRINT NAME: Michele Brown
 RELINQUISHED BY: RECEIVED BY: RECEIVED BY: RECEIVED BY:
 COMPANY/TITLE: Veolia Water for Nevada Environmental Response Trust
 DATE: 2-7-13 TIME: 12:00PM

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Environ International Corp.

Rita S. Sprinkle is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 58924
Created By: AutoGenerated
Order Date: 12/03/2012
Ship By: 11/18/2012
STG: Bottle Orders

Client ID: ENVIRON-NVTRUST
Project Code: CWA-RCRA Bottle Orders
Group Name: M-10 Quarterly
PO#/JOB#:

Ship Sample Kits to
Veolia Water-Trinox LLC
510 Fourth Street
Henderson, NV 89015

Attn: Wendy Prescott
Phone: 702-371-9307

Send Report to
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

Billing Address
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

# of	Samples Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
1	Ammonia Nitrogen	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
1	Boron Total ICAP, Chromium Total ICAP, Iron Total ICAP, Manganese Total ICAP	1 250ml acid rinsed 1ml HNO3 (18%)	UN2031
1	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Total Inorganic Nitrogen-Calc	1 125ml poly no preservative	
1	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

M-10 Quarterly Sampling - No blue ice needed

Kit Order for Environ International Corp.

Rita S. Sprinkle is your Eurofins Eaton Analytical Project Manager

formerly known as

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 61631
Created AutoGenerated
By: 02/01/2013
Order Date: 01/17/2013
Ship By: Bottle Orders
STG:

Client ID: ENVIRON-NVTRUST
Project Code: CWA-RCRA Bottle Orders
Group Name: Monthly ART/PC Wells
PO#/JOB#:

Ship Sample Kits to
Veolia Water-Tironox LLC
510 Fourth Street
Henderson, NV 89015
Attn: Wendy Prescott
Phone: 702-371-9307

Sand Report to
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

Billing Address
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if an	UN DOT #
20	Chromium Total ICAP RCRA	1 250ml acid rinsed 1ml HNO3 (18%)	UN2031
20	Perchlorate Sterile Filtered	1 125 ml poly + syringe, filter 125ml STERILE bottle	
20	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

Monthly ART and PC wells - DO NOT PRELABEL BOTTLES

Code Status Date Shipped Via Tracking # # of Coolers Prepared By



Kit Order for Environ International Corp.

Rita S. Sprinkle is your Eurofins Eaton Analytical Project Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit #: 61879
Created: AutoGenerated
By: 02/04/2013
Order Date: 01/20/2013
Ship By: Bottle Orders
STG:

Client ID: ENVIRON-NVTRUST
Project Code: CWA-RCRA Bottle Orders
Group Name: Every 3 months - FirstMonday
PO#/JOB#:

Note: Sampler Please return this paper with your samples

Ship Sample Kits to
Veolia Water-Tronox LLC
510 Fourth Street
Henderson, NV 89015

Attn: Wendy Prescott
Phone: 702-371-9307

Send Report to
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

Billing Address
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

UN DOT #
UN2031

Bottles - Qty for each sample, type & preservative if an

- 1 250ml acid rinsed 1ml HNO3 (18%)
- 1 125ml poly acid rinsed no preservative
- 1 125 ml poly + syringe, filler 125ml STERILE bottle
- 1 125ml poly no preservative
- 1 500ml poly TDS - no preservative

# of Sample	Tests
101	Chromium Total ICAP RCRA
15	CRVI 7196
101	Perchlorate Sterile Filtered
101	PH by EPA 9040
101	Total Dissolved Solid (TDS)

Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht

Prepared By

of Coolers

Tracking #

Via

Date Shipped

Static



formerly

Kit Order for EnviroN International Corp.
Rita S. Sprinkle is your Eurofins Eaton Analytical Project Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit #: 61879
Created: AutoGenerated
By: 02/04/2013
Order Date: 01/20/2013
Ship By: Bottle Orders
STG:

Note: Sampler Please return this paper with your samples

Client ID: ENVIRON-NVTRUST
Project Code: CWA-RCRA Bottle Orders
Group Name: Every 3 months - First Monday
PO#/JOB#:

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UN DOT #
UN2031

Bottles - Qty for each sample, type & preservative if an

# of Sample	Tests	UN DOT #
101	Chromium Total ICAP RCRA	UN2031
15	CRVI 7196	
101	Perchlorate Sterile Filtered	
101	PH by EPA 9040	
101	Total Dissolved Solid (TDS)	

Comments

QUARTERLY SAMPLING - PLEASE PUT LABELS ON BOTTLES; PLEASE PUT IN 4 COOLERS SINCE SAMPLING TAKES 3-4 DAYS NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht

Date Shipped
Via
Tracking #
of Coolers
Prepared By



Groundwater Field Log

This Section Contains:

- Water Sampling Field Logs

Water Sampling Field Log

Well No.: ARR-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear no wind

Well Information:

Total Well Depth: 41.2 feet Time: 153p

Depth to Water: - 24.22 feet

Water Column (L):	<u>19.98</u> feet	X	Well Diameter (circle one)			= <u>10 gals</u>
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>155p</u>	<u>10 gals</u>	<u>21.7°C</u>	<u>clear</u>

Comments:

Sample Collection Time - 203p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: AR4-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer ○

Weather Conditions: clear

Well Information:

Total Well Depth: 54.0 feet Time: 109 f

Depth to Water: - 25.83 feet

Water Column (L):	<u>28.17</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			2-in.	4-in.	6-in		
			0.4893	1.9	4.41		<u>14 gals</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>111p</u>	<u>14 gals</u>	<u>24.5°</u>	<u>clear</u>

Comments:

Sample Collection Time - 120 p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ARP-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: 53°

Well Information:

Total Well Depth: 41.0 feet Time: 1257p

Depth to Water: - 27.24 feet

Water Column (L): 13.76 feet X 0.4893 = 7gals

Well Diameter (circle one)

2-in. 4-in. 6-in
0.4893 1.9 4.41

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>100p</u>		<u>24.1°c</u>	<u>clear</u>

Comments:

Sample Collection Time - 105p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: AR24-41A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: Nice 54°

Well Information:

Total Well Depth: 33.0 feet Time: 1230p

Depth to Water: - 29.20 feet

Water Column (L):	<u>3.8</u> feet	X	Well Diameter (circle one)			=	<u>3 gals</u>
			<u>2-in.</u>	4-in.	6-in		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1233p</u>	<u>3 gals</u>	<u>24.3°</u>	<u>clear</u>

Comments:

Sample Collection Time - 1237p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ARP-5A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13-FEB 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: clear 52°

Well Information:

Total Well Depth: 38.0 feet Time: 1220

Depth to Water: - 32.68 feet

Water Column (L):	<u>5.32</u> feet	X	Well Diameter (circle one)			=	<u>3 gals</u>
			<u>2-in.</u>	4-in.	6-in		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1223</u>	<u>3 gals</u>	<u>24.1°</u>	<u>clear</u>

Comments:

Sample Collection Time - 1226

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles - 4

Water Sampling Field Log

Well No.: ART-6B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 FEB 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: clear 53°

Well Information:

Total Well Depth: 43.0 feet Time: 1200p

Depth to Water: - 32.20 feet

Water Column (L):	<u>10.8</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>0.4893</u>	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1202p</u>	<u>5 gal</u>	<u>23.4°</u>	<u>clear</u>

Comments:

Sample Collection Time - 1206p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ARP-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 FEB 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: Clear

Well Information:

Total Well Depth: 39.2 feet Time: 1138A

Depth to Water: - 30.16 feet

Water Column (L):	<u>9.04</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in		
			<u>0.4893</u>	1.9	4.41		<u>4 gals</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1140A</u>	<u>4 gals</u>	<u>23.9°c</u>	<u>Clear</u>

Comments:

Sample Collection Time - 1145A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: No wind

Well Information:

Total Well Depth: 56.0 feet Time: 1019A

Depth to Water: - 25.60 feet

			Well Diameter (circle one)			Purge
			2-in.	4-in.	6-in	Volume
Water Column (L):	<u>30.4</u> feet	X	0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments:

Pumping

Sample Collection Time - 1052A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-1A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04-Feb-13

Sampling Method: Sample Port O Disposable Bailer O

Weather Conditions: clear

Well Information:

Total Well Depth: 56.0 feet Time: 1021a

Depth to Water: - 24.18 feet

Water Column (L):	<u>31.82</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments: DTW ONLY

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: 55°

Well Information:

Total Well Depth: 56.0 feet Time: 1024A

Depth to Water: - 27.80 feet

Well Diameter (circle one)

Purge Volume

Water Column (L): 28.2 feet X

2-in.	4-in.	6-in
0.4893	1.9	4.41

 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments:

PUMPING

Sample Collection Time - 1056A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump O Disposable Bailer O

Weather Conditions: Nice

Well Information:

Total Well Depth: 58.0 feet Time: 1026A

Depth to Water: - 26.73 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 31.27 feet X 0.4893 1.9 4.41 = _____

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments: DTW only

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 Feb 13

Sampling Method: Electric Pump O Disposable Bailer O

Weather Conditions: No wind

Well Information:

Total Well Depth: 47.0 feet Time: 1033A

Depth to Water: - 30.88 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 16.12 feet X 0.4893 1.9 4.41 = _____

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments: DTW only

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE port

Weather Conditions: CLEAR - W/ZE

Well Information:

Total Well Depth: 55.0 feet Time: 1:034 A

Depth to Water: - 36.81 feet

Well Diameter (circle one)

Purge Volume

Water Column (L): 18.19 feet X 2-in. 0.4893 4-in. 1.9 6-in. 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments:

Pumping

Sample Collection Time - 1100A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump O Disposable Bailer O

Weather Conditions: clear

Well Information:

Total Well Depth: 46.0 feet Time: 1038A

Depth to Water: - 28.15 feet

			Well Diameter (circle one)			
			2-in.	4-in.	6-in	
Water Column (L):	<u>17.85</u> feet	X	0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments: D.T.W. Only

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-41A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE PORT

Weather Conditions: NICE CLEAR

Well Information:

Total Well Depth: 46.0 feet Time: 1041A

Depth to Water: - 42.96 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 3.04 feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments: PUMPING

Sample Collection Time - 1103A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-16

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04-Feb-13

Sampling Method: Sample Port Disposable Bailer

Weather Conditions: No wind

Well Information:

Total Well Depth: 36.0 feet

Time: 951a

Depth to Water: - 32.79 feet

Well Diameter (circle one)

Purge Volume

			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>	
Water Column (L):	<u>321</u> feet	X	0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments:

Sample Collection Time - 951a

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump O Disposable Bailer O

Weather Conditions: clear

Well Information:

Total Well Depth: 38.9 feet

Time: 1007A

Depth to Water: - 33.78 feet

Well Diameter (circle one)

Purge Volume

2-in. 4-in. 6-in

Water Column (L): 5.12 feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments: DTW ONLY

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-7A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: 55°

Well Information:

Total Well Depth: 40.0 feet Time: 1005 A

Depth to Water: - 33.85 feet

Water Column (L):	<u>6.15</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in.	4-in.	6-in	
			0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments: pumping

Sample Collection Time - 1106A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-7B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: NICE NO WIND

Well Information: _____

Total Well Depth: 50.0 feet Time: 1012A

Depth to Water: - 35.10 feet

Water Column (L):	<u>14.9</u> feet	X	Well Diameter (circle one)			= <u>66</u> gals
			2-in. 0.4893	4-in. 1.9	6-in. 4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1014A</u>	<u>66 gals</u>	<u>73.9°</u>	<u>clear</u>

Comments:

Sample Collection Time - 10418A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-8

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample Port

Weather Conditions: NICE - CLEAR

Well Information:

Total Well Depth: 50.5 feet Time: 1029A

Depth to Water: - 32.78 feet

Well Diameter (circle one)

Purge Volume

Water Column (L): 17.72 feet X

2-in.	4-in.	6-in
0.4893	1.9	4.41

 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments:

Pumping

Sample Collection Time - 1115A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-8A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: No wind

Well Information:

Total Well Depth: 54.0 feet Time: 1030A

Depth to Water: - 27.9 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 26.1 feet X 0.4893 1.9 4.41 = _____

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments:

D.T.W. ONLY

Sample Collection Time - _____

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: ART-9

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE PORT

Weather Conditions: 54°

Well Information:

Total Well Depth: 43.0 feet Time: 1000A

Depth to Water: - 37.93 feet

Well Diameter (circle one)

Purge Volume

Water Column (L): 5.07 feet X

2-in.	4-in.	6-in
0.4893	1.9	4.41

 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	_____
_____	_____	_____	_____

Comments:

Pumping

Sample Collection Time - 1110A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: M-10

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Breezy, sunny, warm

Well Information:

Total Well Depth: 69.43 feet Time: 1204p

Depth to Water: 46.92 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>22.53</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>33.11</u> gal.	* 3 = <u>99</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1212p</u>	---	---	---	---	
<u>1229p</u>	<u>33 gal</u>	<u>7.26</u>	<u>3.51 mS/cm</u>	<u>23.4 °C</u>	<u>slightly rusty color</u>
<u>1241p</u>	<u>33 gal</u>	<u>6.98</u>	<u>3.55 mS/cm</u>	<u>25.4 °C</u>	<u>same</u>
<u>105p</u>	<u>33 gal</u>	<u>6.92</u>	<u>3.51 mS/cm</u>	<u>25.0 °C</u>	<u>Very slight color</u>
	gal				
	gal				
	gal				

Sample Appearance: Very slight rust color

Sample Collection - Time Start: 108p Time Finished: 108p

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: Xtra cooler collected here 108p 4btl Dup EC 3.52 EC 25.1 °C temp TOTAL BOTTLES: 6

Water Sampling Field Log

Well No.: M-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: breezy, sunny, warm

Well Information:

Total Well Depth: 58.00 feet Time: 1116A

Depth to Water: 42.02 feet

	<u>Well Diameter (circle one)</u>	Well	Purge	Purge
	<small>2-in. 4-in. 6-in.</small>	Volume (WV)	Factor	Volume
Height of Water Column (L): <u>15.98</u> feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>23.49</u> gal.	* <u>3</u>	= <u>70</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1121A</u>	---	---	---	---	
<u>1128A</u>	<u>24 gal</u>	<u>8.01</u>	<u>3.37 mS/cm</u>	<u>22.9 °C</u>	<u>clear</u>
<u>1135A</u>	<u>48 gal</u>	<u>7.94</u>	<u>3.42 mS/cm</u>	<u>24.3 °C</u>	<u>clear</u>
<u>1145A</u>	<u>70 gal</u>	<u>7.91</u>	<u>3.34 mS/cm</u>	<u>24.0 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1148A Time Finished: 1148A

Analyses: <u>CLO4 / CR / TDS / pH</u>	<u>pH / CLO4 / CR6 / TDS / CR</u>	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

VD-4 taken here
6 bottles

TOTAL BOTTLES: 6

Comments:

Water Sampling Field Log

Well No.: M-12A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: breezy, sunny

Well Information:

Total Well Depth: 50.00 feet Time: 1052A
 Depth to Water: 39.63 feet
 Height of Water Column (L): 10.37 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.65 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1054a</u>	---	---	---	---	
<u>1057a</u>	<u>2</u> gal	<u>8.0</u>	<u>7.59 mS/cm</u>	<u>22.5 °C</u>	<u>yellow</u>
<u>1058a</u>	<u>4</u> gal	<u>7.98</u>	<u>7.67 mS/cm</u>	<u>23.1 °C</u>	<u>yellow</u>
<u>1100A</u>	<u>5</u> gal	<u>7.97</u>	<u>7.69 mS/cm</u>	<u>23.3 °C</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 1103A Time Finished: 1103A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / GR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 6

Comments: EB-2 collected here before moving to next well 6 bottles 1108A

Water Sampling Field Log

Well No.: M-14A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 42.40 feet Time: 9:36a

Depth to Water: 31.40 feet

Height of Water Column (L): 11.00 feet * 2-in. 0.16 gal/ft * 4-in. 0.65 gal/ft * 6-in. 1.47 gal/ft = 1.76 gal. * 3 = 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>9:37a</u>	---	---	---	---	
<u>9:39a</u>	<u>2 gal</u>	<u>7.39</u>	<u>4.54 mS/cm</u>	<u>22.2 °C</u>	<u>clear</u>
<u>9:40a</u>	<u>4 gal</u>	<u>7.39</u>	<u>4.71 mS/cm</u>	<u>23.2 °C</u>	<u>clear</u>
<u>9:41a</u>	<u>5 gal</u>	<u>7.39</u>	<u>4.77 mS/cm</u>	<u>23.4 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 9:43a Time Finished: 9:43a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Dup EC 4.78 EC 23.0 Temp

Water Sampling Field Log

Well No.: M-19

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 41.20 feet Time: 6:30A

Depth to Water: 33.89 feet

Height of Water Column (L): 7.31 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.16</u> gal.	* <u>3</u>	= <u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:39A</u>	---	---	---	---	---
<u>6:35A</u>	<u>2</u> gal	<u>7.23</u>	<u>6.29</u> mS/cm	<u>21.4</u> °C	<u>clear</u>
<u>6:36A</u>	<u>3</u> gal	<u>7.26</u>	<u>6.41</u> mS/cm	<u>22.3</u> °C	<u>clear</u>
<u>6:37A</u>	<u>4</u> gal	<u>7.25</u>	<u>6.44</u> mS/cm	<u>22.7</u> °C	<u>clear</u>
---	gal	---	---	---	---
---	gal	---	---	---	---
---	gal	---	---	---	---

Sample Appearance: clear

Sample Collection - Time Start: 6:39A Time Finished: 6:39A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-22A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 36.92 feet Time: 9:19a

Depth to Water: 29.24 feet

Height of Water Column (L): 7.68 feet

Well Diameter (circle one)			Well Volume (VV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			

$0.16 \text{ gal/ft} \cdot 0.65 \text{ gal/ft} \cdot 1.47 \text{ gal/ft} = 1.22 \text{ gal} \cdot 3 = 4 \text{ gal}$

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>921a</u>	---	---	---	---	
<u>923a</u>	<u>2 gal</u>	<u>7.19</u>	<u>12.91 mS/cm</u>	<u>21.9 °C</u>	<u>yellow</u>
<u>924a</u>	<u>3 gal</u>	<u>7.15</u>	<u>13.54 mS/cm</u>	<u>23.2 °C</u>	<u>yellow</u>
<u>925a</u>	<u>4 gal</u>	<u>7.14</u>	<u>13.76 mS/cm</u>	<u>23.4 °C</u>	<u>yellow</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: yellow

Sample Collection - Time Start: 927a Time Finished: 927a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-23

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 44.47 feet Time: 1131A

Depth to Water: 32.83 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>11.64</u> feet	*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>1.86</u> gal.	* <u>3</u> = <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1133a</u>	---	---	---	---	
<u>1134a</u>	<u>2 gal</u>	<u>7.36</u>	<u>5.67 mS/cm</u>	<u>23.1 °C</u>	<u>Clear</u>
<u>1137a</u>	<u>4 gal</u>	<u>7.30</u>	<u>5.66 mS/cm</u>	<u>23.4 °C</u>	<u>Clear</u>
<u>1138a</u>	<u>6 gal</u>	<u>7.28</u>	<u>5.68 mS/cm</u>	<u>23.7 °C</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1140a Time Finished: 1140a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: Dup EC
5.72 mS/cm
EC 23.6 °C
temp

Water Sampling Field Log

Well No.: M-25

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 41.47 feet Time: 1213p

Depth to Water: 31.12 feet

Height of Water Column (L): 10.35 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.65 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1214p</u>	---	---	---	---	
<u>1216p</u>	<u>2 gal</u>	<u>7.16</u>	<u>9.40 mS/cm</u>	<u>23.1 °C</u>	<u>light yellow</u>
<u>1217p</u>	<u>4 gal</u>	<u>7.17</u>	<u>9.88 mS/cm</u>	<u>24.1 °C</u>	<u>light yellow</u>
<u>1218p</u>	<u>5 gal</u>	<u>7.20</u>	<u>9.92 mS/cm</u>	<u>24.3 °C</u>	<u>light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 1220p Time Finished: 1220p

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-31A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: breezy sunny warm

Well Information:

Total Well Depth: 55.00 feet Time: 105A

Depth to Water: 42.68 feet

Height of Water Column (L): 12.32 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.97 gal. * 3 = legal

Well Diameter (circle one)
2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume
= 1.97 gal. * 3 = legal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1017A</u>	---	---	---	---	
<u>1019A</u>	<u>2 gal</u>	<u>7.68</u>	<u>2.15 mS/cm</u>	<u>22.1 °C</u>	<u>clear</u>
<u>1021A</u>	<u>4 gal</u>	<u>7.56</u>	<u>2.10 mS/cm</u>	<u>22.8 °C</u>	<u>clear</u>
<u>1022A</u>	<u>6 gal</u>	<u>7.53</u>	<u>2.26 mS/cm</u>	<u>22.7 °C</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 1025A Time Finished: 1025A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-35

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 42.33 feet Time: 6:11 A

Depth to Water: 30.89 feet

Height of Water Column (L): 11.44 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.83 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:15 A</u>	---	---	---	---	
<u>6:18 A</u>	<u>2 gal</u>	<u>6.85</u>	<u>4.49 mS/cm</u>	<u>22.9 °C</u>	<u>clear</u>
<u>6:20 A</u>	<u>4 gal</u>	<u>7.06</u>	<u>4.84 mS/cm</u>	<u>23.6 °C</u>	<u>clear</u>
<u>6:21 A</u>	<u>5 gal</u>	<u>7.11</u>	<u>5.00 mS/cm</u>	<u>23.7 °C</u>	<u>clear</u>
<u>6:22 A</u>	<u>6 gal</u>	<u>7.19</u>	<u>5.11 mS/cm</u>	<u>23.8 °C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear w/ slight yellow tint

Sample Collection - Time Start: 6:23 A Time Finished: 6:23 A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-36

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump 0 Dedicated Bailer 0 Non Dedicated Bailer 0 Ready Flo 2" 0

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.85 feet Time: 958a

Depth to Water: 31.02 feet

	Well Diameter (circle one)			
	2-in. 4-in. 6-in.	Well	Purge	Purge
Height of Water Column (L): <u>6.83</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>gal.</u> * <u>3</u> = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1012a</u>	---	---	---	---	
<u>1015a</u>	<u>1</u> gal	<u>6.98</u>	<u>17.08 mS/cm</u>	<u>24.9</u> °C	<u>yellow</u>
<u>1019a</u>	<u>2</u> gal	<u>6.99</u>	<u>17.11 mS/cm</u>	<u>24.3</u> °C	<u>yellow</u>
<u>1022a</u>	<u>3</u> gal	<u>7.0</u>	<u>17.15 mS/cm</u>	<u>24.4</u> °C	<u>yellow</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: yellow

Sample Collection - Time Start: 1025a Time Finished: 1025a

Analyses: <u>CLO4 / CR / TDS / pH</u>	<u>pH / CLO4 / CR6 / TDS / CR</u>	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 6

Comments:

Water Sampling Field Log

Well No.: M-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.18 feet Time: 1157A

Depth to Water: 30.27 feet

Height of Water Column (L): 6.91 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.10</u> gal.	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1159A</u>	---	---	---	---	
<u>1201p</u>	<u>1 gal</u>	<u>7.0</u>	<u>8.29 mS/cm</u>	<u>23.4°</u>	<u>clear</u>
<u>1202p</u>	<u>2 gal</u>	<u>6.89</u>	<u>8.31 mS/cm</u>	<u>24.6°</u>	<u>clear</u>
<u>1203p</u>	<u>3 gal</u>	<u>6.89</u>	<u>8.52 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: CRVI re-sample only 2-6-13 125p. original sample PHT coolers did not get shipped TOTAL BOTTLES: 6

Water Sampling Field Log

Well No.: M-38

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump O Dedicated Bailer Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, clear

Well Information:

Total Well Depth: 36.82 feet Time: 1001a

Depth to Water: 30.14 feet

Height of Water Column (L): 6.68 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal * 3 =

Well Diameter (circle one)
2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1009</u>	---	---	---	---	
<u>1012</u>	<u>1 gal</u>	<u>7.18</u>	<u>14.2ms/cm</u>	<u>24.9^{oc}</u>	<u>yellow</u>
<u>1017</u>	<u>2 gal</u>	<u>7.12</u>	<u>14.13ms/cm</u>	<u>23.7^{oc}</u>	<u>yellow</u>
<u>1021</u>	<u>3 gal</u>	<u>7.08</u>	<u>14.19ms/cm</u>	<u>23.7^{oc}</u>	<u>yellow</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: yellow

Sample Collection - Time Start: 1023a Time Finished: 1023a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-44

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, clear, sunny

Well Information:

Total Well Depth: 37.65 feet Time: 957a

Depth to Water: 23.26 feet

	<p>Well Diameter (circle one)</p> <p><input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.</p>	Well Volume (VV)	Purge Factor	Purge Volume
Height of Water Column (L): <u>14.39</u> feet	<p>0.16 gal/ft 0.65 gal/ft * 1.47 gal/ft</p>	= <u>2.3</u> gal.	* <u>3</u>	= <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>959a</u>	---	---	---	---	
<u>1001a</u>	<u>3</u> gal	<u>7.44</u>	<u>10.09 mS/cm</u>	<u>23.2 °C</u>	<u>clear</u>
<u>1003a</u>	<u>5</u> gal	<u>7.39</u>	<u>10.37 mS/cm</u>	<u>23.9 °C</u>	<u>clear</u>
<u>1004a</u>	<u>7</u> gal	<u>7.36</u>	<u>9.46 mS/cm</u>	<u>24.0 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1001a Time Finished: 1001a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / <u>CLO4 / CR6 / TDS / CR</u>	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 6

Comments:

Water Sampling Field Log

Well No.: M-48A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, clear, sunny

Well Information:

Total Well Depth: 40.0 feet Time: 937a

Depth to Water: 28.42 feet

	Well Diameter (circle one)		Well Volume (WV)	Purge Factor	Purge Volume
	2-in. <input checked="" type="radio"/> 4-in. <input type="radio"/> 6-in. <input type="radio"/>				
Height of Water Column (L): <u>11.58</u> feet	0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft		= <u>1.85</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>939a</u>	---	---	---	---	
<u>942a</u>	<u>2 gal</u>	<u>7.58</u>	<u>3.80 mS/cm</u>	<u>23.9 °C</u>	<u>clear</u>
<u>943a</u>	<u>4 gal</u>	<u>7.41</u>	<u>3.70 mS/cm</u>	<u>24.6 °C</u>	<u>clear</u>
<u>944a</u>	<u>6 gal</u>	<u>7.39</u>	<u>3.63 mS/cm</u>	<u>24.7 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 946a Time Finished: 946a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-520

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Breezy, warm, clear

Well Information:

Total Well Depth: 47.38 feet Time: 1032A

Depth to Water: 39.55 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>7.83</u> feet	<input checked="" type="radio"/> 0.16 gal/ft	<input type="radio"/> 0.65 gal/ft	<input type="radio"/> 1.47 gal/ft	= <u>1.25</u> gal. * <u>3</u>	= <u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1034A</u>	---	---	---	---	
<u>1036A</u>	<u>2 gal</u>	<u>7.42</u>	<u>6.69 mS/cm</u>	<u>22.5 °C</u>	<u>clear</u>
<u>1037A</u>	<u>3 gal</u>	<u>7.44</u>	<u>6.47 mS/cm</u>	<u>22.7 °C</u>	<u>clear</u>
<u>1040A</u>	<u>4 gal</u>	<u>7.48</u>	<u>6.44 mS/cm</u>	<u>22.9 °C</u>	<u>cloudy</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1043A Time Finished: 1043A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 45.00 feet Time: 122p

Depth to Water: 26.47 feet

Height of Water Column (L): 18.53 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in			=	gal.	* 3 =
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft					

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 40.00 feet Time: 13:00

Depth to Water: 27.43 feet

	Well Diameter (circle one)			
	2-in. 4-in. 6-in.	Well	Purge	Purge
Height of Water Column (L): <u>12.57</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3</u> gal. * <u>3</u> = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-57A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 42.40 feet Time: 1141A

Depth to Water: 28.64 feet

Height of Water, Column (L): 13.76 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	=	=
	<u>2.20</u> gal.	* <u>3</u>	= <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1143a</u>	---	---	---	---	
<u>1145a</u>	<u>3</u> gal	<u>7.58</u>	<u>4.11 mscm</u>	<u>23.4</u> °C	<u>clear</u>
<u>1147a</u>	<u>5</u> gal	<u>7.57</u>	<u>4.04 mscm</u>	<u>24.3</u> °C	<u>clear</u>
<u>1148a</u>	<u>7</u> gal	<u>7.57</u>	<u>4.10 mscm</u>	<u>24.3</u> °C	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: Dup EC 4.08 EC 24.4 Temp

Water Sampling Field Log

Well No.: M-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 45.00 feet Time: 200p

Depth to Water: 29.61 feet

Height of Water Column (L):	<u>15.39</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
		2-in.	4-in.	6-in.			
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal.	* <u>3</u> =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-2e0

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 43.00 feet Time: 143p

Depth to Water: 28.90 feet

Height of Water Column (L): 14.10 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-24

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 38.00 feet Time: 5:44

Depth to Water: 26.45 feet

	Well Diameter (circle one)			
	2-in. 4-in. 6-in.	Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): <u>11.55</u> feet	<u>2-in.</u>	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft
	= <u>1.84</u> gal. * <u>3</u> = <u>6 gal</u>			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>5:44</u>	---	---	---	---	---
<u>5:29A</u>	<u>2</u> gal	<u>6.67</u>	<u>6.97 mS/cm</u>	<u>16.5 °C</u>	<u>very slight yellow</u>
<u>5:45A</u>	<u>4</u> gal	<u>7.19</u>	<u>8.10 mS/cm</u>	<u>18.2 °C</u>	<u>very slight yellow</u>
<u>5:57A</u>	<u>6</u> gal	<u>7.32</u>	<u>8.53 mS/cm</u>	<u>17.9 °C</u>	<u>Very slight yellow</u>
<u>6:08A</u>	<u>7</u> gal	<u>7.36</u>	<u>8.44 mS/cm</u>	<u>18.0 °C</u>	<u>very slight yellow</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: very slightly yellow

Sample Collection - Time Start: 6:14A Time Finished: 6:44A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: well purges dry TOTAL BOTTLES: 5

Water Sampling Field Log

Well No.: M-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 40.00 feet Time: 1000A

Depth to Water: 28.64 feet

Height of Water Column (L): 11.36 feet * 2-in. * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. = 1.81 gal. * 3 = 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1002A</u>	---	---	---	---	
<u>1005A</u>	<u>2 gal</u>	<u>7.17</u>	<u>11.35 mS/cm</u>	<u>23.3 °C</u>	<u>yellow</u>
<u>1006A</u>	<u>4 gal</u>	<u>7.10</u>	<u>14.40 mS/cm</u>	<u>24.0 °C</u>	<u>yellow</u>
<u>1007A</u>	<u>5 gal</u>	<u>7.11</u>	<u>14.35 mS/cm</u>	<u>24.3 °C</u>	<u>yellow</u>
<u>1008A</u>	<u>6 gal</u>	<u>7.12</u>	<u>14.45 mS/cm</u>	<u>24.4 °C</u>	<u>yellow</u>
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: yellow

Sample Collection - Time Start: 1010A Time Finished: 1010A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-66

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, clear, sunny

Well Information:

Total Well Depth: 43.00 feet Time: 1016A

Depth to Water: 30.15 feet

Height of Water Column (L): 12.85 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.05 gal. * 3 = 6 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1018A</u>	---	---	---	---	
<u>1020A</u>	<u>2</u> gal	<u>7.07</u>	<u>15.26 mS/cm</u>	<u>23.6</u> °C	<u>yellow</u>
<u>1021A</u>	<u>4</u> gal	<u>6.97</u>	<u>15.34 mS/cm</u>	<u>24.4</u> °C	<u>yellow</u>
<u>1022A</u>	<u>6</u> gal	<u>6.96</u>	<u>15.48 mS/cm</u>	<u>24.4</u> °C	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 1025A Time Finished: 10254

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: VD-2 taken here
5 bottles

Water Sampling Field Log

Well No.: M-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warming, sunny, clear

Well Information:

Total Well Depth: 38.00 feet Time: 1137A

Depth to Water: 20.97 feet

	Well Diameter (circle one)		Well	Purge	Purge
Height of Water Column (L): <u>17.03</u> feet	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft	Volume (WV)	Factor	Volume
		* 0.65 gal/ft	= <u>2.72</u> gal.	* <u>3</u>	= <u>8 gal</u>
		* 1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>740A</u>	---	---	---	---	
<u>742A</u>	<u>3</u> gal	<u>7.32</u>	<u>6.55 mS/cm</u>	<u>22.5 °C</u>	<u>slightly yellow</u>
<u>744A</u>	<u>6</u> gal	<u>7.25</u>	<u>6.53 mS/cm</u>	<u>23.7 °C</u>	<u>slightly yellow</u>
<u>745A</u>	<u>8</u> gal	<u>7.20</u>	<u>6.52 mS/cm</u>	<u>24.3 °C</u>	<u>slightly yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: slightly yellow

Sample Collection Time Start: 747A Time Finished: 747A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 41.00 feet Time: 649A

Depth to Water: 25.57 feet

Height of Water Column (L):	<u>15.43</u> feet	Well Diameter (circle one)			Well Volume (VV)	Purge Factor	Purge Volume
		2-in.	4-in.	6-in.			
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.46</u> gal.	* <u>3</u>	= <u>7</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>650A</u>	---	---	---	---	
<u>652A</u>	<u>3</u> gal	<u>7.18</u>	<u>6.64</u> mS/cm	<u>22.2</u> °C	<u>clear</u>
<u>653A</u>	<u>5</u> gal	<u>7.19</u>	<u>6.71</u> mS/cm	<u>22.4</u> °C	<u>clear</u>
<u>654A</u>	<u>7</u> gal	<u>7.21</u>	<u>6.83</u> mS/cm	<u>23.0</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 656A Time Finished: 656A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5</u> Bottles	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-69

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 40.00 feet Time: 1056A

Depth to Water: 31.48 feet

Height of Water Column (L): 8.52 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.36 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1057A</u>	---	---	---	---	
<u>1059A</u>	<u>2 gal</u>	<u>7.31</u>	<u>5.02 mS/cm</u>	<u>23.2 °C</u>	<u>clear</u>
<u>1100A</u>	<u>3 gal</u>	<u>7.45</u>	<u>5.04 mS/cm</u>	<u>23.9 °C</u>	<u>clear</u>
<u>1101A</u>	<u>4 gal</u>	<u>7.33</u>	<u>5.04 mS/cm</u>	<u>24.1 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1103A Time Finished: 1103A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-70

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny clear, cool

Well Information:

Total Well Depth: 4100 feet Time: 755a

Depth to Water: 32.84 feet

Height of Water Column (L): 8.14 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.30 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>757a</u>	---	---	---	---	
<u>759a</u>	<u>2 gal</u>	<u>7.36</u>	<u>5.67 mS/cm</u>	<u>21.6 °C</u>	<u>clear</u>
<u>800a</u>	<u>3 gal</u>	<u>7.35</u>	<u>6.21 mS/cm</u>	<u>21.8 °C</u>	<u>clear</u>
<u>801a</u>	<u>4 gal</u>	<u>7.33</u>	<u>6.59 mS/cm</u>	<u>22.1 °C</u>	<u>clear</u>
<u>802a</u>	<u>5 gal</u>	<u>7.35</u>	<u>6.31 mS/cm</u>	<u>22.6 °C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear w/ slight yellow tint

Sample Collection - Time Start: 803a Time Finished: 803a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: sunny, warming

Well Information:

Total Well Depth: 43.00 feet Time: 8:11a

Depth to Water: 34.81 feet

Height of Water Column (L): 8.19 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.31 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>8:13a</u>	---	---	---	---	
<u>8:15a</u>	<u>2 gal</u>	<u>7.0</u>	<u>8.98 mS/cm</u>	<u>21.6 °C</u>	<u>slightly yellow</u>
<u>8:16a</u>	<u>3 gal</u>	<u>6.98</u>	<u>8.86 mS/cm</u>	<u>22.6 °C</u>	<u>slightly yellow</u>
<u>8:17a</u>	<u>4 gal</u>	<u>6.94</u>	<u>9.05 mS/cm</u>	<u>23.1 °C</u>	<u>slightly yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: slightly yellow

Sample Collection - Time Start: 8:18a Time Finished: 8:18a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-12

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 31.00 feet Time: 826a

Depth to Water: 31.61 feet

Height of Water Column (L): 4.39 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (VV)	Factor	Volume
<input checked="" type="radio"/> *0.16 gal/ft <input type="radio"/> *0.65 gal/ft <input type="radio"/> *1.47 gal/ft			= <u>.70</u> gal.	* <u>3</u>	= <u>2 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>827a</u>	---	---	---	---	---
<u>838a</u>	<u>1.0</u> gal	<u>7.08</u>	<u>10.47 mS/cm</u>	<u>18.2 °C</u>	<u>light yellow</u>
<u>849a</u>	<u>1.5</u> gal	<u>7.08</u>	<u>9.01 mS/cm</u>	<u>19.2 °C</u>	<u>light yellow</u>
<u>903a</u>	<u>2.00</u> gal	<u>6.99</u>	<u>10.67 mS/cm</u>	<u>19.9 °C</u>	<u>light yellow</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: light yellow

Sample Collection - Time Start: 909a Time Finished: 909a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: Well purges dry

TOTAL BOTTLES: 5

Water Sampling Field Log

Well No.: M-43

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 36.60 feet Time: 816A

Depth to Water: 28.74 feet

	Well Diameter (circle one) 2-in. 4-in. 6-in.	Well Volume (VV)	Purge Factor	Purge Volume
Height of Water Column (L): <u>7.24</u> feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>1.16</u> gal.	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>818A</u>	---	---	---	---	
<u>821A</u>	<u>1 gal</u>	<u>7.25</u>	<u>8.40 mscm</u>	<u>22.0 °C</u>	<u>light yellow</u>
<u>828A</u>	<u>2 gal</u>	<u>7.36</u>	<u>8.83 mscm</u>	<u>21.4 °C</u>	<u>light yellow</u>
<u>835A</u>	<u>3 gal</u>	<u>7.34</u>	<u>8.76 mscm</u>	<u>21.1 °C</u>	<u>light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 840A Time Finished: 840A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: well recharges slowly

Water Sampling Field Log

Well No.: M-14

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 39.00 feet Time: 7:58A

Depth to Water: 28.79 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>10.21</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.63</u> gal.	* 3 = <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>801A</u>	---	---	---	---	
<u>803A</u>	<u>2 gal</u>	<u>7.50</u>	<u>7.15 mS/cm</u>	<u>22.2 °C</u>	<u>clear</u>
<u>804A</u>	<u>4 gal</u>	<u>7.36</u>	<u>7.06 mS/cm</u>	<u>22.7 °C</u>	<u>clear</u>
<u>805A</u>	<u>5 gal</u>	<u>7.32</u>	<u>7.09 mS/cm</u>	<u>23.4 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 807A Time Finished: 807A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 5

Comments: PVC casing broken

Water Sampling Field Log

Well No.: M-75

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 53.90 feet Time: 848A

Depth to Water: 41.37 feet

Height of Water Column (L): 12.53 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	=	gal. * 3 =	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-16

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 54.60 feet Time: 851a

Depth to Water: 38.25 feet

	Well Diameter (circle one)			
	2-in. 4-in. 6-in.	Well	Purge	Purge
Height of Water Column (L): <u>16.35</u> feet	<input checked="" type="radio"/> 0.16 gal/ft	<input type="radio"/> 0.65 gal/ft	<input type="radio"/> 1.47 gal/ft	= <u> </u> gal. * <u>3</u> = <u> </u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 8

Comments: _____

Water Sampling Field Log

Well No.: M-77

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: breezy, warm, sunny

Well Information:

Total Well Depth: 47.20 feet Time: 1012A

Depth to Water: 36.03 feet

	Well Diameter (circle one)		Well		Purge		Purge
Height of Water Column (L): <u>11.17</u> feet	<input checked="" type="radio"/> 2-in.	<input type="radio"/> 4-in.	<input type="radio"/> 6-in	Volume (VV)	Factor	=	Volume
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal.	*	3

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1017A</u> ^{MB}	---	---	---	---	
	gal				
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-18

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 43.60 feet Time: 124p

Depth to Water: 27.45 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Height of Water Column (L): 16.15 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.60 feet Time: 1038A

Depth to Water: 29.25 feet

Height of Water Column (L): 8.35 feet

Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			

0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.33 gal. * 3 = 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1039A</u>	---	---	---	---	
<u>1041A</u>	<u>2 gal</u>	<u>7.31</u>	<u>5.65 mS/cm</u>	<u>23.1 °C</u>	<u>Clear</u>
<u>1042A</u>	<u>3 gal</u>	<u>7.32</u>	<u>5.53 mS/cm</u>	<u>23.5 °C</u>	<u>Clear</u>
<u>1043A</u>	<u>4 gal</u>	<u>7.35</u>	<u>5.67 mS/cm</u>	<u>23.8 °C</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 1045A Time Finished: 1045A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: EB-1 taken here before moving to next well (6 bottles) 1050A

TOTAL BOTTLES: 5

Water Sampling Field Log

Well No.: M-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool clear

Well Information:

Total Well Depth: 43.70 feet Time: 6:10a

Depth to Water: 35.56 feet

Height of Water Column (L): 8.14 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 5.29 gal. * 3 = 16 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:15a</u>	---	---	---	---	
<u>6:19a</u>	<u>5 gal</u>	<u>7.50</u>	<u>2.27 mscm</u>	<u>19.1 °C</u>	<u>clear</u>
<u>6:29a</u>	<u>10 gal</u>	<u>7.83</u>	<u>2.30 mscm</u>	<u>16.1 °C</u>	<u>clear</u>
<u>6:39a</u>	<u>16 gal</u>	<u>7.63</u>	<u>2.30 mscm</u>	<u>14.8 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 6:42a Time Finished: 6:42a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: well recharges slowly

Water Sampling Field Log

Well No.: M-81A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 41.60 feet Time: 554a

Depth to Water: 35.23 feet

Well Diameter (circle one)	Well Volume (VV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft
Height of Water Column (L): <u>6.37</u> feet			= <u>1.01</u> gal. * <u>3</u> = <u>3</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>557a</u>	---	---	---	---	
<u>600a</u>	<u>1 gal</u>	<u>6.75</u>	<u>6.46 mS/cm</u>	<u>19.4</u>	<u>oc</u> <u>clear</u>
<u>601a</u>	<u>2 gal</u>	<u>6.97</u>	<u>6.55 mS/cm</u>	<u>21.1</u>	<u>oc</u> <u>clear</u>
<u>602a</u>	<u>3 gal</u>	<u>7.01</u>	<u>6.70 mS/cm</u>	<u>21.7</u>	<u>oc</u> <u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 604a Time Finished: 604a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool sunny clear

Well Information:

Total Well Depth: 42.50 feet Time: 1739a

Depth to Water: 30.97 feet

Height of Water Column (L): 11.53 feet * 2-in. gal/ft * 0.16 gal/ft * 4-in. gal/ft * 0.65 gal/ft * 6-in. gal/ft = 1.84 gal. * 3 = 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:42a</u>	---	---	---	---	
<u>7:44a</u>	<u>2 gal</u>	<u>7.39</u>	<u>2.99 mS/cm</u>	<u>19.5 °C</u>	<u>clear</u>
<u>7:45a</u>	<u>4 gal</u>	<u>7.38</u>	<u>3.01 mS/cm</u>	<u>20.3 °C</u>	<u>clear</u>
<u>7:46a</u>	<u>6 gal</u>	<u>7.37</u>	<u>3.02 mS/cm</u>	<u>20.7 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 7:47a Time Finished: 7:47a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-92

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 48.50 feet Time: 903A

Depth to Water: 35.03 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.	Well	Purge	Purge	
Height of Water Column (L): <u>13.47</u> feet	<input checked="" type="radio"/> 0.16 gal/ft	<input type="radio"/> 0.65 gal/ft	<input type="radio"/> 1.47 gal/ft	=	<u>gal.</u> * <u>3</u> =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 49.00 feet Time: 907A

Depth to Water: 34.4 feet

Height of Water Column (L): 14.86 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal. * 3	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny clear

Well Information:

Total Well Depth: 30.0 feet Time: 850a

Depth to Water: 16.20 feet

Height of Water Column (L): 13.8 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume
 = 2.20 gal. * 3 = 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>858a</u>	---	---	---	---	
<u>901a</u>	<u>3 gal</u>	<u>7.41</u>	<u>7.08 mS/cm</u>	<u>23.5 °C</u>	<u>clear</u>
<u>902a</u>	<u>5 gal</u>	<u>7.43</u>	<u>7.02 mS/cm</u>	<u>24.4 °C</u>	<u>clear</u>
<u>903a</u>	<u>7 gal</u>	<u>7.42</u>	<u>6.85 mS/cm</u>	<u>24.5 °C</u>	<u>clear</u>
---	gal	---	---	---	---
---	gal	---	---	---	---
---	gal	---	---	---	---

Sample Appearance: clear

Sample Collection - Time Start: 905a Time Finished: 905a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: VO-3 taken here (6 bottles) clear

TOTAL BOTTLES: 10

Water Sampling Field Log

Well No.: M-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warming, sunny, clear

Well Information:

Total Well Depth: 16.90 feet Time: 838a

Depth to Water: 16.10 feet

Height of Water Column (L): 0.80 feet

Well Diameter (circle one)	Well	Purge	Purge
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= _____ gal.	* <u>3</u>	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	Well considered dry
_____	_____ gal	_____	_____	_____	NO Sample
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	<u>CLO4 / CR / TDS / pH</u>	<u>pH / CLO4 / CR6 / TDS / CR</u>	<u>NO3 / CLO3</u>
Bottles:	<u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny, slight breeze

Well Information:

Total Well Depth: 52.50 feet Time: 911a

Depth to Water: 38.64 feet

Height of Water Column (L): 13.86 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.21 gal. * 3 = 7 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>913a</u>	---	---	---	---	
<u>917a</u>	<u>3 gal</u>	<u>7.52</u>	<u>5.60 mS/cm</u>	<u>22.6 °C</u>	<u>Clear</u>
<u>919A</u>	<u>5 gal</u>	<u>7.42</u>	<u>5.57 mS/cm</u>	<u>23.6 °C</u>	<u>Clear</u>
<u>920A</u>	<u>7 gal</u>	<u>7.41</u>	<u>5.56 mS/cm</u>	<u>23.0 °C</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection Time Start: 922a Time Finished: 922a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-98

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 33.40 feet Time: 2:00p

Depth to Water: _____ feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.			
Height of Water Column (L): _____ feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= _____ gal. * 3 = _____	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DRY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-99

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 35.59 feet Time: 127p

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DRY
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 8

Comments: _____

Water Sampling Field Log

Well No.: M-100

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 33.81 feet Time: 129p

Depth to Water: _____ feet

Well Diameter (circle one)			Well	Purge	Purge
			Volume (VV)	Factor	Volume
2-in.	4-in.	6-in.			

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	<u>DRY</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-101

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 32.15 feet Time: 1:32p

Depth to Water: _____ feet

Well Diameter (circle one) 2-in. 4-in. 6-in

Well Volume (VV) _____ Purge Factor 3 Purge Volume _____

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DRY
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-115

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 47.50 feet Time: 854a

Depth to Water: 36.46 feet

Height of Water Column (L): 11.04 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input type="radio"/> 2-in. <input checked="" type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= _____ gal. * 3 = _____	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 39.00 feet Time: 1126A

Depth to Water: 31.52 feet

Height of Water Column (L): <u>7.48</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1128A</u>	---	---	---	---	
<u>1130A</u>	<u>2 gal</u>	<u>7.54</u>	<u>4.42 mS/cm</u>	<u>23.0 °C</u>	<u>clear</u>
<u>1131A</u>	<u>3 gal</u>	<u>7.56</u>	<u>4.45 mS/cm</u>	<u>23.9 °C</u>	<u>clear</u>
<u>1132A</u>	<u>4 gal</u>	<u>7.56</u>	<u>4.49 mS/cm</u>	<u>24.1 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1135A Time Finished: 1135A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-135

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Bunny, Warm

Well Information:

Total Well Depth: 39.00 feet Time: 1108A

Depth to Water: 32.60 feet

	Well Diameter (circle one)			Well Volume (VV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
Height of Water Column (L): <u>6.40</u> feet	<u>0.16</u> gal/ft	<u>0.65</u> gal/ft	<u>1.47</u> gal/ft	<u>1.02</u> gal.	<u>3</u>	<u>= 3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1111A</u>	---	---	---	---	
<u>1112A</u>	<u>1 gal</u>	<u>7.55</u>	<u>4.24 mS/cm</u>	<u>22.5 °C</u>	<u>clear</u>
<u>1113A</u>	<u>2 gal</u>	<u>7.54</u>	<u>4.59 mS/cm</u>	<u>23.5 °C</u>	<u>clear</u>
<u>1114A</u>	<u>3 gal</u>	<u>7.53</u>	<u>4.71 mS/cm</u>	<u>23.9 °C</u>	<u>clear</u>
<u>1115A</u>	<u>4 gal</u>	<u>7.52</u>	<u>4.72 mS/cm</u>	<u>24.1 °C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection Time Start: 1116A Time Finished: 1116A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: M-1166

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 32.0 feet Time: 1252p

Depth to Water: 27.83 feet

Height of Water Column (L): 4.17 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-167

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 30.0 feet Time: 103p

Depth to Water: 24.60 feet

Height of Water Column (L): 5.40 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	=	gal. * 3 =	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-168

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 350 feet Time: 107p

Depth to Water: 23.41 feet

Height of Water Column (L): 11.59 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 =

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (VV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-1169

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 35.00 feet Time: 112p

Depth to Water: 24.80 feet

Height of Water Column (L): <u>10.20</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal.	* <u>3</u> =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-170

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 35.00 feet Time: 120p

Depth to Water: 26.21 feet

Height of Water Column (L): 8.79 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = gal.

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: N-172

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 37.00 feet Time: 128p

Depth to Water: 26.70 feet

	Well Diameter (circle one)		Well Volume (WV)	Purge Factor	Purge Volume
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.				
Height of Water Column (L): <u>10.30</u> feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	=	gal.	* <u>3</u>	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-173

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, warm

Well Information:

Total Well Depth: 40.00 feet Time: 149p

Depth to Water: 28.08 feet

Height of Water Column (L): <u>11.92</u> feet	Well Diameter (circle one)	Well Volume (VV)	Purge Factor	Purge Volume
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>gal.</u> * <u>3</u> =	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-174

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 28.00 feet Time: 205p

Depth to Water: 19.61 feet

	Well Diameter (circle one)	Well	Purge	Purge
	2-in. 4-in. 6-in.	Volume (WV)	Factor	Volume
Height of Water Column (L): <u>8.39</u> feet	* <u>0.16</u> gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>gal.</u> * <u>3</u> = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-175

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Sunny warm

Well Information:

Total Well Depth: 29.00 feet Time: 208p

Depth to Water: 19.87 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Height of Water Column (L): 9.13 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-176

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 30.00 feet Time: 210p

Depth to Water: 22.50 feet

Height of Water Column (L): 7.50 feet * 2-in. gal/ft * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV)	Purge Factor	Purge Volume
=	=	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				DTW ONLY NO SAMPLE
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-177

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 30.00 feet Time: 2:13p

Depth to Water: 20.37 feet

Height of Water Column (L): 9.63 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (VV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal. * 3	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: MW-154

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb. 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: 2/ice + CLEA

Well Information:

Total Well Depth: 50.0 feet Time: 1242p

Depth to Water: - 28.01 feet

Water Column (L): 21.99 feet X 0.4893 = 11 gal

Well Diameter (circle one)			Purge Volume
2-in.	4-in.	6-in	
0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1245p</u>	<u>11 gal</u>	<u>24.30°</u>	<u>CLEA</u>

Comments:

Sample Collection Time - 1252p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles - 4

Water Sampling Field Log

Well No.: MW-155

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: Clear 52°

Well Information:

Total Well Depth: 44.0 feet Time: 1123+

Depth to Water: - 30.65 feet

Water Column (L): 13.35 feet X 0.4893 = 7.915 **Purge Volume**

Well Diameter (circle one)
 2-in. 4-in. 6-in.
 1.9 4.41

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1125A</u>		<u>23.7</u>	<u>Clear</u>

Comments:

Sample Collection Time - 1130A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-18

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear 50°

Well Information:

Total Well Depth: 52.0 feet Time: 130p

Depth to Water: - 28.80 feet

Water Column (L): 23.2 feet X

Well Diameter (circle one)			Purge Volume
<u>2-in.</u>	4-in.	6-in	
0.4893	1.9	4.41	= <u>11 gals</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>132p</u>	<u>11 gals</u>	<u>22.2°</u>	<u>clear</u>

Comments: pulled troll out. put back in when finished.

Sample Collection Time - 145p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 43.08 feet Time: 1107a

Depth to Water: 29.14 feet

Height of Water Column (L): 13.94 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	0.65 gal/ft	1.47 gal/ft	= <u>2.23</u> gal.	* <u>3</u>	= <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1108a</u>	---	---	---	---	
<u>1111a</u>	<u>3</u> gal	<u>7.55</u>	<u>9.44</u> mS/cm	<u>23.5</u> °C	<u>clear</u>
<u>1113a</u>	<u>5</u> gal	<u>7.44</u>	<u>9.39</u> mS/cm	<u>24.0</u> °C	<u>clear</u>
<u>1114a</u>	<u>7</u> gal	<u>7.43</u>	<u>9.50</u> mS/cm	<u>24.2</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1116a Time Finished: 1116a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PL-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: Clear 52°

Well Information:

Total Well Depth: 33.0 feet Time: 1112A

Depth to Water: - 26.82 feet

Water Column (L): 6118. feet X

Well Diameter (circle one)			Purge Volume
2-in.	4-in.	6-in	
<u>0.4893</u>	1.9	4.41	= <u>3 gals</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>115A</u>	<u>3 gals</u>	<u>24.0°</u>	<u>C/Ex R</u>

Comments:

Sample Collection Time - 1118A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-54

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 34.60 feet Time: 9:17a

Depth to Water: 22.51 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>12.09</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.93</u> gal.	* <u>3</u> = <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>9:20a</u>	---	---	---	---	
<u>9:23a</u>	<u>2 gal</u>	<u>7.40</u>	<u>6.06 mS/cm</u>	<u>23.7 °C</u>	<u>cloudy</u>
<u>9:24a</u>	<u>4 gal</u>	<u>7.39</u>	<u>6.10 mS/cm</u>	<u>25.1 °C</u>	<u>cloudy</u>
<u>9:25a</u>	<u>10 gal</u>	<u>7.39</u>	<u>6.21 mS/cm</u>	<u>25.3 °C</u>	<u>slightly cloudy</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 9:27a Time Finished: 9:27a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 FEB 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: Nice clear

Well Information:

Total Well Depth: 54.9 feet Time: 2:11 p

Depth to Water: - 27.55 feet

Water Column (L):	<u>27.35</u> feet	X	Well Diameter (circle one)			= <u>121</u> gallons
			2-in. 0.4893	4-in. 1.9	6-in. 4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>2:32</u>	<u>121 gal</u>	<u>21.9</u>	<u>CLEAR</u>

Comments:

Sample Collection Time - 3:57

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PL-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 17 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: clear 45°

Well Information:

Total Well Depth: 55.0 feet Time: 11:13A

Depth to Water: - 21.78 feet

Water Column (L): 33.22 feet X

Well Diameter (circle one)			Purge Volume
2-in.	4-in.	6-in.	
<u>0.4893</u>	1.9	4.41	= <u>16 gals</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>11:5A</u>	<u>16 gals</u>	<u>19.8°C</u>	<u>clear</u>

Comments: ADDED 10' TO TWD

Sample Collection Time - 11:30A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: NICE CLEAR 45°

Well Information:

Total Well Depth: 43.0 feet Time: 1052A

Depth to Water: - 22.62 feet

Water Column (L): 20.38 feet X 0.4893 = 10 gals

Well Diameter (circle one) Purge Volume

2-in. 4-in. 6-in.

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1054A</u>	<u>10 gals</u>	<u>19.5°</u>	<u>Clear</u>

Comments: Added 10' to T.D.W.D

Sample Collection Time - 1105A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-59

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear 46°

Well Information:

Total Well Depth: 45.0 feet Time: 1200p

Depth to Water: - 20.40 feet

Water Column (L): 24.6 feet
 Well Diameter (circle one)
 2-in. 4-in. 6-in.
 0.4893 1.9 4.41 = 12 gals

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1205p</u>	<u>12 gals</u>	<u>19.4</u>	<u>clear</u>

Comments: ADDED 10' to T.W.D

Sample Collection Time - 1215p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear no wind

Well Information:

Total Well Depth: 50.0 ~~40.0~~ feet Time: 1138t

Depth to Water: - 21.0 feet

Water Column (L): 29.0 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 14.9 gals

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1140t</u>	<u>14 gals</u>	<u>19.7°C</u>	<u>clear</u>

Comments: ADDED 10' TO T.W.D

Sample Collection Time - 1150A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-62

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear

Well Information: _____

Total Well Depth: 48.0 feet Time: 1223p

Depth to Water: - 19.80 feet

Water Column (L):	<u>28.2</u> feet	X	Well Diameter (circle one)			= <u>14 gals</u>
			<u>2-in.</u> 0.4893	4-in. 1.9	6-in. 4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1225p</u>	<u>14 gals</u>	<u>20.1°C</u>	<u>clear</u>

Comments: Added 10' to T.W.D.

Sample Collection Time - 1240p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC 68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump ● Disposable Bailer O

Weather Conditions: clear 50°c

Well Information:

Total Well Depth: 535.3 feet Time: 1245p

Depth to Water: - 12.79 feet

Water Column (L): 42.51 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 21 gals

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1247p</u>	<u>21 gals</u>	<u>20.8°c</u>	<u>clear</u>

Comments:

Sample Collection Time - 115p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 33.23 feet Time: 1012a

Depth to Water: 25.83 feet

Well Diameter (circle one)	Well Volume (VV)	Purge Factor	Purge Volume
2-in. 4-in. 6-in.			
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	= <u>1.18</u> gal.	* <u>3</u>	= <u>4 gal</u>

Height of Water Column (L): 7.40 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1014a</u>	---	---	---	---	
<u>1015a</u>	<u>2</u> gal	<u>7.50</u>	<u>8.33</u> mS/cm	<u>23.3</u> °C	<u>clear</u>
<u>1016a</u>	<u>3</u> gal	<u>7.46</u>	<u>8.62</u> mS/cm	<u>23.9</u> °C	<u>clear</u>
<u>1017a</u>	<u>4</u> gal	<u>7.41</u>	<u>10.31</u> mS/cm	<u>23.8</u> °C	<u>clear</u>
<u>1018a</u>	<u>5</u> gal	<u>7.49</u>	<u>8.73</u> mS/cm	<u>24.2</u> °C	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1019a Time Finished: 1019a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5</u> Bottles	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 39.54 feet Time: 1031a

Depth to Water: 28.20 feet

Height of Water Column (L): 11.34 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.81 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1032a</u>	---	---	---	---	
<u>1034a</u>	<u>2 gal</u>	<u>7.50</u>	<u>8.21 mS/cm</u>	<u>23.8 °C</u>	<u>clear</u>
<u>1035a</u>	<u>4 gal</u>	<u>7.46</u>	<u>8.22 mS/cm</u>	<u>24.4 °C</u>	<u>clear</u>
<u>1036a</u>	<u>5 gal</u>	<u>7.45</u>	<u>8.22 mS/cm</u>	<u>24.7 °C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1038a Time Finished: 1038a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments: FB-1 taken here 6 bottles 1040a

Water Sampling Field Log

Well No.: PC-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: WARM sunny slight breeze

Well Information:

Total Well Depth: 49.44 feet Time: 1041ea

Depth to Water: 29.29 feet

Height of Water Column (L): 20.15 feet

Well Diameter (circle one)			Well Volume (VV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.22 gal.</u>	* <u>3</u>	= <u>10 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1048a</u>	---	---	---	---	
<u>1051a</u>	<u>4 gal</u>	<u>7.43</u>	<u>8.71 ms/cm</u>	<u>23.3 °C</u>	<u>clear</u>
<u>1054a</u>	<u>7 gal</u>	<u>7.40</u>	<u>8.67 ms/cm</u>	<u>24.0 °C</u>	<u>clear</u>
<u>1056a</u>	<u>10 gal</u>	<u>7.38</u>	<u>8.62 ms/cm</u>	<u>23.8 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1058a Time Finished: 1058a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: TC-86

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: no wind

Well Information:

Total Well Depth: 28.0 feet Time: 10.11A

Depth to Water: - 6.62 feet

Water Column (L): 21.38 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 10 gals

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>10.13</u>	<u>10 gals</u>	<u>21.30</u>	<u>clear</u>

Comments:

Sample Collection Time - 10.18A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-90

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear

Well Information:

Total Well Depth: 33.0 feet Time: 9:50 A

Depth to Water: - 6.72 feet

Water Column (L):	<u>26.78</u> feet	X	Well Diameter (circle one)			= <u>13.0 gals</u>
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>9:53 A</u>	<u>13 gals</u>	<u>21.3^{cc}</u>	<u>clear</u>

Comments:

Sample Collection Time - 10:03 A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-91

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear 45°c

Well Information:

Total Well Depth: 37.0 feet Time: 1027A

Depth to Water: - 12.10 feet

Water Column (L): 24.9 feet X 0.4893 = 12 gals

Well Diameter (circle one)

2-in. 4-in. 6-in.
0.4893 1.9 4.41

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>1028A</u>	<u>12 gals</u>	<u>20.2°c</u>	<u>clear</u>

Comments:

Sample Collection Time - 1035A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-94

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear

Well Information:

Total Well Depth: 20.0 feet Time: 930A

Depth to Water: - 12.72 feet

Water Column (L):	<u>7.28</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			<u>0.4893</u>	1.9	4.41		<u>4.913</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>932A</u>	<u>4.913</u>	<u>20.700</u>	<u>clear</u>

Comments:

Sample Collection Time - 935A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: RC-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 12 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: CLEAR

Well Information:

Total Well Depth: 33.5 feet Time: 9.30A

Depth to Water: - 5.11 feet

Water Column (L): 28.39 feet X 0.4893 = 14.915 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.
 0.4893 1.9 4.41

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>9:33A</u>	<u>14 gals</u>	<u>20.8°C</u>	<u>CLEAR</u>

Comments:

Sample Collection Time - 9:40A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-9812

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: No clouds

Well Information:

Total Well Depth: 410.5 feet Time: 145

Depth to Water: - 24.77 feet

Water Column (L): 15.23 feet

Well Diameter (circle one)		
2-in.	4-in.	6-in.
0.4893	1.9	4.41

Purge Volume = 29 gals

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>148 p</u>	<u>29 gal</u>	<u>24.10c</u>	<u>clear</u>

Comments:

Sample Collection Time - 211 p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-99R2/R3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04-Feb-13

Sampling Method: Sample Port Disposable Bailer sample port

Weather Conditions: clear

Well Information:

Total Well Depth: 55.3 feet Time: 909A

Depth to Water: - 35.94 feet

Water Column (L):	<u>19.36</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments: pumping

Sample Collection Time - 848A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-101R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 Feb 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear 59°

Well Information:

Total Well Depth: 50.5 feet Time: 220

Depth to Water: - 29.48 feet

Water Column (L): 21.02 feet

Well Diameter (circle one)

2-in. 4-in. 6-in.

0.4893 1.9 4.41

Purge Volume

= 10 gal

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>224</u>	<u>10 gals</u>	<u>28.7°</u>	<u>clear</u>

Comments:

Sample Collection Time - 233

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PL-103

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 FEB 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: CLEAR

Well Information:

Total Well Depth: 29.5 feet Time: 130p

Depth to Water: - 24.33 feet

Water Column (L):	<u>5.17</u> feet	X	Well Diameter (circle one)			= <u>3</u> gals
			<u>2-in.</u>	4-in.	6-in	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>133p</u>		<u>24.4°C</u>	<u>CLEAR</u>

Comments:

Sample Collection Time - 137p

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-115R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE POINT

Weather Conditions: NO WIND

Well Information:

Total Well Depth: 55.5 feet Time: 9:12A

Depth to Water: - 12.41 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Purge Volume

Water Column (L): 4309 feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments: PUMPING

Sample Collection Time - 8:51A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PL-116R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: NICE AND CLEAR

Well Information:

Total Well Depth: 55.5 feet Time: 906A

Depth to Water: - 15.19 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 40.31 feet X 0.4893 1.9 4.41 = _____

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments: PUMPING

Sample Collection Time - 854A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PE-117

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 Feb 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE PORT

Weather Conditions: CLEAR

Well Information:

Total Well Depth: 53.0 feet Time: 901A

Depth to Water: - 13.60 feet

Water Column (L):	<u>39.4</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments: PUMPING

Sample Collection Time - 0824A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles - 4

Water Sampling Field Log

Well No.: PC-118

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: CLEAR

Well Information:

Total Well Depth: 51.0 feet Time: 916A

Depth to Water: - 9.55 feet

Water Column (L): 41.45 feet X Purge Volume

		Well Diameter (circle one)			
		2-in.	4-in.	6-in	
		0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLEAR</u>

Comments: Pumping

Sample Collection Time - 828A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles - 4

Water Sampling Field Log

Well No.: PC-119

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: 55°

Well Information:

Total Well Depth: 47.0 feet Time: 920A

Depth to Water: - 7.38 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Purge Volume

Water Column (L): 39.62 feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments: PUMPING

Sample Collection Time - 832A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-120

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 FEB 13

Sampling Method: Electric Pump 0 Disposable Bailer 0 Sample port •

Weather Conditions: 55°

Well Information:

Total Well Depth: 47.0 feet Time: 923A

Depth to Water: - 5.26 feet

Water Column (L):	<u>41.74</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			2-in. 0.4893	4-in. 1.9	6-in 4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>CLER</u>

Comments: Pump off but sample collected

Sample Collection Time - 835A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-121

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 04 Feb 13

Sampling Method: Electric Pump Disposable Bailer SAMPLE port

Weather Conditions: no wind

Well Information:

Total Well Depth: 38.5 feet Time: 925A

Depth to Water: - 5.16 feet

Water Column (L):	<u>33.34</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>clear</u>

Comments: Pump off but sample collected

Sample Collection Time - 839A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4
Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-122

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford Date: 13 FEB 13

Sampling Method: Electric Pump Disposable Bailer

Weather Conditions: clear - nice

Well Information:

Total Well Depth: 38.0 feet Time: 10:57A

Depth to Water: - 32.71 feet

Water Column (L): 5.29 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 3 gals Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
<u>10:59A</u>	<u>3 gals</u>	<u>23.50C</u>	<u>clear</u>

Comments:

Sample Collection Time - 1:04A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles - 4

Water Sampling Field Log

Well No.: PC-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 34.70 feet Time: 508a

Depth to Water: 22.77 feet

Height of Water Column (L): 11.93 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.90 gal. * 3 = 6 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>512a</u>	---	---	---	---	
<u>514a</u>	<u>2 gal</u>	<u>6.69</u>	<u>7.97 mS/cm</u>	<u>21.7 °C</u>	<u>clear</u>
<u>516a</u>	<u>4 gal</u>	<u>6.84</u>	<u>8.02 mS/cm</u>	<u>22.3 °C</u>	<u>clear</u>
<u>517a</u>	<u>6 gal</u>	<u>7.02</u>	<u>8.11 mS/cm</u>	<u>22.9 °C</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 519a Time Finished: 519a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 34.60 feet Time: 710a

Depth to Water: 24.88 feet

Height of Water Column (L): 9.72 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	= <u>1.55</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>715a</u>	---	---	---	---	
<u>716a</u>	<u>2 gal</u>	<u>7.27</u>	<u>9.41 mS/cm</u>	<u>19.3 °C</u>	<u>cloudy</u>
<u>717a</u>	<u>4 gal</u>	<u>7.22</u>	<u>10.06 mS/cm</u>	<u>21.5 °C</u>	<u>clear</u>
<u>718a</u>	<u>5 gal</u>	<u>7.28</u>	<u>10.72 mS/cm</u>	<u>22.2 °C</u>	<u>clear</u>
<u>719a</u>	<u>6 gal</u>	<u>7.21</u>	<u>10.84 mS/cm</u>	<u>22.9 °C</u>	<u>slightly cloudy</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 722a Time Finished: 722a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear, sunny

Well Information:

Total Well Depth: 33.50 feet Time: 732a

Depth to Water: 23.15 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>10.35</u> feet	0.16 gal/ft	0.65 gal/ft	* 1.47 gal/ft	= <u>1.65</u> gal.	* <u>3</u> = <u>5</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>735a</u>	---	---	---	---	
<u>737a</u>	<u>2 gal</u>	<u>7.38</u>	<u>9.30 mS/cm</u>	<u>19.3 °C</u>	<u>cloudy</u>
<u>738a</u>	<u>4 gal</u>	<u>7.28</u>	<u>10.12 mS/cm</u>	<u>20.9 °C</u>	<u>slightly cloudy</u>
<u>739a</u>	<u>5 gal</u>	<u>7.27</u>	<u>10.32 mS/cm</u>	<u>21.2 °C</u>	<u>clear</u>
<u>740A</u>	<u>6 gal</u>	<u>7.30</u>	<u>10.39 mS/cm</u>	<u>21.4 °C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 742a Time Finished: 742a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-126

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, sunny, clear

Well Information:

Total Well Depth: 34.30 feet Time: 141a

Depth to Water: 22.0 feet

Height of Water Column (L): 1230 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 0.16 gal/ft <input type="radio"/> 0.65 gal/ft <input type="radio"/> 1.47 gal/ft			= <u>1.96</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>150a</u>	---	---	---	---	
<u>151a</u>	<u>2 gal</u>	<u>7.33</u>	<u>13.48 mS/cm</u>	<u>21.0 °C</u>	<u>clear</u>
<u>153a</u>	<u>4 gal</u>	<u>7.26</u>	<u>13.38 mS/cm</u>	<u>21.9 °C</u>	<u>clear</u>
<u>154a</u>	<u>6 gal</u>	<u>7.24</u>	<u>13.21 mS/cm</u>	<u>22.0 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 151a Time Finished: 156a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-127

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: clear, sunny, cool

Well Information:

Total Well Depth: 34.70 feet Time: 8:30a

Depth to Water: 18.60 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>16.1</u> feet	2-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.57</u> gal. * <u>3</u> = <u>8 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>806a</u>	---	---	---	---	
<u>806a</u>	<u>3 gal</u>	<u>7.44</u>	<u>7.65 mS/cm</u>	<u>22.3 °C</u>	<u>very slightly cloudy</u>
<u>807a</u>	<u>6 gal</u>	<u>7.39</u>	<u>7.76 mS/cm</u>	<u>22.8 °C</u>	<u>clear</u>
<u>809a</u>	<u>8 gal</u>	<u>7.36</u>	<u>7.76 mS/cm</u>	<u>23.1 °C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 8:11a Time Finished: 8:11a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 34.70 feet Time: 534a
 Depth to Water: 18.30 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Height of Water Column (L): 16.40 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.62 gal. * 3 = 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>535a</u>	---	---	---	---	
<u>537a</u>	<u>3 gal</u>	<u>7.15</u>	<u>6.34 mS/cm</u>	<u>21.6 °C</u>	<u>clear</u>
<u>539a</u>	<u>6 gal</u>	<u>7.21</u>	<u>7.10 mS/cm</u>	<u>23.1 °C</u>	<u>clear</u>
<u>540a</u>	<u>8 gal</u>	<u>7.24</u>	<u>7.25 mS/cm</u>	<u>24.1 °C</u>	<u>slightly cloudy</u>
<u>541a</u>	<u>10 gal</u>	<u>7.29</u>	<u>7.25 mS/cm</u>	<u>24.6 °C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 543a Time Finished: 543a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-129

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 37.70 feet Time: 551a

Depth to Water: 18.12 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>19.58</u> feet	<input checked="" type="radio"/> 0.16 gal/ft	<input type="radio"/> 0.65 gal/ft	<input type="radio"/> 1.47 gal/ft	= <u>3.13</u> gal.	* <u>3</u> = <u>9 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>552a</u>	---	---	---	---	
<u>554a</u>	<u>3</u> gal	<u>7.34</u>	<u>5.86</u> mS/cm	<u>20.9</u> °C	<u>clear</u>
<u>556a</u>	<u>6</u> gal	<u>7.19</u>	<u>6.97</u> mS/cm	<u>22.4</u> °C	<u>clear</u>
<u>558a</u>	<u>9</u> gal	<u>7.20</u>	<u>8.39</u> mS/cm	<u>23.2</u> °C	<u>clear</u>
<u>559a</u>	<u>12</u> gal	<u>7.21</u>	<u>8.48</u> mS/cm	<u>22.9</u> °C	<u>clear</u>
<u>601a</u>	<u>15</u> gal	<u>7.19</u>	<u>8.62</u> mS/cm	<u>23.1</u> °C	<u>clear</u>
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 603a Time Finished: 603a

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5</u> Bottles	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-130

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 49.70 feet Time: 608a

Depth to Water: 19.91 feet

Height of Water Column (L): 30.79 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.92 gal. * 3 = 15 gal

Well Diameter (circle one) 2-in. 4-in. 6-in. Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>610a</u>	---	---	---	---	
<u>614a</u>	<u>5 gal</u>	<u>7.34</u>	<u>8.64 mS/cm</u>	<u>21.5 °C</u>	<u>clear</u>
<u>617a</u>	<u>10 gal</u>	<u>7.32</u>	<u>8.77 mS/cm</u>	<u>22.1 °C</u>	<u>clear</u>
<u>620a</u>	<u>15 gal</u>	<u>7.32</u>	<u>8.77 mS/cm</u>	<u>22.1 °C</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 622a Time Finished: 622a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

11.13

Water Sampling Field Log

Well No.: PC-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 39.40 feet Time: 627a

Depth to Water: 10.78 feet

Well Diameter (circle one) 2-in. 4-in. 6-in.

Height of Water Column (L): 28.62 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 4.57 gal. * 3 = 14 gal

Well Volume (VV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>630a</u>	---	---	---	---	
<u>633a</u>	<u>5 gal</u>	<u>7.41</u>	<u>12.80 mS/cm</u>	<u>21.5 °C</u>	<u>clear</u>
<u>636a</u>	<u>10 gal</u>	<u>7.25</u>	<u>13.11 mS/cm</u>	<u>22.0 °C</u>	<u>clear</u>
<u>638a</u>	<u>14 gal</u>	<u>7.23</u>	<u>13.31 mS/cm</u>	<u>22.5 °C</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 640a Time Finished: 640a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3

Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

P. kW

Water Sampling Field Log

Well No.: PC-1320

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-4-13

Sampling Method: Electric Pump ● Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 39.70 feet Time: 6:50a

Depth to Water: 9.48 feet

	Well Diameter (circle one)						
	2-in.	4-in.	6-in		Well	Purge	
					Volume (WV)	Factor	
Height of Water Column (L):	<u>30.22</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>4.83</u> gal.	* <u>3</u>	= <u>15 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:52a</u>	---	---	---	---	---
<u>6:56a</u>	<u>5 gal</u>	<u>7.22</u>	<u>13.10 mS/cm</u>	<u>21.6°C</u>	<u>clear</u>
<u>6:59a</u>	<u>10 gal</u>	<u>7.22</u>	<u>13.19 mS/cm</u>	<u>23.4°C</u>	<u>clear</u>
<u>7:02a</u>	<u>15 gal</u>	<u>7.24</u>	<u>13.11 mS/cm</u>	<u>23.2°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 7:04a Time Finished: 7:04a

Analyses:	<u>CLO4 / CR / TDS / pH</u>	<u>pH / CLO4 / CR6 / TDS / CR</u>	<u>NO3 / CLO3</u>
Bottles:	<u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Eric Crawford

Date: 04 Feb 13

Sampling Method: Electric Pump Disposable Bailer Sample port

Weather Conditions: No wind

Well Information:

Total Well Depth: 40.2 feet Time: _____

Depth to Water: - _____ feet

Well Diameter (circle one)
2-in. 4-in. 6-in

Purge Volume

Water Column (L): _____ feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	Temp	Observations of Sample
_____	_____	_____	<u>C/ERR</u>

Comments: Roots in well NO DTW but sample collected

Sample Collection Time - 843A

Analyses: CR / TDS / STERILE FILTERED CLO4 / CLO4

Bottles: 4 Bottles

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-135A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear, sunny

Well Information:

Total Well Depth: 50.8 feet Time: 705a

Depth to Water: 29.51 feet

Height of Water Column (L): <u>21.29</u> feet	Well Diameter (circle one)					
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.40</u> gal.	* <u>3</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>707a</u>	---	---	---	---	
<u>709A</u>	<u>4</u> gal	<u>7.41</u>	<u>12.85 mscm</u>	<u>21.8 °C</u>	<u>clear</u>
<u>711A</u>	<u>7</u> gal	<u>7.23</u>	<u>12.72 mscm</u>	<u>22.4 °C</u>	<u>clear</u>
<u>713A</u>	<u>10</u> gal	<u>7.21</u>	<u>12.70 mscm</u>	<u>22.5 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 715A Time Finished: 715A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-136

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 40.3 feet Time: 6:36A

Depth to Water: 33.66 feet

Well Diameter (circle one) Well Volume (WV) Purge Factor Purge Volume
 2-in. 4-in. 6-in
 Height of Water Column (L): 6.64 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.06 gal. * 3 = 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:39A</u>	-----	-----	-----	-----	
<u>6:41 A</u>	<u>1</u> gal	<u>7.37</u>	<u>7.05 mS/cm</u>	<u>20.3°</u>	<u>Slightly yellow</u>
<u>6:42A</u>	<u>2</u> gal	<u>7.33</u>	<u>7.03 mS/cm</u>	<u>22.1°</u>	<u>Slightly yellow</u>
<u>6:43 A</u>	<u>3</u> gal	<u>7.32</u>	<u>7.13 mS/cm</u>	<u>22.5°</u>	<u>Slightly yellow</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: Slightly yellow

Sample Collection Time Start: 6:45a Time Finished: 6:45a

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-144

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, sunny, clear

Well Information:

Total Well Depth: 39.7 feet Time: 652A

Depth to Water: 30.59 feet

	Well Diameter (circle one)		Well Volume (WV)	Purge Factor	Purge Volume
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>9.11</u> feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft		= <u>1.45 gal.</u>	* <u>3</u>	= <u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>654a</u>	---	---	---	---	
<u>651a</u>	<u>2 gal</u>	<u>7.27</u>	<u>7.64 mS/cm</u>	<u>20.9 °C</u>	<u>slightly cloudy</u>
<u>657a</u>	<u>3 gal</u>	<u>7.27</u>	<u>7.65 mS/cm</u>	<u>22.2 °C</u>	<u>clear</u>
<u>658a</u>	<u>4 gal</u>	<u>7.27</u>	<u>7.78 mS/cm</u>	<u>22.6 °C</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection Time Start: 659A Time Finished: 659A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

TOTAL BOTTLES: 5

Comments:

Water Sampling Field Log

Well No.: PC-148

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear, sunny

Well Information:

Total Well Depth: 50.2 feet Time: 7:24A

Depth to Water: 28.68 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>21.52</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* <u>1.47 gal/ft</u>	= <u>31.63</u> gal.	* <u>3</u> = <u>95 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:26A</u>	---	---	---	---	
<u>7:33A</u>	<u>10 gal</u>	<u>7.45</u>	<u>9.72 mS/cm</u>	<u>20.9 °C</u>	<u>clear</u>
<u>7:40A</u>	<u>20 gal</u>	<u>7.44</u>	<u>9.02 mS/cm</u>	<u>21.4 °C</u>	<u>clear</u>
<u>7:48A</u>	<u>30 gal</u>	<u>7.40</u>	<u>9.74 mS/cm</u>	<u>21.0 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 7:50A Time Finished: 7:50A

Analyses:	<u>CLO4 / CR / TDS / pH</u>	<u>pH / CLO4 / CR6 / TDS / CR</u>	<u>NO3 / CLO3</u>
Bottles:	<u>5 Bottles</u>	<u>6 Bottles</u>	<u>2 bottles</u>

Comments: Historic data purged 30 gal before sampling due to location of well + length of pump hose well slow to recharge TOTAL BOTTLES: 5

Water Sampling Field Log

Well No.: PC-149

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: clear, sunny, cool

Well Information:

Total Well Depth: 50.00 feet Time: 759 A

Depth to Water: 29.63 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>20.37</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>29.94</u> gal.	* <u>3</u> = <u>90 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>801A</u>	---	---	---	---	
<u>810A</u>	<u>12</u> gal	<u>7.42</u>	<u>5.33 mscm</u>	<u>20.6</u> °C	<u>clear</u>
<u>818A</u>	<u>24</u> gal	<u>7.33</u>	<u>5.29 mscm</u>	<u>21.4</u> °C	<u>clear</u>
<u>828A</u>	<u>35</u> gal	<u>7.33</u>	<u>5.32 mscm</u>	<u>20.9</u> °C	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 830A Time Finished: 830A

Analyses: CLO4 / CR / TDS / pH pH / CLO4 / CR6 / TDS / CR NO3 / CLO3
 Bottles: 5 Bottles 6 Bottles 2 bottles

Comments: Historic -
Due to location
length of pump hose
+ well slow to
recharge
was purged
35 gals
before collecting
sample

TOTAL BOTTLES: 5

Water Sampling Field Log

Well No.: PC-150

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Eric Crawford Date: 2-5-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, clear, sunny

Well Information:

Total Well Depth: 45.70 feet Time: 841A

Depth to Water: 29.95 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.	Well	Purge	Purge	
Height of Water Column (L): <u>15.75</u> feet	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	Volume (WV)	Factor	Volume	
		= <u>23.15</u> gal.	* <u>3</u>	= <u>69</u> gal	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>842A</u>	---	---	---	---	
<u>858A</u>	<u>23 gal</u>	<u>7.40</u>	<u>7.31 mS/cm</u>	<u>21.9 °C</u>	<u>clear</u>
<u>913A</u>	<u>46 gal</u>	<u>7.36</u>	<u>7.34 mS/cm</u>	<u>22.6 °C</u>	<u>clear</u>
<u>925A</u>	<u>69 gal</u>	<u>7.36</u>	<u>7.63 mS/cm</u>	<u>25.8 °C</u>	<u>clear</u>
---	gal	---	---	---	---
---	gal	---	---	---	---
---	gal	---	---	---	---

Sample Appearance: clear

Sample Collection - Time Start: 928A Time Finished: 928A

Analyses: <u>CLO4 / CR / TDS / pH</u>	pH / CLO4 / CR6 / TDS / CR	NO3 / CLO3
Bottles: <u>5 Bottles</u>	6 Bottles	2 bottles

TOTAL BOTTLES: 5

Comments: VD-1 taken here 5 bottles

Water Sampling Field Log

Well No.: I- AA

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm sunny

Well Information:

Total Well Depth: 46.00 feet Time: 12:47 p

Depth to Water: 31.62 feet

Height of Water Column (L): 14.38 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AB

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 52.00 feet Time: 1249p

Depth to Water: 31.22 feet

Height of Water Column (L): 20.78 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AC

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 50.00 feet Time: 6:47A

Depth to Water: 28.86 feet

Height of Water Column (L): 21.14 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1- AD

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 50.00 feet Time: 645A

Depth to Water: 29.11 feet

Height of Water Column (L): 20.89 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AR

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 45.00 feet Time: 1245p

Depth to Water: 35.70 feet

Height of Water Column (L): 9.30 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>137p</u>	<u>8.95 mS/cm</u>	<u>25.6 °C</u>	<u>6.93</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 138p Time Finished: 138p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 45.70 feet Time: 1255p

Depth to Water: 41.97 feet ←

Height of Water Column (L): 3.73 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>131p</u>	<u>7.04 mS/cm</u>	<u>24.8 °C</u>	<u>6.95</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 133p Time Finished: 133p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-C

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 43.80 feet Time: 118p

Depth to Water: 41.80 feet ←

Height of Water Column (L): 2.0 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>115p</u>	<u>9.85 mS/cm</u>	<u>25.1 °C</u>	<u>7.39</u>	<u>very slight yellow</u>

Sample Appearance: Very slight yellow

Sample Collection - Time Start: 117p Time Finished: 117p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- D

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 47.70 feet Time: 223p

Depth to Water: 43.41 feet ←

Height of Water Column (L): 4.29 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1:11p</u>	<u>9.71 mS/cm</u>	<u>25.7 °C</u>	<u>7.49</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 112p Time Finished: 112p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-E

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 46.70 feet
Depth to Water: 43.05 feet
Height of Water Column (L): 3.65 feet
Time: 2:18 p

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>102p</u>	<u>12.47 mS/cm</u>	<u>26.0°c</u>	<u>6.95</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 104p Time Finished: 104p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- F

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 45.80 feet Time: 131p

Depth to Water: 41.12 feet

Height of Water Column (L): 4.68 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1255p</u>	<u>15.35 mS/cm</u>	<u>26.3 °C</u>	<u>7.02</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1256p Time Finished: 1256p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- G

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 42.60 feet Time: 139p

Depth to Water: 40.10 feet

Height of Water Column (L): 2.50 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1247p</u>	<u>15.58 mS/cm</u>	<u>27.4 °C</u>	<u>6.89</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1248p Time Finished: 1248p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-H

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 46.50 feet Time: 146p

Depth to Water: 44.30 feet ←

Height of Water Column (L): 2.20 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1234p</u>	<u>15.28 mS/cm</u>	<u>26.7 °C</u>	<u>7.22</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1235p Time Finished: 1235p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- I

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 44.20 feet Time: 721A

Depth to Water: 22.68 feet

Height of Water Column (L): 21.52 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>722A</u>	<u>10.48 mscm</u>	<u>22.3 °C</u>	<u>7.32</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 724A Time Finished: 724A

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- J

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 44.50 feet Time: 7:09 A

Depth to Water: 28.18 feet

Height of Water Column (L): 16.32 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>7:11 A</u>	<u>7.24 mS/cm</u>	<u>21.1 °C</u>	<u>7.08</u>	<u>slightly yellow</u>

Sample Appearance: slightly yellow

Sample Collection - Time Start: 7:13 A Time Finished: 7:13 A

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-K

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 40.60 feet Time: 706A

Depth to Water: 25.15 feet

Height of Water Column (L): 15.45 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>707A</u>	<u>6-9.8 mS/cm</u>	<u>21.5 °C</u>	<u>7.41</u>	<u>very slight yellow</u>

Sample Appearance: very slight yellow

Sample Collection - Time Start: 708A Time Finished: 708A

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- L

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 43.40 feet Time: 105p

Depth to Water: 32.00 feet

Height of Water Column (L): 11.40 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>124p</u>	<u>13.29 mS/cm</u>	<u>24.7°C</u>	<u>6.89</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 125p Time Finished: 125p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- M

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 43.70 feet Time: 2:10 p

Depth to Water: 40.12 feet ←

Height of Water Column (L): 358 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>107 p</u>	<u>11.32 mscm</u>	<u>25.5 °C</u>	<u>7.26</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 109 p Time Finished: 109 p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- N

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 41.70 feet Time: 216p

Depth to Water: 38.20 feet ←

Height of Water Column (L): 3.50 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1259p</u>	<u>14.65 mS/cm</u>	<u>25.6 °C</u>	<u>7.18</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 100p Time Finished: 100p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- 0

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 43.80 feet Time: 155 p

Depth to Water: 35.12 feet

Height of Water Column (L): 8.68 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1227</u>	<u>14.42 mscm</u>	<u>25.0 °C</u>	<u>7.08</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1228 p Time Finished: 1228 p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- P

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 47.80 feet Time: 150p

Depth to Water: 41.63 feet ←

Height of Water Column (L): 6.17 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1231p</u>	<u>1487 mS/cm</u>	<u>70.2</u> FMS pH	<u>25.1</u> °C	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1232p Time Finished: 1232p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Q

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 43.80 feet Time: 134p

Depth to Water: 29.02 feet

Height of Water Column (L): 14.78 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1251p</u>	<u>1560 mS/cm</u>	<u>31.3 °C</u>	<u>7.15</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1252p Time Finished: 1252p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 45.30 feet Time: 1258p

Depth to Water: 41.29 feet ←

Height of Water Column (L): 4.01 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>127p</u>	<u>1049 mS/cm</u>	<u>23.9 °C</u>	<u>7.28</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 128p Time Finished: 128p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 47.70 feet Time: 115p

Depth to Water: 43.71 feet ←

Height of Water Column (L): 3.99 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>119p</u>	<u>13.16 mS/cm</u>	<u>25.5 °C</u>	<u>7.20</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 121p Time Finished: 121p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-T

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 47.80 feet Time: 141p

Depth to Water: 34.73 feet

Height of Water Column (L): 13.07 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1243p</u>	<u>1584 mS/cm</u>	<u>27.8 °C</u>	<u>7.18</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1245p Time Finished: 1245p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-U

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm sunny

Well Information:

Total Well Depth: 47.60 feet Time: 157p

Depth to Water: 37.59 feet ←

Height of Water Column (L): 10.01 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1239p</u>	<u>15.60 mS/cm</u>	<u>25.5 °C</u>	<u>7.03</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1241p Time Finished: 1241p

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-√

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool clear

Well Information:

Total Well Depth: 47.70 feet Time: 727A

Depth to Water: 31.51 feet

Height of Water Column (L): 16.19 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>728A</u>	<u>12.74 mS/cm</u>	<u>20.8 °C</u>	<u>7.30</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 729A Time Finished: 729A

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-W

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 50.00 feet Time: 153p

Depth to Water: 30.76 feet

Height of Water Column (L): 19.24 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: I-X

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 5000 feet Time: 1226p

Depth to Water: 24.72 feet

Height of Water Column (L): 25.28 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-Y

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-4-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 35.00 feet Time: 100p

Depth to Water: 25.80 feet

Height of Water Column (L): 9.20 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS

Bottles: 5 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-Z

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Eric Crawford, Keinan Pate Date: 2-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cool, clear

Well Information:

Total Well Depth: 37.00 feet Time: 7:16

Depth to Water: 27.05 feet

Height of Water Column (L): 9.95 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>7:17A</u>	<u>7.69 mS/cm</u>	<u>22.2°C</u>	<u>7.28</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 7:18A Time Finished: 7:18A

Analyses: pH / CLO4 / Sterile CLO4 / CR / TDS
Bottles: 5 Bottles

Comments:



Letter of Transmittal

Attention: John Pekala Date: July 11, 2013
Senior Manager
Environ International Corp.
510 Fourth St.
Henderson, NV 89015

Project:

2013 2nd Quarter Groundwater Monitoring

Enclosed:

1 copy of Field Data Letter Report

Remarks:

John,

The enclosed Quarterly Groundwater Monitoring Report with supporting documents is provided for your records.

Signature:

A handwritten signature in black ink, appearing to read "Steve Kubacki".

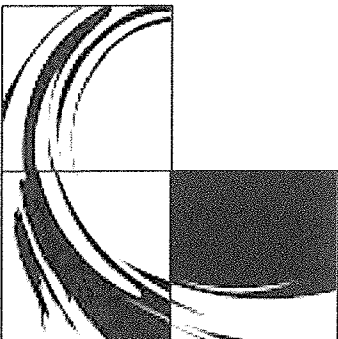
Steve Kubacki
Veolia Water NA



**Second Quarter
Well Monitoring**

**Nevada Environmental
Response Trust
Henderson, Nevada**

May 6, 2013 thru May 25, 2013



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Field Data Letter Report

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Field Data Letter Report

1 INTRODUCTION

Nevada Environmental Response Trust (NERT) contracts with Veolia Water North America West LLC. (VWNA) to conduct groundwater sampling and analysis at their Chemical facility, located at 510 Fourth Street, in Henderson, Nevada. The work described herein represents the second quarter groundwater sampling event for 2013. The work was conducted in accordance with the Sampling and Analysis Work plan, submitted to Tronox January 9, 2004.

VWNA has five staff members trained to assist the quarterly well monitoring events. VWNA monitoring team meets twice prior to the sampling event to discuss all issues associated with this project and to review the status of action items noted in the first meeting. Sampling and laboratory equipment needs, time tables and well site schedules are reviewed. Samples and coolers are checked to ensure that there are no missing bottles.

1.1 SCOPE OF SAMPLING EVENT

This sampling effort included the following tasks:

- ◆ Soundings of the pumping water levels in 23 interceptor wells.
- ◆ Soundings of the water levels in 7 interceptor wells
- ◆ Collection of groundwater samples from 23 interceptor wells.
- ◆ Soundings of water levels in 202 monitoring wells.
- ◆ Collection of groundwater samples from 163 monitoring wells.
- ◆ Collection of groundwater samples from 16 pumping wells.
- ◆ Collection of water levels in 5 buddy wells.

Analysis of samples collected from the interceptor and monitoring wells, range from Perchlorate (CLO₄), Total Chromium (Cr), Hexavalent Chromium (CRVI), pH, Specific Conductance (EC), Total Dissolved Solids (TDS), Nitrate-N (NO₃), Chlorate (CLO₃) and NPDES list for well M-10, (Up Well). CR, MN, FE, B, Ammonia, TIN, Nitrate-Nitrite as N, and Chloide.

Groundwater samples were shipped daily to TestAmerica (TA) for analysis, in Irvine, California. TA is certified by the State of Nevada.

The scope of this assignment also included compiling the water level and analytical data presented in this report. Data are presented in tabular form.

2 FIELD ACTIVITIES

VWNA conducted the field activities associated with this quarterly sampling event between Monday May 6th and Thursday, May 23rd, 2013. Activities included the sounding of “pumping water” levels in the interceptor wells, sounding the “static water” level in the monitoring wells and sampling of both the interceptor and monitoring wells. Prior to each quarter, an inventory list was issued to Environ and their consultants for review and comment. Sampling was conducted according to their specifications.

Sherri Lane and Keenan Pate were responsible for sample collection and recording all pertinent data on sample bottles. Michele Brown supervised the groundwater sampling activities. She is responsible for executing all work elements related to the groundwater sampling program, including laboratory equipment maintenances and calibration, fieldwork, documenting field activities, maintaining field notes and photographs (when applicable), and providing the Operations Manager with information concerning implementation of the sampling plan.

VWNA maintained records of daily events and pertinent sampling data of each well on a field log sheet and addendum data in a bound log book. Log sheet entries included personnel onsite, weather conditions, water levels, activities conducted, sampling times, pH, EC, temperature and other significant field information.

2.1 Groundwater Level Soundings

VWNA sounded pumping water levels in 23 interceptor wells. The static water readings were taken in Interceptor wells I-AA, I-AB, I-AD, I-AC, I-W, I-X and I-Y. In addition to the

interceptor wells, static water levels in 202 monitoring wells were taken. There were thirty-one (31) wells where only static water levels were taken. The following are the 38 wells:

ART-1A	ART-2A	ART-3A	ART-7	ART-8A	M-55	M-56	M-58	M-60	M-78	M-93
M-166	M-167	M-168	M-169	M-170	M-172	M-173	M-174	M-175	M-176	M-177
MW-K4	PC-76	PC-78	PC-80	PC-81	PC-83	PC-85	PC-87	PC-88		

The water levels were sounded to the nearest 0.01 foot using an electronic well sounder.

2.2 Equipment Cleaning Procedures

During the sounding of water levels, the equipment was rinsed with 3 to 4 gallons of de-ionized water after use at each well. The rinse water was collected in a polyethylene container and transported to GW-11 for treatment.

3.0 GROUNDWATER SAMPLING

3.1 Sampling Locations

The following presents the identification of wells sampled.

3.1.1 Interceptor Wells

I-AR	I-B	I-C	I-D	I-E	I-F	I-G	I-H	I-I	I-J	I-K
I-L	I-M	I-N	I-O	I-P	I-Q	I-R	I-S	I-T	I-U	I-V
I-Z										

3.1.2 Pumping Wells

ART-1	ART-2	ART-3A	ART-4A	ART-7A	ART-8	ART-9	PC-99R2/R3	PC-115R	C-116R	PC-117
PC-118	PC-119	PC-133								

3.1.3 Monitoring Wells

ARP-1	ARP-2A	ARP-3A	ARP-4A	ARP-5A	ARP-6B	ARP-7	ART-7B	M-2A	M-5A	M-6A
M-7B	M-10	M-11	M-12A	M-13	M-14A	M-19	M-21	M-22A	M-23	M-25
M-31A	M-35	M-36	M-37	M-38	M-44	M-48A	M-52	M-57A	M-68	M-69

M-70	M-71	M-72	M-73	M-74	M-75	M-76	M-77	M-79	M-80	M-81A
M-83	M-92	M-95		M-97	M-115	M-131	M-135	MW-K4	MW-K5	PC-18
PC-53	PC-55	PC-56	PC-58	PC-59	PC-60	PC-62	PC-68	PC-86	PC-90	PC-91
PC-92	PC-94	PC-97	PC-98R	PC-101R	PC-103	PC-122	PC-123	PC-124	PC-125	PC-126
PC-127	PC-128	PC-129	PC-130	PC-131	PC-132	PC-135A	PC-136	PC-142	PC-143	PC-144
PC-145	PC-148	PC-149	PC-150	PC-37	PC-54	PC-71	PC-72	PC-73	H-28A	AA-01
H-11	H-48	H-58A	HM-2	HMW-13	HMW-14	HMW-15	HMW-16	M-64	M-65	M-66
M-67	M-123	M-124	M-125	M-126	M-128	M-133	M-134	M-136	M-137	M-138
M-139	M-141	M-142	M-144	M-145	M-146	M-147	M-148A	MC-3	MC-6	MC-7
MC-29	MC-45	MC-50	MC-51	MC-53	MC-65	MC-69	MC-93	MC-97	MW-16	PC-2
PC-4	PC-21A	PC-24	PC-28	PC-31	PC-40	PC-50	PC-64	PC-65	PC-66	PC-67
PC-74	PC-77	PC-79	PC-82	PC-96	PC-107	PC-108	PC-110	PC-134A	PC-137	ART-6
PC-120	PC-121									

4.0 SAMPLING TECHNIQUES

4.1 Interceptor Wells

All interceptor wells were sampled using dedicated sampling ports. At the beginning of sampling each well or line, personnel wore a new pair of clean nitrile or latex gloves.

The sampling port was opened to drain any stagnant water from piping and valves. This water is captured and containerized. All captured water is off-loaded at GW-11 for onsite treatment.

Following the purging of the sample port, a “water quality” sample was collected for analysis of Perchlorate, Total Chromium, pH, and TDS. VWNA also recorded the “*field*” temperature, pH, and conductivity as well as the pumping water level. The “*field*” parameters are provided in Table 1.

4.2 Monitoring Wells

Monitoring wells were purged before sampling to assure that each sample was collected from fresh formation water.

One hundred fifty-one (151) wells were purged and sampled, using the 12 volt submersible pump. Three wells (3), M-10, M-13, and M-11, were purged with the “Ready Flo 2” with variable pump flow control. Two (2) wells M-36, and M-38 were purged and sampled with a dedicated bailer. Six (6) wells were sampled using a non dedicated disposable bailer, ART-6, H-11, H-28A, PC-74, M-77, and PC-4. M-99 and M-6A were not purged due to location and/or water column level but samples were collected. Hand bailing was done as a result of only

needing to purge less than 3 gallons of water, if there was an insufficient amount of water in the well casing to use a pump or due to the location of the well.

Samples for both the interceptor and monitoring wells were collected in appropriate containers supplied by TestAmerica and analyzed for the specific required analysis of the well. The bottles were filled with minimal aeration, using laminar flow.

The samples were labeled, packaged, stored, and transported using the procedures outlined in the work plan for well samples. .

4.3 Problems Encountered

The following wells were not located:

HSW-1, M-143, PC-95 and BEC-1

The following wells were found to be dry:

DM-4, DM-5, M-98, M-100, M-101, M-96 M-147, AA-11 and PC-1

The following wells needed the sample diluted 50/50 with deionized water in order to get a correct conductivity reading (pH and temperature readings were collected before sample was diluted):

MC-45, MC-51, MC-69 and PC-40.

There is no way to collect data or sample M-33 and M-32 as they are in the reclamation area and are exposed standing approximately 20 feet into the air.

M-132 has something obstructing the well at approximately 4.7 feet down in the casing. No data or sample was collected.

M-29 was not sampled due to safety reasons.

The following wells have had 10 foot extensions added to their length. The 10feet were added to the TWD provided in order to calculate the column volume:

PC-56, PC-58, Pc-59, PC-60, PC-62, PC-68, PC-80, PC-81, PC-82, PC-83, PC-85, PC-86, and PC-87. PC-108 has approximately a 4 foot extension.

MW-K4 has an obstruction in the well. DTW reading was obtained. Sample could not be collect using the pump or a bailer. The obstruction kept the devices from descending into the water column.

4.4 Equipment Cleaning Procedures

The deionized water is changed each morning so the rinsing water is fresh. Non-dedicated sampling equipment has been replaced by disposable bailers. Conductivity/pH meter probe was thoroughly rinsed with de-ionized water after each sample was analyzed. Pumping equipment was purged with deionized water to flush and clean before leaving to sample at the next location.

5.0 QUALITY CONTROL

Quality control (QC) procedures include collection and analysis of QC duplicate samples, equipment and field blanks. The analytical laboratory is also required to meet specific QA/QC requirements for surrogate recovery, MS/MSD recovery and RPDs, and LCS recoveries.

Duplicate SC readings were conducted at one well each day to insure the accuracy of the Hanna field probe.

5.1 QC Duplicate Samples

QC duplicate samples were collected during the sampling event to evaluate the precision and accuracy of analytical data. The QC duplicates were collected, packaged, and transported in the same manner as the primary sample, but assigned a different identification number.

Ten (10) duplicates were collected from the wells, representing at least 5 percent of the samples collected. The duplicate samples were collected from the following wells: M-146, M-144,

M-48A, PC-21A, PC-37, M-23, M-65, M-35, M-13 and M-10. They were analyzed for the same parameters as the primary samples. TestAmerica was not informed of the identity of these "blind" samples.

5.2 Equipment Blanks

Four equipment blanks were taken this quarter. The equipment blanks were collected on, May 8th, 9th, 14th and 15th, 2013. One set of three bottles for each day for a total of twelve bottles. This was done to evaluate the adequacy of cleaning procedures used by field personnel during this sampling event.

5.3 Field Blanks

Two field blank samples were collected, one on May 7th and one on May 14th, 2013. Two sets of three bottles were sent to the laboratory for analysis to evaluate the integrity of the de-ionized water used to clean and purge the sampling equipment.

6.0 ANALYTICAL PROCEDURES

The following designates the parameter, analytical method and method reporting limits for groundwater. Some of the following analysis may not have been performed for this reporting period.

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>MRL</u>
CLO4	Method 314.0	4.0 µg/L
Total Chromium	Method 200.7	0.01 mg/L
Hexavalent Chromium (CRVI)	Method 218.6 ORGFM	0.005 mg/L,
pH	Method 150.1	01 unit
TDS	Method 2540C Calcd	10 mg/L
Chloride	Method 300 ORGFM 28D	80.0 mg/L
Iron (ICAP)	Method 200.7	0.005 mg/L
Manganese (ICAP)	Method 200.7	100 µg/L
Sodium (ICAP)	Method 200.7	5 mg/L
Phenols, Total	Method 420.1, 420	.010 mg/L

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>MRL</u>
Sulfate	Method 300 ORGFM 28D	80 mg/L
Total Organic Carbon, TOC	Method 5310C	unknown
Total Organic Halogen, TOX	Method 9020B - 9020	unknown
Boron	Method 200.7	.10 mg/L
Conductance	Method 2510B - 2510	2 μ ohms/cm
Ammonia Nitrogen	Method 300 ORGFM	0.050 mg/L
Nitrate Nitrogen	Method 300 ORGFM	2.0 mg/L
Copper	Method 300 ORGFM	2.0 μ g/L
Chlorate	Method 300.1B 28D	

6.1 Field Equipment Calibration

Prior to the start of each day's events, field laboratory equipment was calibrated. A Hanna HI 98130 water proof pH, EC/TDS and temperature field probe was calibrated and measurements recorded on daily laboratory calibration maintenance forms, which have been provided. Each day a duplicate EC reading was taken at random wells to ensure the calibration of the meter was holding. The duplicate EC readings were taken from wells PC-67, PC-135A, M-95, M-66, M-115, M-22A, M-11 and M-12A

SUMMARY RESULTS

7.1 Groundwater Level Soundings

A summary of water level soundings collected for the interceptor and monitoring wells are presented in Table 1.

Pumping water level in interceptors wells. (Measured in feet from below the top of casing.)

LOW

43.70 (I-E)

HIGH

23.62 (I-I)

Static water level monitoring wells. (Measured in feet from below the top of casing.)

LOW

72.62 (H-11)

HIGH

5.49 (PC-97)

7.2 Summary of Field Activities

7.2.1 Interceptor Wells

CLO4, Cr, TDS, pH

23 interceptor wells

7.2.2 Monitoring Wells

163 Monitoring wells sampled for sets that may have included: pH, TDS, CLO4, CR, CRVI, NO3 and CLO3

7.2.3 QC Duplicate Samples (Measured for the same analyses as the primary samples.)

M-10 (Measured for pH, CR, CRVI, CLO4, TDS, NO3, and CLO3)

M-146, M-144, PC-37, M-65 and M-35 (Measured for Total Cr., pH, CLO4 and TDS)

M-48A, PC-21A, M-23 and M-13 (measured for pH, TDS, CR, CLO4, NO3 and CLO3)

7.2.4 Equipment Blanks

Four equipment blanks were analyzed for CLO4, Total Cr., Hex Cr., pH, and TDS.

7.2.5 Field Blank

Two field blanks were analyzed for CLO4, Total Cr., Hex Cr., pH and TDS.

Weather	Hot/ Breezy
Total # of wells visited	252
Total water samples collected	203
Total Wells measured DTW only	38
Total Duplicate Samples (5%)	10
Total Equipment Blanks	4
Total Field Blanks	2
Total Wells hand bailed	10
Total Wells considered DRY	9
Total Wells not accessible	5
Total Wells damaged	1
Total wells not found	4
Total wells not sampled due to safety	1



Table of Well Gauging Data

This Section Contains:

- Daily Maintenance & Calibration Log
- Table 1 Well Inventory
- Chain-of-Custody & Bottle Order Forms



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-6-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>6.99</u>	2) <u>8.02</u>	<u>330A/MB</u>
Buffer Temperature	3) <u>23.3</u>	3) <u>24.0</u>	
changed buffers			
yes <input checked="" type="checkbox"/>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>1264</u>	<u>340A/MB</u>
Calibration Value	1) <u>1290</u>	
Standard Temp	1) <u>23.5</u>	
changed standards		
yes <input checked="" type="checkbox"/>		
please check		

Duplicate EC reading Well # PC-67

1st Reading	2nd Reading
EC <u>15.87</u> TEMP <u>24.1</u> ^{oC}	EC <u>15.89</u> TEMP <u>24.1</u> ^{oC}
<u>mScm</u>	<u>mScm</u>

All equipment was rinsed and purged with Deionized water after each well.

Date 5-6-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-7-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>7.0</u>	2) <u>8.02</u>	<u>355A/MB</u>
Buffer Temperature	3) <u>23.0</u>	3) <u>23.1</u>	
changed buffers			
yes <u>X</u>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>1239</u>	<u>350A/MB</u>
Calibration Value	1) <u>1288</u>	
Standard Temp	1) <u>23.3</u>	
changed standards		
yes <u>X</u>		
please check		

Duplicate EC reading Well # PC-135A

1st Reading

2nd Reading

EC 10.46 TEMP 24.5^{°C}
mS/cm

EC 10.53 TEMP 24.8^{°C}
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-7-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
 DATE 5-8-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst <u>425A/MB</u>
Calibration Value	2) <u>7.01</u>	2) <u>8.02</u>	
Buffer Temperature	3) <u>22.5</u>	3) <u>22.4</u>	
changed buffers yes _____ please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst <u>420A/MB</u>
Temp. Comp. Value	1) <u>1215</u>	
Calibration Value	1) <u>1286</u>	
Standard Temp	1) <u>22.4</u>	
changed standards yes <u>X</u> please check		

Duplicate EC reading Well # M-95

1st Reading	2nd Reading
EC <u>6.86</u> TEMP <u>24.7^oc</u> ms/cm	EC <u>6.86</u> TEMP <u>24.8^oc</u> ms/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-8-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
 DATE 5-9-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst <u>400A/MB</u>
Calibration Value	2) <u>6.98</u>	2) <u>8.02</u>	
Buffer Temperature	3) <u>22.9</u>	3) <u>23.6</u>	
changed buffers yes <input checked="" type="checkbox"/> please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst <u>355A/MB</u>
Temp. Comp. Value	1) <u>1239</u>	
Calibration Value	1) <u>1288</u>	
Standard Temp	1) <u>23.4</u>	
changed standards yes <input checked="" type="checkbox"/> please check		

Duplicate EC reading Well # M-66

1st Reading	2nd Reading
EC <u>15.42</u> TEMP <u>78.6°F</u>	EC <u>15.68</u> TEMP <u>78.5°F</u>
<u>MS/cm</u>	<u>MS/cm</u>

All equipment was rinsed and purged with Deionized water after each well.

Date 5-9-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-13-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst <u>4:20A / MB</u>
Calibration Value	2) <u>4.99</u>	2) <u>8.02</u>	
Buffer Temperature	3)	3)	
changed buffers yes <input checked="" type="checkbox"/> please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst <u>4:52a / MB</u>
Temp. Comp. Value	1) <u>1239</u>	
Calibration Value	1) <u>1281</u>	
Standard Temp	1) <u>23.3</u>	
changed standards yes <input checked="" type="checkbox"/> please check		

Duplicate EC reading

Well # M-115

1st Reading

2nd Reading

EC 3.19 TEMP 25.5^{oc}
mS/cm

EC 322 TEMP 25.4^{oc}
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-13-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-14-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst <u>445A/MB</u>
Calibration Value	2) <u>6.98</u>	2) <u>8.01</u>	
Buffer Temperature	3) <u>24.3</u>	3) <u>24.5</u>	
changed buffers yes <u>X</u> please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst <u>442A/MB</u>
Temp. Comp. Value	1) <u>12.88</u>	
Calibration Value	1) <u>12.88</u>	
Standard Temp	1) <u>24.7</u>	
changed standards yes <u>X</u> please check		

Duplicate EC reading Well # M-22A

1st Reading

2nd Reading

EC 13.57 TEMP 27.6^{cc}
mS/cm

EC 13.63 TEMP 27.3
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5/14/13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-15-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>7.01</u>	2) <u>8.02</u>	<u>4:30A / MB</u>
Buffer Temperature	3) <u>24.2</u>	3) <u>23.8</u>	
changed buffers			
yes <u>X</u>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>12.64</u>	<u>4:25a / MB</u>
Calibration Value	1) <u>1285</u>	
Standard Temp	1) <u>24.4</u>	
changed standards		
yes <u>X</u>		
please check		

Duplicate EC reading

Well # M-11

1st Reading

EC 3.55 TEMP 26.8°
mS/cm

2nd Reading

EC 3.57 TEMP 26.9°
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-15-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-16-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) <u>7.01</u>	2) <u>8.01</u>	<u>4:20A/MB</u>
Buffer Temperature	3) <u>24.6</u>	3) <u>24.9</u>	
changed buffers			
yes <input checked="" type="checkbox"/>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) <u>12.4</u>	<u>4:15A/MB</u>
Calibration Value	1) <u>1288</u>	
Standard Temp	1) <u>24.5</u>	
changed standards		
yes <input checked="" type="checkbox"/>		
please check		

Duplicate EC reading

Well # M-12A

1st Reading

2nd Reading

EC 7.53 TEMP 24.6^{oC}
mS/cm

EC 7.58 TEMP 24.8^{oC}
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-16-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD

DATE 5-21-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) 7.0	2) 8.02	725a/MB
Buffer Temperature	3) 22.2	3) 23.6	
changed buffers			
yes <input checked="" type="checkbox"/>			
please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1313	720a/MB
Calibration Value	1) 1288	
Standard Temp	1) 25.7	
changed standards		
yes <input checked="" type="checkbox"/>		
please check		

Duplicate EC reading

Well # PC-79

1st Reading

2nd Reading

EC 3.76 TEMP 25.8°
mS/cm

EC 3.82 TEMP 25.9°
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-21-13 Verified MB



DAILY MAINTENANCE AND CALIBRATION RECORD
DATE 5-22-13

HANNA FIELD PH METER

Known value	1) 7.0	1) 8.0	Time/analyst
Calibration Value	2) 7.02	2) 8.02	6/47/MB
Buffer Temperature	3) 23.4	3) 23.3	
changed buffers yes <u>X</u> please check			

HANNA FIELD EC METER

Known Value	1) 1288	Time/analyst
Temp. Comp. Value	1) 1264	6/45/MB
Calibration Value	1) 1288	
Standard Temp	1) 23.6	
changed standards yes <u>X</u> please check		

Duplicate EC reading Well # PC-110

1st Reading

2nd Reading

EC 5.76 TEMP 25.2^oC
mS/cm

EC 5.72 TEMP 25.3^oC
mS/cm

All equipment was rinsed and purged with Deionized water after each well.

Date 5-22-13 Verified MB

VEOLIA SAMPLING SIGN IN SHEET

DATE	NAME	COMPANY	SIGNATURE
5-6-13	M. Brown	VWNA	Michele Brown
5-6-13	S Jane	VWNA	Sherrie Jane
5-6-13	Mol	Yump	Mol
5-6-13	Wendy Prescott	Envirogen	Wendy Prescott
5-7-13	M Brown	VWNA	Michele Brown
5-7-13	W Prescott	Envirogen	Wendy Prescott
5-7-13	S Jane	Veolia	Sherrie Jane
5-7-13	K Pok	Veolia	Kim Pok
5-8-13	M Brown	Veolia Water	Michele Brown
5-8-13	S Jane	Veolia	Sherrie Jane
5-8-13	W Prescott	Envirogen	Wendy Prescott
5-8-13	K Pok	Veolia	Kim Pok
5-9-13	M Brown	Veolia Water	Michele Brown
5-9-13	W Prescott	Envirogen	Wendy Prescott
5-9-13	K Pok	Veolia	Kim Pok
5-13-13	M. Brown	Veolia	Michele Brown
5-13-13	W. Prescott	Envirogen	Wendy Prescott
5-13-13	S. Lane	Veolia	Sherrie Jane
5-13-13	K Pok	Veolia	Kim Pok
5-14-13	M. Brown	Veolia	Michele Brown
5-14-13	S. Lane	Veolia	Sherrie Jane
5-14-13	K Pok	Veolia	Kim Pok
5-14-13	W Prescott	Envirogen	Wendy Prescott
5-15-13	M Brown	Veolia	Michele Brown
5-15-13	W Prescott	Envirogen	Wendy Prescott
5-15-13	K Pok	Veolia	Kim Pok
5-15-13	S Lane	Veolia	Sherrie Jane
5-16-13	M Brown	Veolia	Michele Brown

TABLE 1
Well Inventory for Environ Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT. MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan
AA-01	51.50	1757.13	47.35	None	1709.78	7.23	5.16	5-7-13	544a		pH, TDS, ClO ₄
AA-11	31.40	1660.05	30.80	None	1629.25			5-19-13	606a	DRY	pH, TDS, ClO ₄
BEC-1	40.00	1732.04		None				—	—	NOT FOUND	pH, TDS, ClO ₄
DM-4	20.48 26.50	1622.47		None				5-9-13	534a	DRY	pH, TDS, Cr, ClO ₄
DM-5	23.72 26.50	1625.48		None				5-9-13	545a	DRY	pH, TDS, Cr, ClO ₄
H-11	116.00	1868.41	72.62	None	1795.79	7.06	2.02	5-14-13	954a		pH, TDS, ClO ₄
H-48	32.60	1684.29	23.65	None	1660.64	5.44	17.59	5-8-13	726a		pH, TDS, Cr, ClO ₄
H-58A	57.00	1693.43	27.56	None	1665.87	7.33	14.98	5-8-13	638a		pH, TDS, Cr, ClO ₄
HIM-2	36.60	1588	27.0	None	1561.00	7.54	5.74	5-8-13	939a		pH, TDS, ClO ₄
HIMW-13	40.00	1595.51	16.50	None	1579.01	7.80	2.26	5-7-13	100p		pH, TDS, ClO ₄
HIMW-14	40.00	1599.82	18.84	None	1582.98	7.65	3.05	5-8-13	1027a		pH, TDS, ClO ₄
HIMW-15	30.00	1611.97	11.95	None	1600.02	7.34	3.65	5-8-13	1043a		pH, TDS, ClO ₄
HIMW-16	30.00	1621.43	8.80	None	1612.62	7.56	7.79	5-7-13	1233p		pH, TDS, ClO ₄
HSW-1	24.00	1599.40	—	None				—	—	NOT FOUND	pH, TDS, ClO ₄
M-29	42.00	1806.60	—	None				—	—	NOT SAMPLED Safety Issue	pH / TDS / Cr / ClO ₄ / NO ₃ / ClO ₃
M-64	37.50	1749.76	25.60	None	1724.16	7.19	9.29	5-9-13	1107a		pH, TDS, Cr, ClO ₄
M-65	39.20	1753.91	28.0	None	1725.91	7.12	14.75	5-9-13	1136e		pH, TDS, Cr, ClO ₄
M-66	42.50	1754.24	30.10	None	1727.14	6.99	15.42	5-9-13	1155a		pH, TDS, Cr, ClO ₄

Signature Michele Brown
 Print Michele Brown

TABLE 1
Well Inventory for Environ Groundwater Sampling
Nevada Environmental Response Trust Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan
M-67	38.00	1745.91	21.45	None	1724.46	7.37	6.46	5-14-13	540a		pH, TDS, Cr, ClO ₄
M-123	55.60	1785.13	40.62	None	1744.51	7.39	17.83	5-14-13	851a		pH, TDS, ClO ₄
M-124	53.39	1787.66	36.08	None	1751.58	7.61	3.51	5-14-13	931a		pH, TDS, Cr, ClO ₄
M-125	54.00	1771.33	37.31	None	1734.02	6.97	16.67	5-14-13	1020a		pH, TDS, ClO ₄
M-126	40.00	1,759.01	34.10	None	1724.91	7.17	17.34	5-13-13	723a		pH, TDS, Cr, ClO ₄
M-128	58.60	1783.80	36.34	None	1747.46	7.69	3.88	5-14-13	911a		pH, TDS, ClO ₄
M-132	90.00	1,744.27	—	None	—	—	—	5-14-13	834a	damaged NO DATA	pH, TDS, Cr, ClO ₄ * * *
M-133	70.00	1,743.62	27.43	None	1688.76	7.44	6.54	5-14-13	754a		pH, TDS, Cr, ClO ₄
M-134	70.00	1,752.14	32.65	None	1719.45	7.66	3.76	5-13-13	618a		pH, TDS, Cr, ClO ₄
M-136	90.00	1,751.87	28.71	None	1723.16	7.74	1.92	5-13-13	536a		pH, TDS, Cr, ClO ₄
M-137	75.00	1847.54	55.30	None	1792.24	7.69	2.60	5-16-13	736e		pH, TDS, Cr, ClO ₄
M-138	65.00	1846.35	53.75	None	1792.60	7.66	3.59	5-16-13	759a		pH, TDS, Cr, ClO ₄
M-139	60.00	1813.47	33.96	None	1779.51	7.72	3.93	5-15-13	1050a		pH, TDS, Cr, ClO ₄
M-140	43.00							5-16-13		PUMP OFF * *	pH, TDS, Cr, ClO ₄
M-141	48.30	1797.16	40.46	None	1756.70	7.36	7.64	5-15-13	931a		pH, TDS, Cr, ClO ₄
M-142	45.86	1773.55	30.35	None	1743.20	7.57	3.33	5-14-13	1071a		pH, TDS, Cr, ClO ₄
M-143	45.00	1813.33	—	None				5-16-13		NOT FOUND * *	pH, TDS, Cr, ClO ₄
M-144	45.00	1813.31	37.22	None	1776.09	7.61	4.01	5-16-13	547a		pH, TDS, Cr, ClO ₄

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* * - No holes large enough from top for smallest probe to
 20% go into to collect DTW reading

* - well was in area where large, lined, dug out containment is
 now. Area fenced off NO ACCESS TO SEARCH AREA

* * * - something blocking well ~ 10' deep

TABLE 1
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M-145	60.00	1812.23	36.51	None	1775.72	7.15	3.54	5-15-13	112a		pH, TDS, Cr, ClO ₄
M-146	50.00	1812.65	33.95	None	1778.70	7.53	5.42	5-16-13	627a		pH, TDS, Cr, ClO ₄
M-147	40.00	1781.06	35.08	None	1745.98	7.44	4.95	5-16-13	701a		pH, TDS, Cr, ClO ₄
M-148A	52.30	1800.04	44.99	None	1755.05	7.50	5.52	5-15-13	904a		pH, TDS, Cr, ClO ₄
MC-3	43.00	1723.87	33.89	None	1691.98	7.24	18.44	5-9-13	902a		pH, TDS, ClO ₄
MC-6	42.00	1712.26	27.96	None	1684.30	7.27	19.86	5-9-13	647a		pH, TDS, ClO ₄
MC-7	39.00	1718.76	27.29	None	1691.47	7.14	7.42	5-9-13	634a		pH, TDS, ClO ₄
MC-29	50.00	1723.45	35.90	None	1687.55	7.08	34.02	5-9-13	919a		pH, TDS, ClO ₄
MC-45	34.00	1710.96	27.89	None	1683.07	7.15	23.58	5-9-13	706a		pH, TDS, ClO ₄
MC-50	49.00	1713.40	29.03	None	1684.37	7.08	23.30	5-9-13	728a		pH, TDS, ClO ₄
MC-51	44.00	1715.89	30.40	None	1685.49	7.11	23.54	5-9-13	750a		pH, TDS, ClO ₄
MC-53	38.00	1715.26	31.0	None	1684.26	7.11	19.37	5-9-13	809a		pH, TDS, Cr, ClO ₄
MC-65	41.00	1705.47	32.78	None	1672.69	6.93	15.21	5-9-13	821a		pH, TDS, Cr, ClO ₄
MC-69	44.00	1718.81	31.35	None	1687.46	7.20	22.98	5-9-13	844a		pH, TDS, ClO ₄
MC-93	42.00	1719.34	32.61	None	1686.73	7.18	12.61	5-9-13	827a		pH, TDS, ClO ₄
MC-97	41.00	1719.30	35.65	None	1683.65	7.07	19.65	5-9-13	936a		pH, TDS, ClO ₄
MW-16	40.00	1,754.81	35.87	None	1718.94	7.28	13.47	5-13-13	739a		pH, TDS, Cr, ClO ₄

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan
PC-1	27.67 30.00	1599.13	IN FIELD	None				5-7-13	1123a	DRY	pH, TDS, Cr, ClO ₄
PC-2	30.00	1597.07	28.16	None	1568.91	7.61	6.54	5-7-13	1031a		pH / TDS / Cr / ClO ₄ / NO ₃ / ClO ₃
PC-4	43.00	1600.42	35.36	None	1565.06	7.58	8.38	5-7-13	1107a		pH / TDS / Cr / ClO ₄ / NO ₃ / ClO ₃
PC-21A	34.40	1724.52	31.40	None	1693.12	7.39	9.86	5-8-13	1158a		pH / TDS / Cr / ClO ₄ / NO ₃ / ClO ₃
PC-24	30.20	1633.48	20.81	None	1612.67	7.41	12.78	5-6-13	716a		pH, TDS, Cr, ClO ₄
PC-28	20.00	1650.85	11.40	None	1669.45	7.56	6.80	5-6-13	820a		pH, TDS, Cr, ClO ₄
PC-31	50.00	1657.86	10.0	None	1647.86	7.50	7.50	5-6-13	833a		pH, TDS, Cr, ClO ₄
PC-40	55.20	1679.23	20.72	None	1658.51	7.20	22.32	5-8-13	612a		pH, TDS, Cr, ClO ₄
PC-50	42.00	1633.46	12.23	None	1621.23	7.21	13.74	5-6-13	757a		pH, TDS, Cr, ClO ₄
PC-64	19.50	1675.29	9.84	None	1665.45	7.69	7.61	5-6-13	857a		pH, TDS, Cr, ClO ₄
PC-65	19.10	1675.21	9.70	None	1665.51	7.62	6.48	5-6-13	950a		pH, TDS, Cr, ClO ₄
PC-66	27.30	1673.53	12.92	None	1660.61	7.56	7.23	5-6-13	932a		pH, TDS, Cr, ClO ₄
PC-67	36.00	1673.82	13.38	None	1660.44	7.35	15.87	5-6-13	911a		pH, TDS, Cr, ClO ₄
PC-74	50.00	1565.34	11.68	None	1553.66	7.56	5.89	5-15-13	650a		pH, TDS, ClO ₄
PC-76	20.50	1565.10	11.78	None	1553.32			5-15-13	648a		DTW Only
PC-77	40.00	1566.90	7.69	None	1559.21	7.43	5.48	5-15-13	550a		pH, TDS, ClO ₄
PC-78	22.00	1566.72	6.72	None	1560.0			5-15-13	546a		DTW Only
PC-79	45.00	1,564.06	18.25	None		7.27	3.76	5-21-13	916a		pH, TDS, Cr, ClO ₄

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT. MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan
PC-80	30.00	1,564.18	18.52	None				5-21-13	913a		DTW Only
PC-81	15.00	1,563.96	18.59	None				5-21-13	912a		DTW Only
PC-82	57.50	1,559.15	17.13	None		7.37	3.18	5-21-13	940a		pH / TDS / ClO4 / NO3 / ClO3
PC-83	31.00	1,559.22	16.89	None				5-21-13	906a		DTW Only
PC-85	43.00	1553.65	13.61	None				5-20-13	854a		DTW Only
PC-87	13.00	1554.00	13.57	None				5-20-13	850a		DTW Only
PC-88	50.50	1551.01	6.60	None	1544.91			5-22-13	938a		DTW Only
PC-96	39.50	1552.57	6.96	None	1545.61	7.48	4.40	5-15-13	704a		pH, TDS, ClO4
PC-107	18.00	1616.94	9.52	None	1607.42	7.40	6.01	5-8-13	1003a		pH, TDS, ClO4
PC-108	45.00	1584.81	14.48	None		7.26	3.50	5-22-13	1048a		pH, TDS, ClO4
PC-110	37.00	1594.47	15.18	None		7.22	5.76	5-22-13	1113a		pH, TDS, ClO4
PC-111										Destroyed	pH, TDS, Cr, ClO4
PC-134A	69.70	1618.57	29.53	None	1589.04	7.39	10.63	5-7-13	1143a		pH, TDS, Cr, ClO4
PC-137	73.70	1618.45	32.14	None	1586.31	7.58	3.28	5-7-13	949a		pH, TDS, Cr, ClO4
DUPLICATES											
VD-1	M-146 PC-82		33.95		1778.70	7.53	5.42	5/6-13	6a7a		pH, TDS, ClO4, NO3, Cr
VD-2	M-144 PC-110		37.22		1776.09	7.61	4.01	5/6-13	547a		pH, TDS, ClO4, Cr
VD-4	PC-21A		31.40		1693.12	7.39	9.86	5-8-13	1158a		pH, TDS, ClO4, Cr, NO3, ClO3
VD-7	M-65		28.0		1725.91	7.12	14.75	5-9-13	1136a		pH, TDS, Cr, ClO4

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TABLE 1
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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan
OTHER SAMPLES COLLECTED											
Equipment Blank	EB-3							5-14-13	1220p		pH, TDS, CR, CLO4, CRVI
Equipment Blank	EB-4							5-15-13	1155a		pH, TDS, CR, CLO4, CRVI
Field Blank	FB-2							5-14-13	1202p		pH, TDS, CR, CLO4, CRVI

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
ARP-1	44.2	1613.32	27.46		1588.86			5-23-13	1121a		pH, TDS, Cr, ClO ₄
ARP-2A	54	1614.18	25.94		1588.24			5-23-13	1003a		pH, TDS, Cr, ClO ₄
ARP-3A	41	1614.67	27.43		1587.24			5-23-13	945a		pH, TDS, Cr, ClO ₄
ARP-4A	33	1615.47	29.43		1586.04			5-23-13	858a		pH, TDS, Cr, ClO ₄
ARP-5A	38	1616.10	32.91		1583.19			5-23-13	841a		pH, TDS, Cr, ClO ₄
ARP-6B	43	1615.56	32.38		1583.18			5-23-13	826a		pH, TDS, Cr, ClO ₄
ARP-7	39.2	1613.20	30.43		1582.77			5-23-13	811a		pH, TDS, Cr, ClO ₄
ART-1	56	1614.47	35.70		1578.77			5-7-13	855a	pumping	pH, TDS, Cr, ClO ₄
ART-1A	56	1614.40	24.55		1589.85			5-7-13	858a		DTW Only
ART-2	56	1617.10	28.15		1588.95			5-7-13	846a	pumping	pH, TDS, Cr, ClO ₄
ART-2A	58	1616.81	27.23		1589.58			5-7-13	849a		DTW Only
ART-3	47	1617.93	31.21		1583.72			5-7-13	816a	pumping	pH, TDS, Cr, ClO ₄
ART-3A	55	1617.60	35.65		1582.24			5-7-13	819a		DTW Only
ART-4	46	1617.39						5-7-13	807a	*	pH, TDS, Cr, ClO ₄
ART-4A	46	1617.46	42.19		1575.27			5-7-13	812a	pumping	DTW Only
ART-6	36	1615.19	30.06		1585.13			5-7-13	905a		pH, TDS, Cr, ClO ₄
ART-7	38.9	1615.37	28.33		1587.04			5-7-13	921a		DTW Only
ART-7A	40	1614.78	28.80		1585.98			5-7-13	924a	pumping	DTW Only
ART-7B	50	1619.62	35.42		1584.20			5-22-13	1720p		pH, TDS, Cr, ClO ₆

* Pump + hose sitting on top of well casing - not able to get DTW reading

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TABLE 1
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ART-8	50.5	1617.66	33.53		1584.13			5-7-13	840a	pumping	pH, TDS, Cr, ClO ₄
ART-8A	54	1617.10	28.22		1588.88			5-7-13	844a		DTW Only
ART-9	43	1614.90	35.95		1578.95			5-7-13	912a	pumping	pH, TDS, Cr, ClO ₄
L-635	36.5		—					5-23-13	120P	NO ACCESS	
L-637	37.5		—					5-23-13	120P	NO ACCESS	
M-2A	47.57	1781.16	39.25		1741.91	7.38	11.13	5-13-13	1045a		pH, TDS, Cr, ClO ₄
M-5A	50.00	1751.80	37.45		1741.35	7.20	17.09	5-16-13	858a		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-6A	46.00	1733.19	38.14		1695.05	7.52	11.53	5-16-13	1007a		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-7B	55.00	1732.83	35.39		1697.44	7.46	10.83	5-16-13	833a		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
M-10	69.45	1836.21	47.42		1788.79	7.36	3.39	5-14-13	1217P		pH / CR6 / Cr / ClO ₄ / TDS / NO3 / CLO3 +NPDES list
M-11	58.00	1815.53	42.45		1773.08	8.17	3.55	5-15-13	1200P		pH / TDS / Cr / CRVI / ClO4 / NO3 / CLO3
M-12A	50.00	1812.76	40.12		1772.64	8.07	7.53	5-16-13	1118a		pH / TDS / Cr / CRVI / ClO4 / NO3 / CLO3
M-13	54.76	1814.89	44.65		1770.24	7.39	3.84	5-15-13	104P		pH, TDS, Cr, ClO ₄ , NO3, CLO3
M-14A	42.40	1760.93	31.69		1729.24	7.52	4.68	5-13-13	901a		pH, TDS, Cr, ClO ₄
M-19	41.20	1766.77	33.83		1732.94	7.43	6.33	5-13-13	1119a		pH, TDS, Cr, ClO ₄
M-21	44.74	1792.07	40.33		1751.74	7.30	4.16	5-15-13	1023a		pH, TDS, Cr, ClO ₄
M-22A	36.92	1759.46	29.24		1730.22	7.25	13.57	5-14-13	1101a		pH, TDS, Cr, ClO ₄
M-23	44.47	1720.35	32.90		1687.45	7.51	5.57	5-9-13	952a		pH, TDS, Cr, ClO ₄ , NO3, CLO3

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M-25	41.47	1759.93	30.70		1729.23	7.28	9.51	5-13-13	846a		pH, TDS, Cr, ClO4, NO3, ClO3
M-31A	55.00	1796.87	43.90		1752.97	7.89	1.13	5-15-13	949a		pH, TDS, Cr, ClO4
M-33	46.78	1800.29	—					5-15-13		NO Access	pH, TDS, Cr, ClO4
M-32			—					5-15-13		NO Access	
M-35	39.70	1772.78	30.40		1742.38	7.42	5.05	5-13-13	1102a		pH, TDS, Cr, ClO4
M-36	37.85	1759.82	30.91		1728.91	7.08	16.84	5-14-13	1119a		pH, TDS, Cr, CRVI, ClO4, NO3, ClO3
M-37	37.18	1761.06	30.13		1730.93	7.05	8.79	5-13-13	832a		pH / TDS / Cr / Cr6 / ClO4
M-38	36.82	1759.73	29.96		1729.77	7.21	16.39	5-14-13	1122a		pH / TDS / Cr / Cr6 / ClO4
M-44	37.65	1698.31	23.40		1674.91	7.54	9.67	5-8-13	1238p		pH / TDS / Cr / Cr6 / ClO4
M-48A	40	1718.36	29.18		1689.18	7.50	4.56	5-8-13	1219p		pH, TDS, Cr, ClO4, NO3, ClO3
M-52	47.38	1801.92	39.43		1762.49	7.53	6.39	5-15-13	1004a		pH, TDS, Cr, ClO4
M-55	45.00	1750.88	25.43		1725.45	—	—	5-6-13	1148a		DTW Only
M-56	40.00	1750.83	26.91		1723.92	—	—	5-6-13	1205p		DTW Only
M-57A	42.40	1753.44	28.86		1724.58	7.56	4.15	5-13-13	708a		pH, TDS, Cr, ClO4
M-58	45.00	1751.25	29.58		1721.67	—	—	5-6-13	132p		DTW Only
M-60	43.00	1750.94	27.74		1723.20	—	—	5-6-13	1244p		DTW Only
M-64	38.00	1749.76	25.66		1724.16	7.19	9.29	5-9-13	1107a		pH, TDS, Cr, ClO4
M-65	40.00	1753.91	28.0		1725.91	7.12	14.75	5-9-13	1136a		pH, TDS, Cr, ClO4

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TABLE 1

Well Inventory for Groundwater Sampling

NERT Project, Henderson, Nevada

Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
M-66	43.00	1754.24	30.10		1724.14	6.99	15.42	5-9-13	1155a		pH, TDS, Cr, ClO ₄
M-67	38.00	1745.91	21.45		1724.46	7.37	6.46	5-14-13	540a		pH, TDS, Cr, ClO ₄
M-68	41.00	1750.23	25.78		1724.45	7.38	6.76	5-13-13	1138a		pH, TDS, Cr, ClO ₄
M-69	40.00	1749.75	31.30		1718.45	7.36	5.04	5-9-13	1223p		pH, TDS, Cr, ClO ₄
M-70	41.00	1748.25	32.85		1715.40	7.32	6.81	5-14-13	700a		pH, TDS, Cr, ClO ₄
M-71	43.00	1747.04	34.43		1712.61	7.07	10.87	5-14-13	714a		pH, TDS, Cr, ClO ₄
M-72	36.00	1746.49	31.44		1715.05	6.75	9.98	5-14-13	727a		pH, TDS, Cr, ClO ₄
M-73	36.00	1741.14	28.90		1712.24	7.20	8.53	5-13-13	1214p		pH, TDS, Cr, ClO ₄
M-74	39.00	1744.38	28.72		1715.66	7.39	6.97	5-13-13	1156a		pH, TDS, Cr, ClO ₄
M-75	53.90	1784.21	41.55		1742.66	7.65	5.84	5-13-13	958a		pH, TDS, Cr, ClO ₄
M-76	54.60	1785.22	38.76		1746.46	7.60	6.12	5-13-13	9133a		pH, TDS, Cr, ClO ₄
M-77	47.20	1799.61	36.10		1763.51	7.75	3.56	5-15-13	832a		pH, TDS, Cr, ClO ₄
M-78	43.60	1751.50	26.07		1725.43			5-6-13	1153a		DTW ONLY
M-79	37.60	1742.53	29.19		1713.34	7.44	5.81	5-9-13	1209p		pH / TDS / Cr / ClO ₄
M-80	43.70	1746.04	35.19		1710.85	7.66	2.70	5-14-13	623a		pH / TDS / Cr / ClO ₄
M-81A	41.60	1744.16	35.30		1708.86	7.33	6.20	5-14-13	602a		pH / TDS / Cr / ClO ₄
M-83	42.50	1742.77	30.98		1711.79	7.44	3.36	5-14-13	647a		pH, TDS, Cr, ClO ₄
M-92	48.50	1800.76	35.80		1764.96	7.79	2.60	5-9-13	1027a		pH, TDS, Cr, ClO ₄

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TABLE 1
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NERT Project, Henderson, Nevada
Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
M-93	49.00	1797.54	34.83		1762.71			5-9-13	1044a	Damaged	pH, TDS, Cr, ClO ₄
M-95	30.00	1694.09	18.24		1675.85	7.60	6.86	5-8-13	1119a		pH / TDS / Cr / Cr6 / ClO ₄
M-96	16.90	1693.52	IN Field		1677.32			5-6-13	1011a	Dry	pH, TDS, CRVI, Cr, ClO ₄
M-97	52.50	1800.85	39.25		1761.60	7.48	5.70	5-9-13	1048a		pH, TDS, Cr, ClO ₄
M-98	33.40	1731.90	IN Field					5-16-13	1017a	DRY	pH, TDS, Cr, ClO ₄
M-99	35.59	1730.74	33.09		1697.65	7.65	2.44	5-13-13	800a		pH, TDS, Cr, ClO ₄
M-100	33.81	1730.93	IN Field					5-13-13	818a	DRY	pH / TDS / Cr / Cr6 / ClO ₄
M-101	32.15	1730.81	IN Field					5-13-13	815a	DRY	pH, TDS, Cr, ClO ₄
M-115	47.50	1787.64	37.20		1750.44	7.67	3.19	5-13-13	915a		pH, TDS, Cr, ClO ₄
M-131	39.00	1754.13	31.45		1722.68	7.49	4.42	5-13-13	655a		pH, TDS, Cr, ClO ₄
M-135	39.00	1751.85	32.50		1719.35	7.51	4.68	5-13-13	609a		pH, TDS, Cr, ClO ₄
M-166	32.00	1751.09	27.41		1723.68			5-6-13	1100a		DTW Only
M-167	30.00	1749.95	24.79		1725.16			5-6-13	1125a		DTW Only
M-168	35.00	1748.46	22.61		1725.85			5-6-13	1129a		DTW Only
M-169	35.00	1750.22	24.54		1725.68			5-6-13	1136a		DTW Only
M-170	35.00	1750.66	25.15		1725.51			5-6-13	1147a		DTW Only
M-172	37.00	1750.58	25.84		1724.74			5-6-13	1200p		DTW Only
M-173	40.00	1749.88	27.83		1722.05			5-6-13	1219p		DTW Only

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M-174	28.00	1742.29	19.73		1722.56			5-16-13	1252p		DTW Only
M-175	29.00	1742.74	20.77		1721.97			5-16-13	1255p		DTW Only
M-176	30.00	1745.35	23.60		1721.75			5-16-13	112p		DTW Only
M-177	30.00	1743.23	21.29		1721.94			5-16-13	115p		DTW Only
MW-K4	50	1614.96	29.03		1585.93			5-23-13	908a		pH, TDS, Cr, ClO ₄
MW-K5	44	1598.87	31.59		1567.28			5-23-13	751a		pH, TDS, Cr, ClO ₄
PC-18	52	1618.39	28.75		1589.64			5-23-13	1140a		pH, TDS, Cr, ClO ₄
PC-53	33	1595.17	28.65		1566.52			5-23-13	740a		pH, TDS, Cr, ClO ₄
PC-55	54.9	1618.46	27.79		1590.67			5-23-13	1158a		pH, TDS, Cr, ClO ₄
PC-56	55	1568.25	22.52					5-21-13	1025a		pH, TDS, Cr, ClO ₄
PC-58	33	1567.01	23.24					5-21-13	1009a		pH, TDS, Cr, ClO ₄
PC-59	35	1567.92	20.69					5-21-13	1117a		pH, TDS, Cr, ClO ₄
PC-60	40.0	1568.38	21.71					5-21-13	1050a		pH, TDS, Cr, ClO ₄
PC-62	38.0	1567.83	19.68					5-21-13	1138a		pH, TDS, Cr, ClO ₄
PC-68	55.3	1566.97	19.61					5-21-13	1201p		pH, TDS, Cr, ClO ₄
PC-86	28.0	1553.85	13.28					5-21-13	842a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-90	15.0	1550.46	6.72		1543.74			5-22-13	941a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-91	37.0	1552.33	12.42		1539.91			5-22-13	1002a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃

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TABLE 1

Well Inventory for Groundwater Sampling
 NERT Project, Henderson, Nevada

Summary of Field Data for: 2nd Quarter Groundwater Monitoring, May 2013

WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
PC-92	22.0	1552.05	12.05		1540.00			5-22-13	1020a		pH, TDS, Cr, ClO ₄
PC-94	20.0	1548.95	13.11		1532.84			5-22-13	1137a		pH, TDS, Cr, ClO ₄
PC-95	35.0	1550.62	—			—	—	—	—	Destroyed	pH, TDS, Cr, ClO ₄
PC-97	33.5	1548.53	5.49		1543.04			5-22-13	906a		pH, TDS, Cr, ClO ₄
PC-98R	40.5	1593.35	24.23		1569.12			5-23-13	1037a		pH, TDS, Cr, ClO ₄
PC-99R2/R3	55.3	1552.48	19.90		1532.58			5-6-13	1141a	pumping	pH, TDS, Cr, ClO ₄
PC-101R	50.5	1618.04	29.66		1588.38			5-23-13	927a		pH, TDS, Cr, ClO ₄
PC-103	29.5	1599.49	23.48		1576.01			5-23-13	1023a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-115R	55.5	1554.71	12.61		1542.10			5-6-13	1147a	pumping	pH, TDS, Cr, ClO ₄
PC-116R	55.5	1552.10	15.80		1536.30			5-6-13	1132a	pumping	pH, TDS, Cr, ClO ₄
PC-117	53.0	1552.26	13.83		1538.43			5-6-13	1126a	pumping	pH, TDS, Cr, ClO ₄
PC-118	51.0	1554.53	9.93		1544.60			5-6-13	1156a	pumping	pH, TDS, Cr, ClO ₄
PC-119	47.0	1554.66								pumping	pH, TDS, Cr, ClO ₄
PC-120	47.0	1554.64								pumping	pH, TDS, Cr, ClO ₄
PC-121	38.5	1554.10	5.32		1548.78			5-6-13	109p	pump off	pH, TDS, Cr, ClO ₄
PC-122	38.0	1618.02	32.99		1585.03			5-23-13	727a	pump off	pH, TDS, Cr, ClO ₄
PC-123	34.70	1626.44	22.84		1603.60	7.16	7.98	5-6-13	439a		pH, TDS, Cr, ClO ₄
PC-124	34.60	1635.73	4.47		1626.22	7.31	10.41	5-6-13	629a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
PC-125	33.50	1635.06	23.30		1611.76	7.35	9.81	5-6-13	646a		pH, TDS, Cr, ClO ₄
PC-126	34.30	1634.33	22.20		1612.13	7.31	13.02	5-6-13	659a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-127	34.70	1632.42	18.80		1613.62	7.48	7.51	5-6-13	741a		pH, TDS, Cr, ClO ₄
PC-128	34.70	1633.36	18.51		1614.85	7.39	7.13	5-6-13	459a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-129	37.70	1633.99	18.54		1615.45	7.30	8.54	5-6-13	518a		pH, TDS, Cr, ClO ₄
PC-130	49.70	1633.21	19.21		1614.00	7.37	8.56	5-6-13	534a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-131	39.40	1633.58	10.90		1622.68	7.29	13.38	5-6-13	556a		pH, TDS, Cr, ClO ₄
PC-132	39.70	1634.84	9.61		1625.23	7.28	12.56	5-6-13	611a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-133	40.2	1553.00	—							Roots in casing	pH, TDS, Cr, ClO ₄ pumping
PC-135A	50.8	1618.58	29.85		1588.73	7.29	10.46	5-7-13	1211p		pH, TDS, Cr, ClO ₄
PC-136	40.3	1618.04	33.93		1584.11	7.36	7.21	5-7-13	1014a		pH, TDS, Cr, ClO ₄
PC-142	34.5	1619.64	28.10		1591.24	7.55	7.76	5-7-13	908a		pH, TDS, Cr, ClO ₄
PC-143	65	1619.20	31.10		1588.10	7.39	11.24	5-7-13	845a		pH, TDS, Cr, ClO ₄
PC-144	39.7	1618.63	30.92		1587.71	7.45	7.54	5-7-13	1132a		pH, TDS, Cr, ClO ₄
PC-145	39.7	1617.76	33.95		1583.81	7.29	10.98	5-7-13	936a		pH, TDS, Cr, ClO ₄
PC-147	32.40 31.7	Two 1617.51	Two Field					5-7-13	145p	DRY	pH, TDS, Cr, ClO ₄
PC-148	50.2	1617.96	29.36		1588.60	7.43	9.35	5-7-13	630a		pH, TDS, Cr, ClO ₄
PC-149	50	1618.93	29.95		1588.98	7.46	5.22	5-7-13	657a		pH, TDS, Cr, ClO ₄

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WELL #	TOTAL DEPTH (from TOC)	TOP OF CASING ELEVATION (MSL)	DEPTH TO WATER (FEET)	NON-AQUEOUS PHASE LIQUID ¹	GROUNDWATER ELEVATION (FT MSL)	pH	SPECIFIC CONDUCTIVITY (mS/cm)	DATE	TIME	MONITORING QUALIFIER ²	COMMENTS/Analytical Plan/Temp
PC-150	45.7	1619.09	30.36		1588.73	7.42	7.46	5-7-13	736a		pH, TDS, Cr, ClO ₄
INTERCEPTOR WELLS											
I-AA	46.00	1753.93	31.76		1722.17			5-6-13	107p	pump off	pH, TDS, Cr, ClO ₄
I-AB	52.0	1753.89	31.12		1722.77			5-6-13	113p	pump off	pH, TDS, Cr, ClO ₄
I-AC	50	1752.76	29.05		1723.71			5-13-13	1240p	pump off	pH, TDS, Cr, ClO ₄
I-AD	50	1755.39	29.21		1726.18			5-13-13	1242p	pump off	pH, TDS, Cr, ClO ₄
I-AR	45.00	1758.35	29.63		1728.72	6.99	8.94	5-6-13	1057a	pumping	pH, TDS, Cr, ClO ₄
I-B	45.70	1752.87	36.18		1716.69	7.12	8.12	5-6-13	1107a	pumping	pH, TDS, Cr, ClO ₄
I-C	43.80	1752.77	28.30		1724.47	7.41	11.28	5-6-13	1138a	pumping	pH, TDS, Cr, ClO ₄
I-D	47.70	1752.67	27.56		1725.11	7.52	9.65	5-6-13	1143a	pumping	pH, TDS, Cr, ClO ₄
I-E	46.70	1752.36	43.70		1708.66	7.06	11.60	5-6-13	1151a	pumping	pH, TDS, Cr, ClO ₄
I-F	45.80	1749.70	24.76		1724.94	7.05	13.81	5-6-13	1158a	pumping	pH, TDS, Cr, ClO ₄
I-G	42.60	1752.50	40.25		1712.25	7.11	15.28	5-6-13	1211p	pumping	pH, TDS, Cr, ClO ₄
I-H	46.50	1753.21	32.73		1720.48	7.05	15.06	5-6-13	1218p	pumping	pH, TDS, Cr, ClO ₄
I-I	44.20	1745.50	23.62		1721.88	7.24	9.98	5-13-13	1256p	pumping	pH, TDS, Cr, ClO ₄
I-J	44.50	1750.09	36.55		1713.54	7.26	6.88	5-13-13	1251p	pumping	pH, TDS, Cr, ClO ₄
I-K	40.60	1746.04	25.35		1720.69	7.17	6.78	5-13-13	1248p	pumping	pH, TDS, Cr, ClO ₄
I-L	43.40	1751.69	26.81		1724.88	7.31	11.05	5-6-13	1127a	pumping	pH, TDS, Cr, ClO ₄

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NERT Project, Henderson, Nevada

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I-M	43.70	1752.90	30.61		1722.29	7.24	10.45	5-6-13	1146a	pumping	pH, TDS, Cr, ClO ₄
I-N	41.70	1751.45	26.33		1725.12	7.18	13.20	5-6-13	1155a	pumping	pH, TDS, Cr, ClO ₄
I-O	43.80	1752.79	32.27		1720.52	7.22	13.86	5-6-13	1240p	pumping	pH, TDS, Cr, ClO ₄
I-P	47.80	1751.66	41.53		1710.13	7.0	14.73	5-6-13	1225p	pumping	pH, TDS, Cr, ClO ₄
I-Q	43.80	1753.11	28.37		1724.74	7.05	14.66	5-6-13	1203p	pumping	pH, TDS, Cr, ClO ₄
I-R	45.30	1751.35	30.20		1721.15	7.05	10.50	5-6-13	1120A	pumping	pH, TDS, Cr, ClO ₄
I-S	47.70	1750.03	24.94		1725.09	7.38	11.32	5-6-13	1133a	pumping	pH, TDS, Cr, ClO ₄
I-T	47.80	1751.66	28.68		1722.98	7.34	14.42	5-6-13	1213p	pumping	pH, TDS, Cr, ClO ₄
I-U	47.60	1752.17	29.31		1722.86	7.43	10.76	5-6-13	1215p	pumping	pH, TDS, Cr, ClO ₄
I-V	47.70	1752.13	31.69		1720.44	7.37	11.99	5-9-13	1246p	pumping	pH, TDS, Cr, ClO ₄
I-W	50.00	1751.50	29.93		1721.57			5-6-13	125p	Pump off	pH, TDS, Cr, ClO ₄
I-X	50.00	1748.60	31.61		1716.99			5-6-13	122p	pump off	pH, TDS, Cr, ClO ₄
I-Y	35.00	1751.40	26.46		1724.94			5-6-13	116p	pump off	pH, TDS, Cr, ClO ₄
I-Z	37.00	1743.78	30.25		1713.53	7.13	7.70	5-13-13	12:53p	pumping	pH, TDS, Cr, ClO ₄
OTHER WELLS (OFFSITE)											
PC-37	43.08	1707.72	29.25		1678.47	7.37	8.91	5-8-13	850a		pH, TDS, Cr, ClO ₄ , NO ₃ , ClO ₃
PC-54	34.60	1704.43	22.71		1681.72	7.57	5.97	5-8-13	1137a		pH, TDS, Cr, ClO ₄
PC-71	33.23	1698.73	26.02		1672.71	7.51	8.29	5-8-13	521a		pH, TDS, Cr, ClO ₄
PC-72	39.54	1699.43	28.39		1671.04	7.58	8.22	5-8-13	541a		pH, TDS, Cr, ClO ₄
PC-73	49.44	1699.50	29.56		1699.94	7.50	8.60	5-8-13	554a		pH, TDS, Cr, ClO ₄

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PIONEER CHEMICAL WELL											
H-28A	51.00	1731.75	38.37		1693.38	7.42	14.84	5-16-13	956a		(pH / SC / TOC / TOX) x 4 / CLO4 / CR / TDS
DUPLICATE SAMPLES											
M-48A	VD-3		29.18		1689.18	7.50	4.56	5-8-13	1219p		pH, TDS, CR, CLO4, NO3, CLO3
PC-37	VD-5		29.25		1681.72	7.57	8.29	5-8-13	521e		pH, TDS, Cr, ClO ₄
M-23	VD-6		32.90		1687.45	7.51	5.57	5-9-13	9.52a		pH, TDS, CR, CLO4, NO3, CLO3
M-35	VD-8		30.40		1742.38	7.43	5.05	5-13-13	1102A		pH, TDS, Cr, ClO ₄
M-13	VD-9		44.65		1770.24	7.39	3.84	5-15-13	104p		pH, TDS CR, CLO4, CLO3, NO3
M-10	VD-10		47.42		1788.79	7.36	3.39	5-14-13	1217p		pH, TDS CR, CLO4 CRVI, CLO3, NO3
OTHER SAMPLES COLLECTED											
EB-1								5-8-13	1246p		pH / TDS / Cr / Cr6 / ClO4
EB-2								5-9-13	1150A		pH / TDS / Cr / Cr6 / ClO4
EB-1								5-7-13	1225p		pH / TDS / Cr / Cr6 / ClO4

NOTES:

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Chain of Custody Record

Project Manager: Wendy Prescott Tel/Fax: 702-371-9307		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy		Date:	
Client Contact		Carrier:		COC No: PG 2 OF 2 COC's	
Analysis Turnaround Time		200.7 - 200.7: Chromium		Job No.	
Calendar (C) or Work Days (W) WORK		314.0 LL-PERCHLORATE		SDG No.	
TAT if different from Below		2540C CALCED-TOTAL DISSOLVED SOLIDS			
<input checked="" type="checkbox"/> 2 weeks	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
<input type="checkbox"/> 1 week	5-6-13	1544	NORMAL	WATER	3
<input type="checkbox"/> 2 days	↑	1254	NORMAL	WATER	3
<input type="checkbox"/> 1 day	↓	1304	NORMAL	WATER	3
		1554	NORMAL	WATER	3
	5-6-13	1454	NORMAL	WATER	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 1 Month

Relinquished by: <i>[Signature]</i>	Company: <i>VED/IN WATER</i>	Date/Time: <i>5-6-13</i>	Received by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>07-13-13</i>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

TestAmerica
THE LEADER IN ENVIRONMENTAL

Chain of Custody Record

TestAmerica Laboratories
COC No. 1 of 2 COCs
Job No.
SDG No.

Client Contact		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307		Site Contact: Wendy Prescott		Date:					
Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307 FAX:		Analysis Turnaround Time Calendar (C) or Work Days (W) WORK TAT if different from Below 10 DAY <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: Sushmitha Reddy		Carrier:					
Project Name: Envirogen- Monthly ART and PC Wells pg 1		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.	
Site: NERT- 510 S. Fourth St., Henderson, NV 89015		5-6-13		2230		NORMAL		WATER		3	
P O # 3693		↑		2300		NORMAL		WATER		3	
		2200		2150		NORMAL		WATER		3	
		2430		2360		NORMAL		WATER		3	
		2350		2410		NORMAL		WATER		3	
		1400		1580		NORMAL		WATER		3	
		1500		1560		NORMAL		WATER		3	
		5-6-13		1560		NORMAL		WATER		3	

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

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

Special Instructions/QC Requirements & Comments:

Relinquished by: *[Signature]* Date/Time: 5-6-13 1400
 Relinquished by: Date/Time: Company: Received by: *[Signature]* Date/Time: 5-6-13 1900
 Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Irvine

17461 Dertian Ave
Suite 100
Irvine, CA 92614
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL

TestAmerica Laboratories, J

Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307 FAX:		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7 - 200.7 pH, TDS, CRVI, NO3, 150.1, 2540C Calcd, 218.6 ORCFM, 300 ORCFMS pH, TDS, NO3 150.1, 2540C Calcd, 300 ORCFMS CLO3 300.1B 28D		Date: Carrier: Job No. SDG No.					
Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307 FAX:		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7 - 200.7 pH, TDS, CRVI, NO3, 150.1, 2540C Calcd, 218.6 ORCFM, 300 ORCFMS pH, TDS, NO3 150.1, 2540C Calcd, 300 ORCFMS CLO3 300.1B 28D		Date: Carrier: Job No. SDG No.					
Sample Identification I-AR I-B I-R I-L I-S I-C I-D I-M I-E I-N I-F I-Q		Sample Date 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13 5/6/13		Sample Time 1156A 1153A 1151A 1148A 1145A 1141A 1138A 1134A 1132A 1130A 1128A 1125A		Sample Type NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Matrix WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER		# of Cont. 3 3 3 3 3 3 3 3 3 3 3 3	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Return To Client <input type="checkbox"/>		Dispositary Lab <input checked="" type="checkbox"/>		Archive For: 1 Months					

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Relinquished by: *Michele Brown*
 Date/Time: 5/6/13 13:00
 Company: *Envirogen*

Received by: *Stella Valenzuela*
 Date/Time: 5/6/13 13:00
 Company: *TestAmerica*

Relinquished by: *[Signature]*
 Date/Time: 5/6/13 13:00
 Company: *Envirogen*

Received by: *[Signature]*
 Date/Time: 5/6/13 13:00
 Company: *TestAmerica*

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record



TestAmerica Laboratories
COC No. 1 of 1 COCs
Job No. _____
SDG No. _____

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307
FAX: _____
Project Name: Envirogen
Site: NERT-510 S. Fourth St., Henderson, NV 89015
P O # 3693

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307

Site Contact: Wendy Prescott
Lab Contact: Sushmita Reddy

Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification

Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
5-6-13	1122A	NORMAL	WATER	3
5-6-13	1107A	NORMAL	WATER	3
5-6-13	1119A	NORMAL	WATER	3
5-6-13	1104A	NORMAL	WATER	3
5-6-13	1101A	NORMAL	WATER	3
5-6-13	1057A	NORMAL	WATER	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 return To Client Disposal By: 28b Archive For: 12 months

Relinquished by: <i>Michelle Brown</i>	Company: <i>Volia Water</i>	Date/Time: <i>5-6-13</i>
Relinquished by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:

Irvine

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TestAmerica
THE LEADER IN ENVIRONMENTAL

Chain of Custody Record

TestAmerica Laboratories
COC No: 1 of 1 COCs
Job No.

Date: _____
Carrier: _____

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307
FAX:

CR 200.7 - 200.7
pH, TDS, CRYL, NO3, 150L, 2540C
Calcd, 218.6 ORCEM, 300 ORCEMS

CL04 314.0
pH, TDS 150.1 2540C Calcd

Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

CL03 300.1B 28D
ORCEMS
pH, TDS, NO3 150L, 2540C Calcd, 300

Filtered Sample

Project Name: Envirogen 2ND Quarter
Site: NERT- 510 S. Fourth St., Henderson, NV 89015
P O # 3693

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
PC-123	5-6-13	448A	NORMAL	WATER	3
PC-128	5-6-13	512A	NORMAL	WATER	4
PC-129	5-6-13	529A	NORMAL	WATER	3
PC-130	5-6-13	545A	NORMAL	WATER	4
PC-50	5-6-13	808A	NORMAL	WATER	3
PC-132	5-6-13	600A	NORMAL	WATER	3
PC-124	5-6-13	621A	NORMAL	WATER	4
PC-125	5-6-13	628A	NORMAL	WATER	4
PC-126	5-6-13	652A	NORMAL	WATER	3
PC-24	5-6-13	708A	NORMAL	WATER	4
PC-127	5-6-13	724A	NORMAL	WATER	3
	5-6-13	750A	NORMAL	WATER	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

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

Relinquished by: Mahesh Brown
Date/Time: 5-6-13/12:00

Relinquished by: Vedavada
Date/Time: 5-6-13/12:00

Relinquished by: _____
Date/Time: _____

Relinquished by: _____
Date/Time: _____

Company: _____
Date/Time: _____

Company: _____
Date/Time: _____

Company: _____
Date/Time: _____

Irvine
 17461 Derian Ave
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 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

TestAmerica
 THE LEADER IN ENVIRONMENTAL

Chain of Custody Record

TestAmerica Laboratories

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:
 Project Name: Envirogen
 Site: NERT- 510 S. Fourth St., Henderson, NV 89015
 P O # 3693

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Wendy Prescott
 Lab Contact: Sushmitha Reddy

Date:
Carrier:

COC No:
 1 of 1 COCs

Job No.

SDG No.

Sample Identification

PC-28
 PC-31
 PC-64
 PC-65
 PC-66
 PC-67
 PC-96

Sample Date
 5-6-13
 5-6-13
 5-6-13
 5-6-13
 5-6-13
 5-6-13
 5-6-13

Sample Time
 826A
 847A
 905A
 958A
 941A
 924A
 1011A

Sample Type
 NORMAL
 NORMAL
 NORMAL
 NORMAL
 NORMAL
 NORMAL
 NORMAL

Matrix
 WATER
 WATER
 WATER
 WATER
 WATER
 WATER
 WATER

of Cont.
 3
 3
 3
 3
 3
 3
 3

Filtered Sample
 CL043140
 CR 2007 - 2007
 pH, TDS 150.1 2540C Calcd.
 pH, TDS, CRVI, NO3 150.1, 2540C Calcd.
 218.6 ORGFM
 pH, TDS, CRVI, NO3 150.1, 2540C Calcd.
 218.6 ORGFM, 300 ORGMS
 pH, TDS, NO3 150.1, 2540C Calcd.
 300 ORGMS
 CL03 300.1B 28D

NO SAMPLE DRY

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

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

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 12months

Relinquished by: **Michele Brown** Date/Time: **5-6-13/1356**
 Relinquished by: **Victoria Wapner** Date/Time: **5-6-13/1356**
 Relinquished by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Company: **Envirogen**

Received by: **John P** Date/Time: **5-6-13/1306**

Irvine

17461 Derian Ave
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 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TEST SERVICES

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Wendy Prescott		Site Contact: Wendy Prescott		Date:	
Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307		Tel/Fax: 702-371-9307		Lab Contact: Sushmitha Reddy		Carrier:	
FAX:		Analysis Turnaround Time		CR 200.7 - 200.7		COC No:	
Project Name: Envirogen 2ND Quarter		Calendar (C) or Work Days (W) WORK		pH, TDS, CRVI, NO3, 150.1, 254OC		Job No:	
Site: NERT- 510 S. Fourth St., Henderson, NV 89015		TAT: if different from Below		Calc'd, 218.6 ORGEM, 300 ORGEM		SDG No.	
P O # 3693		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		pH, TDS, NO3 150.1, 254OC Calcd, 300 ORGEM			
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	
AA-01	5-7-13	6:16a	NORMAL	WATER	✓	1	
PC-148	5-7-13	6:50a	NORMAL	WATER	✓	3	
PC-149	5-7-13	7:35a	NORMAL	WATER	✓	3	
PC-150	5-7-13	8:55a	NORMAL	WATER	✓	3	
PC-143	5-7-13	9:00a	NORMAL	WATER	✓	3	
PC-142	5-7-13	9:13a	NORMAL	WATER	✓	3	
PC-147			NORMAL	WATER	✓	3	
PC-145	5-7-13	9:41a	NORMAL	WATER	✓	3	
PC-137	5-7-13	10:09a	NORMAL	WATER	✓	3	
PC-136	5-7-13	10:20a	NORMAL	WATER	✓	3	
PC-2	5-7-13	11:00a	NORMAL	WATER	✓	4	
PC-4	5-7-13	11:40a	NORMAL	WATER	✓	4	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 return To Client Disposit By Lab Archive For 1 Months

Relinquished by:	Company: <i>Abelia</i>	Date/Time: 5-7-13 1:40	Received by:	Company: <i>TA</i>	Date/Time: 5-7-13 1:40
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

NO Sample Dry

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax.949.260.3299



Chain of Custody Record

TestAmerica Laboratories, I
 COC No:

Site Contact: Wendy Prescott
 Lab Contact: Sushmitha Reddy

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307

Date:
 Carrier:

1 of 1 COCs
 Job No.

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:
 Project Name: Envirogen
 Site: NERT - 510 S. Fourth St., Henderson, NV 89015
 P O # 3693

SDG No.

NO SAMPLE DRY

Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	PH, TDS, CRVI, 150.1, 2540C Calcd.	CR 200.7 - 200.7	PH, TDS, CRVI, 150.1, 2540C Calcd.	218.6 ORGFM	PH, TDS, CRVI, 150.1, 2540C Calcd.	218.6 ORGFM, 300 ORGFM	PH, TDS, NO3 150.1, 2540C Calcd.	300 ORGFM	CL03 300.1B 28D
PC-1	5-9-13		NORMAL	WATER	0		1	1	3						
PC-144	5-9-13	1130	NORMAL	WATER	3		1	1	3						
PC-134A	5-9-13	1205	NORMAL	WATER	3		1	1	3						
PC-135A	5-9-13	1221	NORMAL	WATER	3		1	1	3						
HMW-16	5-9-13	1246	NORMAL	WATER	3		1	1	3						
HMW-13	5-9-13	1170	NORMAL	WATER	3		1	1	3						
FB-1	5-9-13	1258	NORMAL	WATER	3		1	1	3						
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

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

Special Instructions/OC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 return To Client Disposal By Lab Archive For 12 months

Relinquished by:	Received by:	Date/Time:
Michelle Brown	Wendy Prescott	5-9-13 / 1130
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89016 702-371-9307 FAX: Project Name: Envirogen Site: NERT-510 S. Fourth St., Henderson, NV 89016 P O # 3683		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT if different from below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7 - 200.7 pH, TDS, CRYL, 150.1, 2540C Calcd. 218.6 ORGFM pH, TDS, CRYL, NO3 150.1, 2540C Calcd. 218.6 ORGFM, 300 ORGFM pH, TDS, NO3 150.1, 2540C Calcd. 300 ORGFM CLO3 300.1B 28D		Date: Carrier: Job No. SDG No.					
Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89016 702-371-9307 FAX: Project Name: Envirogen Site: NERT-510 S. Fourth St., Henderson, NV 89016 P O # 3683		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT if different from below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7 - 200.7 pH, TDS, CRYL, 150.1, 2540C Calcd. 218.6 ORGFM pH, TDS, CRYL, NO3 150.1, 2540C Calcd. 218.6 ORGFM, 300 ORGFM pH, TDS, NO3 150.1, 2540C Calcd. 300 ORGFM CLO3 300.1B 28D		Date: Carrier: Job No. SDG No.					
Sample Identification PC-71 PC-72 PC-73 PC-40 H-58A H-48 MC-65 PC-37 HM-2 PC-107 HMW-14 HMW-15		Sample Date 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13 5-8-13		Sample Time 534A 549A 655A 689A 718A 801A 827A 901A 944A 1014A 1034A 1053A		Sample Type NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Matrix WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER		# of Conf. 3 3 3 3 3 3 3 3 2 2 2 2	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For 12 months									

Relinquished by: <i>Atchelle Brown</i>	Company: Vedica Water	Date/Time: 5-8-13 / 134
Relinquished by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:

Irvine

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Chain of Custody Record

TestAmerica Laboratory
COC No. 1 of 1 COCs
Job No.
SDG No.

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307
Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307
FAX:
Project Name: Envirogen
Site: NERT- 510 S. Fourth St., Henderson, NV 89015
P O # 3693

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Entered Sample	CR 2007 - 2007	pH, TDS, CRVL, NO3 150.1, 2540C Calcd.	218.6 ORGEM	pH, TDS, CRVL, NO3 150.1, 2540C Calcd.	218.6 ORGEM, 300 ORGEM	pH, TDS, NO3 150.1, 2540C Calcd.	300 ORGEM	CI03 300.1B 28D
PC-54	5-8-13	1144	NORMAL	WATER	3	1	1							
M-95	5-8-13	1127A	NORMAL	WATER	3	1	3							
PC-21A	5-8-13	1208P	NORMAL	WATER	4	1	3							
M-48A	5-8-13	1228P	NORMAL	WATER	4	1	3							
VD-3	5-8-13	-	NORMAL	WATER	4	1	3							
VD-4	5-8-13	-	NORMAL	WATER	4	1	3							
VD-5	5-8-13	-	NORMAL	WATER	3	1	3							
M-44	5-8-13	1256p	NORMAL	WATER	3	1	3							
EB-1	5-8-13	1246p	NORMAL	WATER	3	1	3							
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
Special Instructions/QC Requirements & Comments:
 Poison B Unknown

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

Relinquished by: *Michelle Brown* Date/Time: *5-8-13 1345*
Relinquished by: *Victoria White* Date/Time: *5-8-13 1345*
Relinquished by: *Victoria White* Date/Time: *5-8-13 1345*
Relinquished by: *Victoria White* Date/Time: *5-8-13 1345*

Irvine

17461 Dertian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3799

TestAmerica Laboratories
THE LEADER IN ENVIRONMENTAL

Chain of Custody Record

Client Contact		Project Manager: Wendy Prescott		Site Contact: Wendy Prescott		Date:	
Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307		Tel/Fax: 702-371-9307		Lab Contact: Sushmitha Reddy		COC No: 1 of 1 COCs Job No. SDG No.	
FAX:		Analysis Turnaround Time		Carrier:			
Project Name: Envirogen		Calendar (C) or Work Days (W) WORK		CR 2007-2007			
Site: NERT-510 S. Fourth St., Henderson, NV 89015		TAT: if different from Below		pH, TDS 150.1 2540C Calcd.			
P O # 3693		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		pH, TDS, CRVI, NO3 150.1, 2540C Calcd.			
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Lab Contact: Sushmitha Reddy
MC-53	5-9-13	818a	NORMAL	WATER	3	CT04 3140	pH, TDS, CRVI, NO3 150.1, 2540C Calcd.
MC-57	5-9-13	640a	NORMAL	WATER	2		pH, TDS, NO3 150.1, 2540C Calcd.
MC-6	5-9-13	656a	NORMAL	WATER	2		218.6 ORGFM, 300 ORGMS
MC-45	5-9-13	719a	NORMAL	WATER	2		pH, TDS, CRVI, NO3 150.1, 2540C Calcd.
MC-50	5-9-13	742a	NORMAL	WATER	2		
MC-51	5-9-13	802a	NORMAL	WATER	2		
MC-93	5-9-13	835a	NORMAL	WATER	2		
MC-69	5-9-13	856a	NORMAL	WATER	2		
MC-3	5-9-13	910a	NORMAL	WATER	2		
MC-29	5-9-13	931a	NORMAL	WATER	2		
MC-94	5-9-13	944a	NORMAL	WATER	2		
MC-23	5-9-13	1002a	NORMAL	WATER	4		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Archive For 7 months

Requested by:	Company:	Date/Time:
Requested by:	Company:	Date/Time:
Requested by:	Company:	Date/Time:

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories

COC No:

Job No.

Date:

Carrier:

Site Contact: Wendy Prescott

Lab Contact: Sushmitha Reddy

Project Manager: Wendy Prescott

Tel/Fax: 702-371-9307

Client Contact

Envirogen Technologies

510 South Fourth Street

Henderson, NV 89015

702-371-9307

FAX:

Project Name: Envirogen

Site: NERT- 510 S. Fourth St., Henderson, NV 89015

P O # 3693

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Analysis Turnaround Time		Filtered Sample	pH, TDS, CRVI, 150.1, 2540C Calcd	CR 200.7 - 200.7	pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGFM	pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGFM	CL03 300.1B 28D
						Calendar (C) or Work Days (W)	WORK							
M-92	5-9-13	1038	NORMAL	WATER	3			CL04 314.0		1	1	3		
M-97	5-9-13	1058	NORMAL	WATER	3					1	1	3		
M-64	5-9-13	123	NORMAL	WATER	3					1	1	3		
M-65	5-9-13	1145A	NORMAL	WATER	3					1	1	3		
M-66	5-9-13	1203	NORMAL	WATER	3					1	1	3		
EB-2	5-9-13	1150A	NORMAL	WATER	3					1	1	3		
M-19	5-9-13	1218	NORMAL	WATER	3					1	1	3		
M-69	5-9-13	1231	NORMAL	WATER	3					1	1	3		
J-V	5-9-13	1247	NORMAL	WATER	3					1	1	3		
VD-6	5-9-13	-	NORMAL	WATER	4					1	1	3	16	
VD-7	5-9-13	-	NORMAL	WATER	3					1	1	3		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

return To Client Disposal By Lab Archive For 12 months

Relinquished by: *Melinda Brown*

Company: *Envirogen*

Date/Time: *5-9-13/00*

Received by: *[Signature]*

Date/Time: *5/13/00*

Relinquished by:

Company:

Date/Time:

Received by:

Date/Time:

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307

Date: _____
Carrier: _____

Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT: if different from Below _____
 2 weeks
 1 week
 2 days
 1 day

COC No: _____
Job No. _____
SDG No. _____

Project Name: Envirogen
Site: NERT- 510 S. Fourth St., Henderson, NV 89015
P O # 3693

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CR 200.7 - 200.7	pH, TDS 150.1 2540C Calcd	CL04 314.0	pH, TDS, CRVI, 150.1, 2540C Calcd.	218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd.	218.6 ORGFM, 300 ORGFM	pH, TDS, NO3 150.1, 2540C Calcd.	500 ORGFM	CL03 300.1B 28D
I-K	5-13-13	506a	NORMAL	WATER	3		1	1	3							
I-J	5-13-13	511a	NORMAL	WATER	3		1	1	3							
I-Z	5-13-13	516a	NORMAL	WATER	3		1	1	3							
I-I	5-13-13	522a	NORMAL	WATER	3		1	1	3							
M-136	5-13-13	602a	NORMAL	WATER	3		1	1	3							
M-135	5-13-13	615a	NORMAL	WATER	3		1	1	3							
M-134	5-13-13	645a	NORMAL	WATER	3		1	1	3							
M-131	5-13-13	702a	NORMAL	WATER	3		1	1	3							
M-57A	5-13-13	718a	NORMAL	WATER	3		1	1	3							
M-126	5-13-13	731a	NORMAL	WATER	3		1	1	3							
MW-16	5-13-13	747a	NORMAL	WATER	3		1	1	3							
M-99	5-13-13	805a	NORMAL	WATER	3		1	1	3							

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

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

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For 7 months

Relinquished by: <i>Michael Brown</i>	Company: <i>Valvia Water</i>	Date/Time: <i>5-13-13 1425</i>	Received by: <i>[Signature]</i>	Company: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica Laboratories
 COC No: 1 of 1 COCs
 Job No.
 SDG No.

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:
 Project Name: Envirogen
 Site: NERT- 510 S. Fourth St., Henderson, NV 89015
 P O # 3693

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307

Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 day's
 1 day

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy

Date:
Carrier:

CR2007-2007
 PH, TDS, CRYL, 150.1, 2540C Calcd.
 CL04 314.0
 PH, TDS, CRYL, 150.1, 2540C Calcd.
 218.6 ORGFM
 PH, TDS, CRYL, NO3 150.1, 2540C Calcd.
 218.6 ORGFM, 300 ORGFM
 PH, TDS, NO3 150.1, 2540C Calcd.
 300 ORGFM
 CL03 300.1B 28D

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
M-76	5-13-13	8:53a	NORMAL	WATER	3
M-25	5-13-13	12:42p	NORMAL	WATER	4
M-37	5-13-13	12:56p	NORMAL	WATER	4
M-14A	5-13-13	9:10a	NORMAL	WATER	3
M-115	5-13-13	9:25a	NORMAL	WATER	3
M-75	5-13-13	10:07a	NORMAL	WATER	3
M-2A	5-13-13	10:56a	NORMAL	WATER	3
M-35	5-13-13	11:42a	NORMAL	WATER	3
M-19	5-13-13	11:28a	NORMAL	WATER	3
M-68	5-13-13	11:45a	NORMAL	WATER	3
M-74	5-13-13	12:03p	NORMAL	WATER	3
M-73	5-13-13	12:35p	NORMAL	WATER	3

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

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

Received by: *[Signature]* Date/Time: 5/13/13
 Received by: *[Signature]* Date/Time: 5/13/13
 Received by: *[Signature]* Date/Time: 5/13/13

Company: *[Signature]* Date/Time: 5/13/13
 Company: *[Signature]* Date/Time: 5/13/13
 Company: *[Signature]* Date/Time: 5/13/13

Irvine

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Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TEST

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307

Site Contact: Wendy Prescott
 Lab Contact: Sushmitha Reddy

Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Project Name: Envirogen- Quarterly M-10
Site: NERT- 510 S. Fourth St., Henderson, NV 89015
P O # 3693

Sample Identification
 M-10

Sample Date 5-11-13
Sample Time 1:24p
Sample Type NORMAL WATER
Matrix WATER
of Cont. 6

Sample ID	Quantity	Analysis	Carrier	Date	Job No.	SDG No.
200.7 - B, Cr, Iron, Mn	4	3	1			
SM4500NH3 D - Ammonia, TN	3	6	1			
300.1B 28D - Chlorate	6	1				
314.0 Perchlorate	1					
309 ORGANS - (POB) Nerve Agents						
1901 - METALS - Cad, Lead						
Dioxin Salt - Dioxin						
Chromium, Hexavalent						

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Polson B Unknown
 Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
 Possible Hazard Identification
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Archive For 1 Month Disposal By Lab

Relinquished by: Michael Brown Date/Time: 5-11-13 1:24p
 Relinquished by: Nadia Waha Date/Time: 5-14-13 13:05
 Relinquished by: [Signature] Date/Time: 5-14-13 13:58

Company: [Signature]
 Company: [Signature]
 Company: [Signature]

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89016 702-371-9307 FAX: Project Name: Envirogen Site: NERT- 510 S. Fourth St., Henderson, NV 89015 P O # 3693		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7-200.7 pH, TDS, CRV1, 150.1, 2540C Calcd, 218.6 ORCRM pH, TDS, CRV1, NO3 150.1, 2540C Calcd, 218.6 ORCRM, 300 ORGRMS pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGRMS CL03 300.1B 28D		Date: Carrier: Job No.: SDG No.:					
Sample Identification M-67 M-81A M-80#MB M-83 M-110 M-71 M-72 M-22A M-133 M-123 M-128 M-124		Sample Date 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13 5-14-13		Sample Time 5:50a 6:16a 6:42a 6:56a 7:02a 7:22a 7:34a 11:00a 8:08a 9:03a 9:23a 9:41a		Sample Type NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Matrix WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER		# of Cont. 3 3 3 3 3 3 3 3 3 2 2 3	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Special Instructions/QC Requirements & Comments:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For 12 months							

Relinquished by: <i>M. Schele Brown</i>	Company: <i>Envirogen</i>	Received by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>5/14/13 12:50</i>
Relinquished by:	Company:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Received by:	Company:	Date/Time:

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

Client Contact		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307		Site Contact: Wendy Prescott		Date:		TestAmerica Laboratory	
Envirogen Technologies 610 South Fourth Street Henderson, NV 89015		Analysis Turnaround Time Calendar (C) or Work Days (W) WORK		Lab Contact: Sushmitha Reddy		Carrier:		COC No: 1 of 1 COCs	
702-371-9307		TAT if different from Below		CR 2007-2007		Job No.		SDG No.	
FAX:		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		PH, TDS, CRVI, NO3 150.1, 2540C Calcd.					
Project Name: Envirogen				218.6 ORGFM					
Site: NERT- 510 S. Fourth St., Henderson, NV 89015				PH, TDS, CRVI, NO3 150.1, 2540C Calcd.					
P O # 8698				218.6 ORGFM, 300 ORGMS					
				218.6 ORGFM, 300 ORGMS					
				PH, TDS, CRVI, NO3 150.1, 2540C Calcd.					
				300 ORGMS					
				PH, TDS, CRVI, NO3 150.1, 2540C Calcd.					
				CL03 300.1B 28D					

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
M-38	5-14-13	1131A	NORMAL	WATER	3
H-11	5-14-13	958A	NORMAL	WATER	2
M-125	5-14-13	1037A	NORMAL	WATER	2
M-142	5-14-13	1050A	NORMAL	WATER	3
M-36	5-14-13	1136A	NORMAL	WATER	4
EB-3	5-14-13	1200P	NORMAL	WATER	3
FB-2	5-14-13	1202P	NORMAL	WATER	3
VD-10	5-14-13		NORMAL	WATER	4
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

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

Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 12 months

Relinquished by: <i>Michele Brown</i>	Company: <i>Envirogen</i>	Date/Time: <i>5/14/13 1:00P</i>
Relinquished by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

TestAmerica Laboratory

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307
FAX:
Project Name: Envirogen
Site: NERT-510 S. Fourth St., Henderson, NV 89015
P O # 3693

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307
Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy
Date:
Carrier:
COC No:
1 of 1 COCs
Job No.
SDG No.

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Entered Sample
M-11	5-15-13	858a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd CR 200.7-200.7
PC-117	5-15-13	1038a	NORMAL	WATER	2	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
PC-114	5-15-13	1050a	NORMAL	WATER	2	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM
M-148A	5-15-13	922a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-31A	5-15-13	958a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-141	5-15-13	1194a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-52U	5-15-13	1015a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-139	5-15-13	1105a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-145	5-15-13	1148a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-11	5-15-13	1324b	NORMAL	WATER	4	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
M-13	5-15-13	1391	NORMAL	WATER	4	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS
EO-4	5-15-12	1155a	NORMAL	WATER	3	PH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGRM, 300 ORGRMS

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
Special Instructions/QC Requirements & Comments:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For: 12 months

Received by:	Date/Time:	Company:
<i>Michelle Brown</i>	5-15-13 1900	Envirogen

Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record



TestAmerica Laboratory

COC No:
1 of 1 COCs
Job No.
SDG No.

Client Contact
Envirogen Technologies
510 South Fourth Street
Henderson, NV 89016
702-371-9307
FAX:
Project Name: Envirogen
Site: NERT-510 S. Fourth St., Henderson, NV 89015
P O # 3693

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307
Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy
Date:
Carrier:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	CR 2007 - 2007	pH, TDS, CRVI, 150.1, 2540C Calcd.	218.6 ORGFM	pH, TDS, CRVI, NO3 150.1, 2540C Calcd.	218.6 ORGFM, 300 ORGFM	pH, TDS, NO3 150.1, 2540C Calcd.	300 ORGFM	CI03 300.1B 28D
PC-96	5-15-13	7:14a	NORMAL	WATER	2	1	1							
VD-9	5-15-13		NORMAL	WATER	4	1	3							16
M-21	5-15-13	10:28a	NORMAL	WATER	3	1	3							
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										
			NORMAL	WATER										

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For 7 months

Relinquished by: *Michelle Brown* Date/Time: *5/15/13*
Relinquished by: *Victoria Wade* Date/Time: *5/15/13*
Relinquished by: _____ Date/Time: _____
Company: _____ Date/Time: _____
Company: _____ Date/Time: _____
Company: _____ Date/Time: _____

Chain of Custody Record

Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307 FAX: Project Name: Envirogen Site: NERT- 510 S. Fourth St., Henderson, NV 89015 P O # 3693		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> TAT, if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy CR 200.7 - 200.7 pH, TDS, CRVI, 150.1, 2540C Calcd, CR 314.0 pH, TDS, 150.1, 2540C Calcd		Date: Carrier: Job No. SDG No.							
Sample Identification M-144 M-146 M-147 M-137 M-138 M-95 M-44 M-124 M-1 M-2 M-38		Sample Date 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13 5/16/13		Sample Time 617a 640a 708a 752a 814a 1047a 1034a 1130a 640a 617a 614p		Sample Type NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Matrix WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER		# of Cont. 3 3 3 3 3 1 1 4 3 3 1		pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGEM pH, TDS, CRVI, 150.1, 2540C Calcd, 218.6 ORGEM, 300 ORGEMS pH, TDS, NO3 150.1, 2540C Calcd, 300 ORGEMS CL03 300.LB 28D CRVI	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown													
Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By:tab Archive For: 12 months													

Relinquished by: Michelle Brown	Company: Verona Water	Date/Time: 5/16/13 14:00
Relinquished by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299

TestAmerica
 THE LEADER IN ENVIRONMENTAL TEST

Chain of Custody Record

Client Contact				Project Manager: Wendy Prescott				Site Contact: Wendy Prescott				Date:			
Envirogen Technologies				Tel/Fax: 702-371-9307				Lab Contact: Sushmitha Reddy				Carrier:			
510 South Fourth Street				Analysis Turnaround Time				9028B - 902A, TOX				COC No:			
Henderson, NV 89015				Calendar (C) or Work Days (W) WORK				5318C - 5318C TOC				1 of 1 COCs			
702-371-9307				TAT if different from Below				2518B - 2518: Conductance				Job No.			
FAX:				<input checked="" type="checkbox"/> 2 weeks				300 ORGEM 2SD - 300: C/SO4, 150-1				SDG No.			
Project Name: Envirogen Quarterly RCRA				<input type="checkbox"/> 1 week				150: pH, 7540C, Calc'd - 7540: TDS							
Site: NERT - 510 S. Fourth St., Henderson, NV 89015				<input type="checkbox"/> 2 days				Cr, B, Iron, Mn, Na 200.7 - 200.7							
P O # 3693				<input type="checkbox"/> 1 day				CM 3140							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Entered Sample	4781 - 478: Phenols, Total <th>9028B - 902A, TOX <th>5318C - 5318C TOC <th>2518B - 2518: Conductance <th>150: pH, 7540C, Calc'd - 7540: TDS <th>300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th></th></th></th></th></th>	9028B - 902A, TOX <th>5318C - 5318C TOC <th>2518B - 2518: Conductance <th>150: pH, 7540C, Calc'd - 7540: TDS <th>300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th></th></th></th></th>	5318C - 5318C TOC <th>2518B - 2518: Conductance <th>150: pH, 7540C, Calc'd - 7540: TDS <th>300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th></th></th></th>	2518B - 2518: Conductance <th>150: pH, 7540C, Calc'd - 7540: TDS <th>300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th></th></th>	150: pH, 7540C, Calc'd - 7540: TDS <th>300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th></th>	300 ORGEM 2SD - 300: C/SO4, 150-1 <th>Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th></th>	Cr, B, Iron, Mn, Na 200.7 - 200.7 <th>CM 3140 </th>	CM 3140	
H-28A	5-16-13	1030a	NORMAL WATER		7		1	4	1	6	3	3			
M-6A	5-16-13	1010a	NORMAL WATER		7		1	4	1	6	3	3			
M-5A	5-16-13	930A	NORMAL WATER		7		1	4	1	6	3	3			
M-7B	5-16-13	845a	NORMAL WATER		7		1	4	1	6	3	3			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown															
Special Instructions/QC Requirements & Comments: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For 12 Months															
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															

Relinquished by: <i>Michael Brown</i>	Company: <i>Stover Water</i>	Date/Time: <i>5-16-13 1410</i>	Received by: <i>[Signature]</i>	Company: <i>PA</i>	Date/Time: <i>5/16/13 1410</i>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Irvine

17461 Derrian Ave
Suite 100
Irvine, CA 92614
phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

TestAmerica Laboratories, Inc

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy

Project Manager: Wendy Prescott
Tel/Fax: 702-371-9307

Client Contact: Envirogen Technologies
510 South Fourth Street
Henderson, NV 89015
702-371-9307

Project Name: Envirogen
Site: NERT-610 S. Fourth St., Henderson, NV 89015
P O # 3693

Analysis Turnaround Time
Calendar (C) or Work Days (W) WORK
TAT if different from Below

2 weeks
 1 week
 2 days
 1 day

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
PC-579	5-21-13	928a	NORMAL	WATER	3
PC-866	5-21-13	858a	NORMAL	WATER	4
PC-822	5-21-13	954a	NORMAL	WATER	3
PC-588	5-21-13	1015a	NORMAL	WATER	3
PC-566	5-21-13	1038a	NORMAL	WATER	3
PC-600	5-21-13	1103a	NORMAL	WATER	3
PC-602	5-21-13	1148a	NORMAL	WATER	3
PC-599	5-21-13	1126a	NORMAL	WATER	3
PC-608	5-21-13	1224	NORMAL	WATER	3
			NORMAL	WATER	
			NORMAL	WATER	
			NORMAL	WATER	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

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

Special Instructions/QC Requirements & Comments:

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

Received by: *Michelle Brown* Date/Time: 5-22-13
 Received by: *Neelica Under* Date/Time: 5-22-13
 Received by: _____ Date/Time: _____

Irvine
 17461 Derjian Ave
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 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:
 Project Name: Envirogen
 Site: NERT- 510 S. Fourth St., Henderson, NV 89015
 P O # 3693

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Wendy Prescott
Lab Contact: Sushmita Reddy

COC No: 1 of 1 COCs
Job No.
SDG No.

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
PC-97	5-22-13	9:23a	NORMAL	WATER	3
PC-90	5-22-13	9:46a	NORMAL	WATER	4
PC-108	5-22-13	11:02a	NORMAL	WATER	2
PC-110	5-22-13	11:23a	NORMAL	WATER	2
PC-91	5-22-13	10:15a	NORMAL	WATER	4
PC-92	5-22-13	10:26a	NORMAL	WATER	3
PC-94	5-22-13	11:12a	NORMAL	WATER	3
ART-7B	5-22-13	10:49	NORMAL	WATER	3

Filtered Sample

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
CL043140					
PH, TDS 150.1 2540C Calcd					
CR 200.7 - 200.7					
PH, TDS, CRVI, 150.1, 2540C Calcd,					
218.6 ORGEM					
PH, TDS, CRVI, NO3 150.1, 2540C Calcd,					
218.6 ORGEM, 300 ORGEMS					
PH, TDS, NO3 150.1, 2540C Calcd,					
300 ORGEMS					
CL03 300.1B 28D					

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Return To Client Disposal By Lab Archive For 7 months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Received by: *Michelle Brown* **Date/Time:** 5-22-13 14:06
Company: *TestAmerica*

Received by: *Wendy Prescott* **Date/Time:** 5-22-13 14:06
Company: *TestAmerica*

Received by: *Wendy Prescott* **Date/Time:** 5-22-13 14:06
Company: *TestAmerica*

Irvine

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phone 949.261.1022 fax 949.260.3299

Chain of Custody Record



Client Contact Envirogen Technologies 510 South Fourth Street Henderson, NV 89015 702-371-9307 FAX:		Project Manager: Wendy Prescott Tel/Fax: 702-371-9307 Analysis Turnaround Time Calendar (C) or Work Days (W) WORK <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day TAT if different from Below		Site Contact: Wendy Prescott Lab Contact: Sushmitha Reddy Date: _____ Carrier: _____		TestAmerica Laboratories, Inc. COC No: _____ 1 of 1 COCs Job No. _____ SDG No. _____							
Sample Identification PC-122 PC-53 NW-KS ARP-7 ARP-6B ARP-SA ARP-4A ARP-3A ARP-2A PC-101R PC-1B		Sample Date 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13 5-23-13		Sample Time 7:30a 14:00 9:02a 8:10a 8:30a 8:40a 9:03a 9:52a 10:12a 9:39a 11:52a		Sample Type NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Matrix WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER WATER		# of Cont. 3 3 4 3 3 3 3 3 3 3 3		Filtered Sample CL04 314.0 PH, TDS 150.1 2540C Calcd CR 200.7 - 200.7 PH, TDS, CRYL, NO3 150.1, 2540C Calcd, 218.6 ORGFM PH, TDS, CRYL, NO3 150.1, 2540C Calcd, 218.6 ORGFM, 300 ORGRMS PH, TDS, NO3 150.1, 2540C Calcd, 300 ORGRMS CL03 300.1B 28D	
Reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For _____ Months		Special Instructions/QC Requirements & Comments:									

Dispatched by: <i>[Signature]</i>	Company: Vedalia Water	Date/Time: 5/23/13 14:00
Requisitioned by:	Company:	Date/Time:
Requisitioned by:	Company:	Date/Time:

Irvine
 17461 Derian Ave
 Suite 100
 Irvine, CA 92614
 phone 949.261.1022 fax 949.260.3299



Chain of Custody Record

Client Contact
 Envirogen Technologies
 510 South Fourth Street
 Henderson, NV 89015
 702-371-9307
 FAX:
Project Name: Envirogen
 Site: NERT- 510 S. Fourth St., Henderson, NV 89015
 P O # 3693

Project Manager: Wendy Prescott
 Tel/Fax: 702-371-9307
 Analysis Turnaround Time
 Calendar (C) or Work Days (W) WORK
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Wendy Prescott
Lab Contact: Sushmitha Reddy
 Date: _____
 Carrier: _____

COC No.: _____
 1 of 1 COCs
Job No.: _____
SDG No.: _____

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	PH, TDS, CRVI, 150.1, 2540C Calcd	CR 200.7 - 200.7	PH, TDS, CRVI, 150.1, 2540C Calcd	218.6 ORGFM	PH, TDS, CRVI, NO3 150.1, 2540C Calcd	218.6 ORGFM, 300 ORGFM	PH, TDS, NO3 150.1, 2540C Calcd	300 ORGFM	CL03 300.1B 28D
PC-55	5/23/13	1108	NORMAL	WATER	3		CL04 3140	1							
ARP-1	5/23/13	1131a	NORMAL	WATER	3			1							
PC-103	5/23/13	1038a	NORMAL	WATER	3			1							
PC-98R	5/23/13	1103a	NORMAL	WATER	3			1							
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											
			NORMAL	WATER											

Reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Special Instructions/QC Requirements & Comments:

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

Received by: *Shirley Brown* Date/Time: 5/23/13 1:00
 Company: *Envirogen*

Received by: _____ Date/Time: _____
 Company: _____

Received by: _____ Date/Time: _____
 Company: _____

Bottle Order Information

Bottle Order: NERT - Quarterly 2nd Wells
 Bottle Order #: 4310
 Date Order Posted: 3/22/2013 2:49:32PM
 Order Status: In Process
 Prepared By: Sushmitha Reddy
Deliver By Date: 3/26/2013 11:59:00PM
 Lab Project Number: 44008228

Order Completion Information

Filled by:
 Sent Date:
 Sent Via:
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
220	1	220	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - 200.7: Chromium	Water	Normal		
220	1	220	Plastic 500ml - unpreserved	None	150.1 - 150: pH	Water	Normal		
220	1	220	Plastic 125mL - sterile	None	2540C_Calcd - 2540: TDS	Water	Normal		
27	1	27	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal		
27	1	27	Plastic 125mL - sterile	None	2540C_Calcd - Total Dissolved Solids	Water	Normal	CLO4	
5	1	5	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal		
5	1	5	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal		
5	1	5	Plastic 125mL - ethylene diamine	Ethylene Diamine	2540C_Calcd - Total Dissolved Solids	Water	Normal		
5	1	5	Plastic 125mL - sterile	None	218.6_ORGFM - Chromium, hexavalent	Water	Normal		
4	1	4	Plastic 500ml - unpreserved	None	300_ORGFMS - Nitrate-N	Water	Normal		
4	1	4	Plastic 500ml - unpreserved	None	300.1B_28D - Chlorate	Water	Normal		
4	1	4	Plastic 500ml - with Nitric Acid	Nitric Acid	150.1 - pH	Water	Normal		
4	1	4	Plastic 125mL - sterile	None	2540C_Calcd - Total Dissolved Solids	Water	Normal		
4	1	4	Plastic 125mL - sterile	None	218.6_ORGFM - Chromium, hexavalent	Water	Normal		
4	1	4	Plastic 125mL - sterile	None	200.7 - Chromium	Water	Normal		
4	1	4	Plastic 125mL - sterile	None		Water	Normal	CLO4	

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5	1	5	Plastic 500ml - unpreserved	None	150.1 - pH 2540C_Calcd - Total Dissolved Solids	Water	Normal
					218.6_ORGFM - Chromium, hexavalent	Water	Normal
					300_ORGFMS - Nitrate-N	Water	Normal
5	1	5	Plastic 500ml - with Nitric Acid	Nitric Acid	200.7 - Chromium	Water	Normal
5	1	5	Plastic 125mL - ethylene diamine	Ethylene Diamine	150.1 - pH	Water	Normal
5	1	5	Plastic 125mL - sterile	None	2540C_Calcd - Total Dissolved Solids	Water	Normal
22	1	22	Plastic 500ml - with Nitric Acid	Nitric Acid	300_ORGFMS - Nitrate-N	Water	Normal
22	1	22	Plastic 500ml - unpreserved	None	300.1B_28D - Chlorate	Water	Normal
22	1	22	Plastic 125mL - ethylene diamine	Ethylene Diamine			
22	1	22	Plastic 125mL - sterile	None			CLO4
9	1	9	Plastic 500ml - unpreserved	None	150.1 - pH	Water	Normal
					2540C_Calcd - Total Dissolved Solids	Water	Normal
9	1	9	Plastic 500ml - with Nitric Acid	Nitric Acid	218.6_ORGFM - Chromium, hexavalent	Water	Normal
9	1	9	Plastic 125mL - sterile	None	200.7 - Chromium	Water	Normal
1	1	1	Plastic 500ml - unpreserved	None		Water	CLO4
					150.1 - pH	Water	Normal
1	1	1	Plastic 125mL - ethylene diamine	Ethylene Diamine	2540C_Calcd - Total Dissolved Solids	Water	Normal
1	1	1	Plastic 125mL - sterile	None	300_ORGFMS - Nitrate-N	Water	Normal
					300.1B_28D - Chlorate	Water	Normal

Notes to Field Staff:

Health and Safety Notes:

Preservative

Comment

Ethylene Diamine

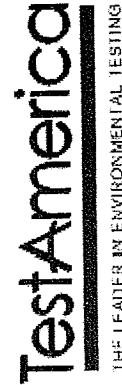
CAUTION! CORROSIVE! CONTAINS ETHYLENEDIAMINE. Harmful if inhaled. Use adequate ventilation. Harmful in contact with skin and eyes. If contact is made, FLUSH IMMEDIATELY with water.

Nitric Acid

CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Please notify us immediately if an error is found in shipment

Shipping Summary



TestAmerica Irvine
 17461 Derian Ave Suite 100
 Irvine, CA 92614-5817
 Phone (949) 261-1022 Fax (949) 260-3297



Bottle Order Information

Bottle Order: NERT - Quarterly M-10
 Bottle Order #: 4296
 Date Order Posted: 3/21/2013 12:00:12PM
 Order Status: Ready To Process
 Prepared By: Sushmitha Reddy
 Deliver By Date: 3/25/2013 11:59:00PM

Project/Event Information

Project Manager: Sushmitha Reddy
 Lab Project Number: 44008210
 Project Ref: NERT - Quarterly
 Event Desc:

Client Samples:

Sets	Bottles/Set	Bottle Type Description	Field Filtered	Preservative	Method	Matrix	Comments
1	1	Plastic 500ml - with Nitric Acid		Nitric Acid	200.7 - B, Cr, Iron, Mn	Water	
1	1	Plastic 500ml - with Sulfuric Acid		Sulfuric Acid	SM4500NH3_D - Ammonia, TIN	Water	
1	1	Plastic 125mL - ethylene diamine		Ethylene Diamine	300.1B_28D - Chlorate	Water	
1	2	Plastic 500ml - unpreserved		None	300_ORGFMS - (MOD) Nitrate-Nitrite as N 300_ORGFM_28D - Chloride 150.1 - pH 2540C_Calcd - Total Dissolved Solids 218.6_ORGFM - Chromium, hexavalent	Water Water Water Water Water	
1	1	Plastic 125mL - sterile		None		Water	CLO4

Please notify us immediately if an error is found in shipment

Shipping Summary



TestAmerica Irvine
 17461 Derian Ave Suite 100
 Irvine, CA 92614-5817
 Phone (949) 261-1022 Fax (949) 260-3297



Project/Event Information

Project Manager: Sushmitha Reddy
 Lab Project Number: 44008228
 Project Ref: NERT - Quarterly 2nd
 Event Desc:

Bottle Order Information

Bottle Order: NERT - Quarterly 2nd RCRA Wells
 Bottle Order #: 4309
 Date Order Posted: 3/22/2013 2:43:14PM
 Order Status: Ready To Process
 Prepared By: Sushmitha Reddy
 Deliver By Date: 3/26/2013 11:59:00PM

Client Samples:

Sets	Bottles/Set	Bottle Type Description	Field Filtered	Preservative	Method	Matrix	Comments
4	2	Plastic 500ml - unpreserved		None	300_ORGFM_28D - 300: Cl/SO4 150.1 - 150: pH 2540C_Calcd - 2540: TDS 2510B - 2510: Conductance	Water Water Water Water	
4	1	Plastic 500ml - with Nitric Acid		Nitric Acid	200.7 - 200.7: B, Cr, Iron, Mn, Na	Water	
4	1	Amber Glass 500mL - Sulfuric Acid		Sulfuric Acid	420.1 - 420: Phenols, Total	Water	
4	1	Amber Glass 250ml - H3PO4		Phosphoric Acid	5310C - 5310C: TOC	Water	
4	1	Amber Glass 1 liter - Sulfuric Acid		Sulfuric Acid	9020B - 9020: TOX	Water	
4	1	Plastic 125mL - sterile		None		Water	CLO4

Please notify us immediately if an error is found in shipment



Groundwater Field Log

This Section Contains:

- Water Sampling Field Logs

Water Sampling Field Log

Well No.: AA-01

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5.7.13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, calm

Well Information:

Total Well Depth: 51.50 feet Time: 544a

Depth to Water: 47.35 feet

	Well Diameter (circle one)		Well		Purge		Purge			
Height of Water Column (L): <u>4.15</u> feet	<table border="0" style="margin: auto;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">2-in.</td> <td style="text-align: center; border-bottom: 1px solid black;">4-in.</td> <td style="text-align: center; border-bottom: 1px solid black;">6-in</td> </tr> </table>	2-in.	4-in.	6-in	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.69</u> gal.	* <u>3</u>	= <u>8 gal</u>
2-in.	4-in.	6-in								

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>546a</u>	—	—	—	—	—
<u>554a</u>	<u>4 gal</u>	<u>6.75</u>	<u>5.15 ms/cm</u>	<u>21.8 °C</u>	<u>cloudy</u>
<u>601a</u>	<u>6 gal</u>	<u>7.06</u>	<u>5.18 ms/cm</u>	<u>22.5 °C</u>	<u>clear</u>
<u>612a</u>	<u>8 gal</u>	<u>7.23</u>	<u>5.16 ms/cm</u>	<u>22.1 °C</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 616a Time Finished: 616a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: well purges dry

TOTAL BOTTLES: 2

Water Sampling Field Log

Well No.: AA-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: 31.40 feet Time: 10:00a

Depth to Water: 30.80 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in	Well Volume (WV)	Purge Factor	Purge Volume	
Height of Water Column (L): <u>60</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* <u>3</u> = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				No sample well considered dry
	gal				
	gal				
	gal				
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: ARP-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, windy

Well Information:

Total Well Depth: 44.2 feet Time: 1121a

Depth to Water: - 24.46 feet

Water Column (L): 19.74 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 10 gal Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1121a</u>	<u>10 gal</u>	<u>clear</u>

Comments: flush
no bolts
plug

Sample Collection Time - 1131a

Analyses: <u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles: <u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

3
TOTAL Bottles-

Water Sampling Field Log

Well No.: ARP-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer Electric pump

Weather Conditions: windy, sunny, warm

Well Information:
Total Well Depth: 540 feet

Time: 1003a

Depth to Water: - 25.94 feet

Water Column (L): 28.06 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 14 gal

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1004a</u>	<u>14 gal</u>	<u>clear</u>

Comments: flush
no blots
plug

Sample Collection Time - 1012a

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ARP-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown

Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy, warm

Well Information:

Total Well Depth: 410 feet Time: 945a

Depth to Water: - 37.43 feet

Water Column (L): 13.57 feet

Well Diameter (circle one)
2-in. 4-in. 6-in.
0.4893 1.9 4.41

Purge Volume

= 7 gal

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>947a</u>	<u>7 gal</u>	<u>clear</u>

Comments: flush no bolts plug

Sample Collection Time - 952a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ARP-4A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer Electric pump

Weather Conditions: windy, sunny, warm

Well Information: _____

Total Well Depth: 33.0 feet Time: 858a

Depth to Water: - 29.43 feet

Water Column (L):	<u>3.57</u> feet	X	Well Diameter (circle one)			= <u>3gal</u>
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>	
			0.4893	1.9	4.41	

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>859a</u>	<u>3gal</u>	<u>clear</u>

Comments: flush no bolts plug

Sample Collection Time - 903a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ARP-5A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer Electric pump

Weather Conditions: windy, clear, warm

Well Information:

Total Well Depth: 38.0 feet Time: 841a

Depth to Water: - 37.91 feet

Water Column (L):	<u>5.09</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>3gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>842a</u>	<u>3gal</u>	<u>clear</u>

Comments: flush no bolts/lock plug

Sample Collection Time - 847a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ARP-6B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm, windy

Well Information:

Total Well Depth: 43.0 feet Time: 8:26a

Depth to Water: - 32.38 feet

Water Column (L): 10.02 feet X

Well Diameter (circle one)		
<u>2-in.</u>	4-in.	6-in.
0.4893	1.9	4.41

 = 5 gal Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>8:27a</u>	<u>5 gal</u>	<u>clear</u>

Comments: flush no bottles dead tubing plug

Sample Collection Time - 8:31a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ARP-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy, warm

Well Information:

Total Well Depth: 39.0 feet Time: 8:11a

Depth to Water: - 30.43 feet

Water Column (L): 8.57 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 4 gal **Purge Volume**

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>8:12a</u>	<u>4 gal</u>	<u>clear</u>

Comments: flush
no bottles
plug
no lock

Sample Collection Time - 8:11a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm

Well Information:

Total Well Depth: 56.0 feet Time: 855a

Depth to Water: - 35.70 feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Water Column (L): 20.3 feet X 0.4893 1.9 4.41 = _____

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

**Cumulative
Volume
Purged**

Time Purge Started

**Observations
of Sample**

sampled 5-6-13 at 227p clear

Comments: pumping well

Sample Collection Time - _____

Analyses:	pH/ TDS	CR	pH/ TDS /NO3	CLO3	CLO4
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-1A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm

Well Information:

Total Well Depth: 56.0 feet Time: 8:58a

Depth to Water: - 24.55 feet

Water Column (L): 31.45 feet X Well Diameter (circle one) 2-in. 4-in. 6-in. Purge Volume = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

No Sample
DTW ONLY

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 5

Water Sampling Field Log

Well No.: ART-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm

Well Information:

Total Well Depth: 56.0 feet Time: 846a

Depth to Water: - 28.15 feet

Water Column (L):	<u>27.85</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>sampled 5-6-13</u>	<u>at 233p</u>	<u>clear</u>

Comments: pumping well

Sample Collection Time -

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information:

Total Well Depth: 56.0 feet Time: 8:49A

Depth to Water: - 27.23 feet

Water Column (L):	<u>28.47</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

NO SAMPLE
DTW ONLY

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 5

Water Sampling Field Log

Well No.: ART-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm

Well Information:

Total Well Depth: 49.0 feet Time: 8:16 A

Depth to Water: - 31.21 feet

Water Column (L):	<u>15.79</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>Sample 5-6-13</u>	<u>at 2:30p</u>	<u>clear</u>

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-3A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 55.0 feet Time: 8:19a

Depth to Water: - 35.65 feet

Water Column (L):	<u>19.35</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in.	4-in.	6-in.	
			0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

DTW ONLY
NO SAMPLE

Comments:

Sample Collection Time - _____

Analyses:	pH/ TDS	CR	pH/ TDS /NO3	CLO3	CLO4
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle

TOTAL Bottles- 1

Water Sampling Field Log

Well No.: ART-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-17-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm

Well Information: _____

Total Well Depth: _____ feet Time: _____

Depth to Water: - _____ feet

Water Column (L):	_____ feet	X	Well Diameter (circle one)			=	Purge Volume
			_____ 2-in.	_____ 4-in.	_____ 6-in.		
			0.4893	1.9	4.41		_____

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

Comments:

pump + wire rolled up on top of well casing
no access to get DTW

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 0

Water Sampling Field Log

Well No.: ART-4A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm

Well Information:

Total Well Depth: 460 feet Time: 8:20a

Depth to Water: - 42.19 feet

Water Column (L):	<u>3.81</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Cumulative Volume Purged

Time Purge Started

Observations of Sample

<u>sampled 5-6-13 at 2:15p</u>	<u>clear</u>
--------------------------------	--------------

Comments: pumping well

Sample Collection Time -

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port O Disposable Bailer Electric pump

Weather Conditions: Warm

Well Information:

Total Well Depth: 360 feet Time: 905a

Depth to Water: - 30.06 feet

Water Column (L):	<u>5.94</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>sampled 5-6-13</u>	<u>at 240p</u>	<u>clear</u>

Comments:

Sample Collection Time -

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-17

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-17-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 38.9 feet Time: 921a

Depth to Water: - 28.33 feet

Water Column (L):	<u>10.57</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

DTW ONLY
NO SAMPLE

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 5

Water Sampling Field Log

Well No.: ART-7A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm

Well Information:

Total Well Depth: 40.0 feet Time: 9:24A

Depth to Water: - 28.80 feet

Water Column (L):	<u>11.20</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in.	4-in.	6-in	
			0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>sampled 5-6-13 at 2:36p</u>	_____	<u>clear</u>

Comments: pumping well

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-7B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy warm

Well Information:

Total Well Depth: 50 feet

Time: 1201p

Depth to Water: - 35.42 feet

Water Column (L):	<u>14.58</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in.	4-in.	6-in.	
			0.4893	1.9	4.41	= <u>64 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1206p</u>	<u>64 gal</u>	<u>clear</u>

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm

Well Information:

Total Well Depth: 50.5 feet Time: 840A

Depth to Water: - 33.53 feet

Water Column (L):	<u>16.97</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>sampled 5-7-13</u>	<u>at 225p</u>	<u>clear</u>

Comments: pumping well

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: ART-8A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: Warm

Well Information:

Total Well Depth: 54.0 feet Time: 844a

Depth to Water: - 28.22 feet

Water Column (L):	<u>25.78</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	_____

NO SAMPLE
DTW ONLY

Comments:

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 5

Water Sampling Field Log

Well No.: ART-9

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-7-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm

Well Information:

Total Well Depth: 43.0 feet Time: 9:20a

Depth to Water: - 35.95 feet

Water Column (L):	<u>7.05</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

**Cumulative
Volume
Purged**

**Observations
of Sample**

Time Purge Started

sampled 5-6-13 at 241p clear

Comments: pumping well

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: BEC-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Well Volume (WV) _____ Purge Factor 3 Purge Volume _____

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____	_____	_____	_____	_____
_____	gal	_____	_____	_____	well not found
_____	gal	_____	_____	_____	NO SAMPLE
_____	gal	_____	_____	_____	NO DATA
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: DM-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: _____ cool

Well Information:

Total Well Depth: 26.50 feet 20.48 two in field Time: 534a

Depth to Water: _____ feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.			

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	No Sample Well Dry
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: DM-5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: COOL

Well Information:

Total Well Depth: 26.50 feet 23.512 feet TWD Time: 545a

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	NO SAMPLE Well DRY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: 14-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: hot, clear, sunny

Well Information:

Total Well Depth: 116.0 feet Time: 954a

Depth to Water: 72.62 feet

Height of Water Column (L): 43.38 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>958a</u>	<u>gal</u>	<u>7.06</u>	<u>2.02 mS/cm</u>	<u>26.7°</u>	<u>Clear</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	<u>Not purged due to well depth - sample collect w/ disp. bailer</u>
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 958a Time Finished: 958a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: H-28A

Project No.: _____

Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keenen Pate, Lance Lopez

Date: 5-16-13

Sampling Method: Electric Pump Dedicated bailer Disposable Non Dedicated Bailer

Weather Conditions: windy, warm, sunny

Well Information:

Total Well Depth: 5100 feet

Time: 956a

Depth to Water: 3837 feet

12.63

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Well volume calculation (optional): $(WV) = 3.14 * r^2 * L * 7.48 \text{ gal./ft}^3 =$ _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>958a</u>	<u>gal</u>	<u>7.42</u>	<u>14.84 mS/cm</u>	<u>27.6°</u>	<u>clear</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	<u>well not purged due to</u>
_____	<u>gal</u>	_____	_____	_____	<u>location</u>
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1003a Time Finished: 1003a

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	1 btl	1 btl

TOTAL BOTTLES- 7

Comments:

Water Sampling Field Log

Well No.: H-48

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Dummy, clouds

Well Information:

Total Well Depth: 32.60 feet Time: 12:00a

Depth to Water: 23.65 feet

Height of Water Column (L):	<u>8.95</u> feet	Well Diameter (circle one)			Purge Factor	Purge Volume
		2-in.	4-in.	6-in.		
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	<u>5.81</u> gal. * <u>3</u> = <u>17 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>127a</u>	---	---	---	---	
<u>133a</u>	<u>5</u> gal	<u>6.14</u>	<u>17.28 mS/cm</u>	<u>23.8°C</u>	<u>black</u>
<u>742</u>	<u>12</u> gal	<u>5.44</u>	<u>17.59 mS/cm</u>	<u>22.6°C</u>	<u>black</u>
	<u>17</u> gal				
	gal				
	gal				
	gal				

Sample Appearance: black
 TDS/PT 100mLs CR
 CLO4 20mLs 125mLs

Sample Collection - Time Start: 8:01a Time Finished: 8:01a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: 4/1 cast casing missed NO inside PVC well casing well purges dry very slow recharge TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: H-58A

Project No.: _____

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, cool

Well Information:

Total Well Depth: 57.0 feet Time: 638a

Depth to Water: 27.56 feet

Height of Water Column (L): <u>29.44</u> feet	Well Diameter (circle one)						
	2-in. 4-in. 6-in.	*	*	*	=	*	=
	0.16 gal/ft	0.65 gal/ft	1.47 gal/ft		=	19.1 gal.	* 3 = 57 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>641a</u>	---	---	---	---	
<u>654a</u>	<u>19 gal</u>	<u>725</u>	<u>15.61 mS/cm</u>	<u>24.4°c</u>	<u>clear</u>
<u>705A</u>	<u>38 gal</u>	<u>730</u>	<u>15.81 mS/cm</u>	<u>23.7°c</u>	<u>clear</u>
<u>716A</u>	<u>57 gal</u>	<u>733</u>	<u>14.98 mS/cm</u>	<u>25.3°c</u>	<u>clear</u>
	gal				
	gal				
	gal				

clear

Sample Appearance: _____

Sample Collection - Time Start: 718A Time Finished: 718A

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: HM-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" Bailer ^{disps}

Weather Conditions: cool, cloudy

Well Information:

Total Well Depth: 36.60 feet Time: 9:39a

Depth to Water: 27.00 feet

Height of Water Column (L): 9.60 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) _____ Purge Factor 3 Purge Volume _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal	<u>7.54</u>	<u>5.74ms/cm</u>	<u>23.5°</u>	<u>clear</u>
	gal				
	gal				
	gal				<u>Well not purged due to location</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 9:44a Time Finished: 9:44a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: HMW-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-1-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Windy clouds

Well Information:

Total Well Depth: 40.0 feet Time: 100p

Depth to Water: 16.5 feet

Height of Water Column (L):	<u>23.5</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
		2-in.	4-in.	6-in.			
		*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>3.76</u> gal.	* <u>3</u>	= <u>11</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>108p</u>	—	—	—	—	—
<u>110p</u>	<u>5</u> gal	<u>7.88</u>	<u>2.51 mS/cm</u>	<u>18.5°C</u>	<u>clear</u>
<u>112p</u>	<u>8</u> gal	<u>7.90</u>	<u>2.29 mS/cm</u>	<u>17.7°C</u>	<u>clear</u>
<u>114p</u>	<u>11</u> gal	<u>7.82</u>	<u>2.26 mS/cm</u>	<u>17.3°C</u>	<u>clear</u>
<u>116p</u>	<u>14</u> gal	<u>7.80</u>	<u>2.26 mS/cm</u>	<u>17.3°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 117p Time Finished: 117p

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: HMW-14

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cloudy cool

Well Information:

Total Well Depth: 40.0 feet Time: 1029a

Depth to Water: 18.84 feet

Height of Water Column (L): 21.16 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>3.38</u> gal. * <u>3</u> =	<u>3.00</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1029A</u>	—	—	—	—	—
<u>1031A</u>	<u>1</u> gal	<u>7.78</u>	<u>3.07 mS/cm</u>	<u>19.8 °C</u>	<u>clear</u>
<u>1032A</u>	<u>2</u> gal	<u>7.67</u>	<u>3.00 mS/cm</u>	<u>19.8 °C</u>	<u>clear</u>
<u>1033A</u>	<u>3</u> gal	<u>7.65</u>	<u>3.05 mS/cm</u>	<u>19.6 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1034a Time Finished: 1034a

Analyses:	<u>CLO4</u>	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: HMW-15

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Cloudy, cool

Well Information:

Total Well Depth: 30.0 feet

Time: 1043a

Depth to Water: 11.95 feet

Height of Water Column (L): 18.05 feet

Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			
<u>0.16 gal/ft</u>	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.58 gal.</u>	* 3	= <u>8.66</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1044a</u>	—	—	—	—	—
<u>1047a</u>	<u>3 gal</u>	<u>7.45</u>	<u>1.90 mS/cm</u>	<u>19.9°C</u>	<u>clear</u>
<u>1048a</u>	<u>6 gal</u>	<u>7.42</u>	<u>3.61 mS/cm</u>	<u>20.2°C</u>	<u>clear</u>
<u>1050a</u>	<u>9 gal</u>	<u>7.36</u>	<u>3.57 mS/cm</u>	<u>20.1°C</u>	<u>clear</u>
<u>1051a</u>	<u>11 gal</u>	<u>7.34</u>	<u>3.65 mS/cm</u>	<u>20.3°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1053a Time Finished: 1053a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: HMW-16

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-1-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: windy, warm

Well Information:

Total Well Depth: 30.0 feet Time: 1233p

Depth to Water: 8.80 feet

Height of Water Column (L): 21.20 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.39</u> gal.	* <u>3</u>	= <u>10</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1234p</u>	—	—	—	—	—
<u>1237p</u>	<u>4</u> gal	<u>7.43</u>	<u>8.06 mS/cm</u>	<u>24.8°</u>	<u>clear</u>
<u>1239p</u>	<u>9</u> gal	<u>7.24</u>	<u>8.02 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
<u>1245p</u>	<u>10</u> gal	<u>7.56</u>	<u>7.79 mS/cm</u>	<u>25.8°</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 1246p Time Finished: 1246p

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: HSW-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 24.0 feet Time: _____

Depth to Water: _____ feet

	Well Diameter (circle one)		Well	Purge	Purge
	2-in. 4-in. 6-in		Volume (WV)	Factor	Volume
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal. * 3 =	_____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NOT FOUND
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: L-635

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump O

Weather Conditions: warm breezy

Well Information:

Total Well Depth: 36.5 feet Time: 120p

Depth to Water: - _____ feet

Water Column (L):	_____ feet	X	Well Diameter (circle one)			=	Purge Volume
			_____ 2-in.	_____ 4-in.	_____ 6-in.		
			0.4893	1.9	4.41		_____

Field Measurements:

Depth Purging From: 2 ft below DTW

Time Purge Started

Cumulative
Volume
Purged

Observations
of Sample

Comments:

No Access
storage facility

Sample Collection Time - _____

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- _____

Water Sampling Field Log

Well No.: L-637

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm breezy

Well Information:

Total Well Depth: 37.5 feet Time: 120p

Depth to Water: - _____ feet

Water Column (L):	_____ feet	X	Well Diameter (circle one)			=	Purge Volume
			_____ 2-in.	_____ 4-in.	_____ 6-in.		
			0.4893	1.9	4.41		_____

Field Measurements:

Depth Purging From: 2 ft below DTW

Time Purge Started

Cumulative
Volume
Purged

Observations
of Sample

Comments:

No Access
storage facility

Sample Collection Time - _____

Analyses:	pH/ TDS	CR	pH/ TDS /NO3	CLO3	CLO4
Bottles:	1 Bottle	1 Bottle	1 Bottle	1 Bottle	1 Bottle

TOTAL Bottles- _____

Water Sampling Field Log

Well No.: M-2A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 47.57 feet Time: 1045A

Depth to Water: 39.25 feet

Height of Water Column (L): 8.32 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft			= <u>1.33</u> gal.	* <u>3</u>	= <u>4</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1048a</u>	-----	-----	-----	-----	
<u>1051a</u>	<u>2</u> gal	<u>7.43</u>	<u>10.99 mS/cm</u>	<u>27.3°</u>	<u>yellow</u>
<u>1053a</u>	<u>3</u> gal	<u>7.43</u>	<u>11.18 mS/cm</u>	<u>26.7°</u>	<u>yellow</u>
<u>1054a</u>	<u>4</u> gal	<u>7.38</u>	<u>11.13 mS/cm</u>	<u>26.5°</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 1056A Time Finished: 1056A

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-5A

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keenen Pate, Lance Lopez Date: 5-16-13

Sampling Method: Electric Pump Dedicated bailer Non Dedicated Bailer

Weather Conditions: Sunny warm

Well Information:

Total Well Depth: 50.0 feet Time: 858a
 Depth to Water: 37.45 feet
 Well Diameter (circle one): 4-in. (circled) 2-in. 6-in.
 Well Volume (WV): 8.15 Purge Factor: 3 Purge Volume: 24 gal
 $8.15 \times 3 = 24 \text{ gal}$

Well volume calculation (optional): $(WV) = 3.14 * r^2 * L * 7.48 \text{ gal./ft}^3 =$ _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>901a</u>	---	---	---	---	
<u>907a</u>	<u>8 gal</u>	<u>7.30</u>	<u>10.90 mS/cm</u>	<u>25.8</u>	<u>clear</u>
<u>912a</u>	<u>16 gal</u>	<u>7.37</u>	<u>11.96 mS/cm</u>	<u>25.3</u>	<u>clear</u>
<u>919a</u>	<u>24 gal</u>	<u>7.17</u>	<u>16.42 mS/cm</u>	<u>25.5</u>	<u>clear</u>
<u>922a</u>	<u>28 gal</u>	<u>7.24</u>	<u>16.55 mS/cm</u>	<u>25.7</u>	<u>clear</u>
<u>928a</u>	<u>32 gal</u>	<u>7.20</u>	<u>17.09 mS/cm</u>	<u>26.0 °C</u>	<u>clear</u>
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 930a Time Finished: 930a

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	1 btl	1 btl

TOTAL BOTTLES- 7

Comments:

Water Sampling Field Log

Well No.: M-1eA

Project No.: _____ Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keenen Pate, Lance Lopez Date: 5-16-13

Sampling Method: Electric Pump Dedicated bailer disposable Non Dedicated Bailer MB

Weather Conditions: windy sunny warm

Well Information:

Total Well Depth: 46.00 feet Time: 1007a

Depth to Water: 38.14 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

7.86

Well Volume (WV) _____ Purge Factor _____ Purge Volume _____

Well volume calculation (optional): $(WV) = 3.14 * r^2 * L * 7.48 \text{ gal./ft}^3 =$ _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1008a</u>	<u>gal</u>	<u>7.52</u>	<u>11.53 mS/cm</u>	<u>25.4</u>	<u>clear</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	<u>well not purged due to location</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: cloudy

Sample Collection - Time Start: 10:10 AM Time Finished: 10:13 AM

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	1 btl	1 btl

TOTAL BOTTLES- 7

Comments:

Water Sampling Field Log

Well No.: M-7B

Project No.: _____

Site: TRONOX LLC- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keenen Pate, Lance Lopez

Date: 5-16-13

Sampling Method: Electric Pump Dedicated bailer O Non Dedicated Bailor O

Weather Conditions: breezy warm

Well Information:

Total Well Depth: 55.0 feet

Time: 833a

Depth to Water: 35.39 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Well Volume (WV) Purge Factor Purge Volume
3.13 x 3 = 9 gal

Well volume calculation (optional): $(WV) = 3.14 * r^2 * L * 7.48 \text{ gal./ft}^3 =$ _____ gallons

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>836a</u>	-----	-----	-----	-----	
<u>838a</u>	<u>3</u> gal	<u>7.76</u>	<u>10.85 mscm</u>	<u>25.8 °C</u>	<u>clear</u>
<u>840a</u>	<u>6</u> gal	<u>7.55</u>	<u>10.92 mscm</u>	<u>24.7 °C</u>	<u>clear</u>
<u>842a</u>	<u>9</u> gal	<u>7.46</u>	<u>10.83 mscm</u>	<u>24.7 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 845a Time Finished: 845a

Analyses:	CLO4	B, Cr, Iron, Mn, Na	pH, TDS, Chloride	TOC	TOX	Phenols, Total
Bottles:	1 btl	1 btl	2 btls	1 btl	1 btl	1 btl

TOTAL BOTTLES- 7

Comments:

Water Sampling Field Log

Well No.: M-10

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: hot, breezy

Well Information:

Total Well Depth: 69.45 feet Time: 12:17p
 Depth to Water: 47.42 feet
 Well Diameter (circle one): 6-in
 Height of Water Column (L): 22.03 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 32.38 gal. * 3 = 97 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>12:30p</u>	----	----	----	----	
<u>12:48p</u>	<u>33 gal</u>	<u>7.40</u>	<u>3.60 mS/cm</u>	<u>26.7 °C</u>	<u>muddy colored</u>
<u>1:04p</u>	<u>66 gal</u>	<u>7.35</u>	<u>3.48 mS/cm</u>	<u>26.8 °C</u>	<u>muddy colored</u>
<u>1:24p</u>	<u>97 gal</u>	<u>7.36</u>	<u>3.39 mS/cm</u>	<u>26.3 °C</u>	<u>muddy color tint</u>
	gal				
	gal				
	gal				

Sample Appearance: Ammonia, TIN tinted mud

Sample Collection - Time Start: 12:16p Time Finished: 12:46p

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: plus NPDES EB-1 taken here before well was purged 12:20p FR-2 taken here 12:02 VD-10
 TOTAL BOTTLES: 4

Water Sampling Field Log

Well No.: M-11

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Hot, breezy

Well Information:

Total Well Depth: 58.0 feet Time: 12:00 p

Depth to Water: 42.45 feet

Height of Water Column (L): 15.55 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 22.85 gal. * 3 = 69 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1211 p</u>	---	---	---	---	
<u>1221 p</u>	<u>23 gal</u>	<u>7.74</u>	<u>3.58 mS/cm</u>	<u>27.4°C</u>	<u>clear</u>
<u>1231 p</u>	<u>46 gal</u>	<u>8.05</u>	<u>3.53 mS/cm</u>	<u>26.4°C</u>	<u>clear</u>
<u>1241 p</u>	<u>69 gal</u>	<u>8.17</u>	<u>3.55 mS/cm</u>	<u>26.8°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1243 p Time Finished: 1243 p

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: Dup EC 3.57 Temp 26.9°C EC TOTAL BOTTLES: 4

Water Sampling Field Log

Well No.: M-12A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: windy warm

Well Information:

Total Well Depth: 50.0 feet Time: 1118a

Depth to Water: 40.12 feet

Height of Water Column (L): 9.88 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.58 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1120a</u>	---	---	---	---	---
<u>1124a</u>	<u>2</u> gal	<u>7.93</u>	<u>7.32 mS/cm</u>	<u>24.2°c</u>	<u>light yellow</u>
<u>1127a</u>	<u>4</u> gal	<u>8.02</u>	<u>7.13 mS/cm</u>	<u>24.3°c</u>	<u>light yellow</u>
<u>1128a</u>	<u>5</u> gal	<u>8.07</u>	<u>7.53 mS/cm</u>	<u>24.6°c</u>	<u>light yellow</u>
---	gal	---	---	---	---
---	gal	---	---	---	---
---	gal	---	---	---	---

Sample Appearance: light yellow

Sample Collection - Time Start: 1130a Time Finished: 1130a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments: Dup EC
1.58 EC
24.8°c Temp

Water Sampling Field Log

Well No.: M-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2"

Weather Conditions: hot, breezy

Well Information:

Total Well Depth: 54.76 feet Time: 104 p

Depth to Water: 44.65 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>10.11</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>14.86</u> gal.	* 3 = <u>45</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>108 p</u>	---	---	---	---	
<u>122 p</u>	<u>15</u> gal	<u>7.60</u>	<u>4.07 mS/cm</u>	<u>28.9°</u>	<u>clear</u>
<u>129 p</u>	<u>30</u> gal	<u>7.51</u>	<u>4.06 mS/cm</u>	<u>27.7°</u>	<u>clear</u>
<u>136 p</u>	<u>45</u> gal	<u>7.39</u>	<u>3.84 mS/cm</u>	<u>29.5°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 139 p Time Finished: 139 p

Analyses:	<u>CLO4</u>	pH / TDS	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	<u>CLO3</u>
Bottles:	<u>1</u> BTL	1 BTL	<u>1</u> BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments: VD-9

Water Sampling Field Log

Well No.: M-14A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, Warm

Well Information:

Total Well Depth: 42.40 feet Time: 901a

Depth to Water: 31.69 feet

Height of Water Column (L): 10.71 feet * 2-in. Well Diameter (circle one) * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. * 1.47 gal/ft = 1.71 gal. * 3 Purge Factor = 5 gal Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>903a</u>	----	----	----	----	
<u>905a</u>	<u>2</u> gal	<u>7.60</u>	<u>4.70 mS/cm</u>	<u>26.2°</u>	<u>clear</u>
<u>906a</u>	<u>4</u> gal	<u>7.60</u>	<u>4.62 mS/cm</u>	<u>25.7°</u>	<u>clear</u>
<u>907a</u>	<u>5</u> gal	<u>7.52</u>	<u>4.68 mS/cm</u>	<u>26.1°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 910a Time Finished: 910a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-19

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 41.20 feet Time: 11:19a

Depth to Water: 33.83 feet

Height of Water Column (L): 7.37 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.17 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1120a</u>	-----	-----	-----	-----	
<u>1125a</u>	<u>2</u> gal	<u>7.54</u>	<u>6.09 mS/cm</u>	<u>27.1°c</u>	<u>clear</u>
<u>1126a</u>	<u>3</u> gal	<u>7.44</u>	<u>6.22 mS/cm</u>	<u>26.9°c</u>	<u>clear</u>
<u>1127a</u>	<u>4</u> gal	<u>7.43</u>	<u>6.33 mS/cm</u>	<u>26.8°c</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1128a Time Finished: 1128a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-21

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, breeze

Well Information:

Total Well Depth: 44.74 feet Time: 1023a

Depth to Water: 40.33 feet

Height of Water Column (L): 4.41 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>.70</u> gal.	* <u>3</u>	= <u>2 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1026a</u>	----	----	----	----	
<u>1030a</u>	<u>1</u> gal	<u>7.53</u>	<u>4.25 mS/cm</u>	<u>26.0 °C</u>	<u>muddy</u>
<u>1032a</u>	<u>1.5</u> gal	<u>7.42</u>	<u>4.33 mS/cm</u>	<u>26.6 °C</u>	<u>muddy</u>
<u>1036a</u>	<u>2</u> gal	<u>7.30</u>	<u>4.16 mS/cm</u>	<u>27.6 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

clear

Sample Appearance: _____

Sample Collection - Time Start: 1038a Time Finished: 1038a

Analyses:	<input checked="" type="radio"/> CLO4	<input checked="" type="radio"/> pH / TDS	<input checked="" type="radio"/> CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-22A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, breezy

Well Information:

Total Well Depth: 36.92 feet Time: 1101a

Depth to Water: 29.24 feet

Height of Water Column (L): 7.68 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.22 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1104a</u>	—	—	—	—	
<u>1106a</u>	<u>2 gal</u>	<u>7.23</u>	<u>13.54 mS/cm</u>	<u>27.9 °C</u>	<u>yellow</u>
<u>1107a</u>	<u>3 gal</u>	<u>7.23</u>	<u>13.56 mS/cm</u>	<u>27.7 °C</u>	<u>yellow</u>
<u>1108a</u>	<u>4 gal</u>	<u>7.25</u>	<u>13.57 mS/cm</u>	<u>27.6 °C</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: GLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: Deep EC 13.63 27.3
EC temp

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-23

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 44.47 feet Time: 952a

Depth to Water: 32.90 feet

Height of Water Column (L): 11.57 feet * 2-in. Well Diameter (circle one) * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. * 1.47 gal/ft = 1.85 gal. * 3 Purge Factor = 6 gal Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>954a</u>	---	---	---	---	
<u>958a</u>	<u>2 gal</u>	<u>7.82</u>	<u>561 mS/cm</u>	<u>75.8 F / 24.3 C</u>	<u>clear</u>
<u>959a</u>	<u>4 gal</u>	<u>7.55</u>	<u>555 mS/cm</u>	<u>76.3 F / 24.6 C</u>	<u>clear</u>
<u>1000a</u>	<u>6 gal</u>	<u>7.51</u>	<u>5.57 mS/cm</u>	<u>76.4 F / 24.6 C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1000a Time Finished: 1002a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: VD-6 taken here TOTAL BOTTLES: 4

Water Sampling Field Log

Well No.: M-25

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot sunny

Well Information:

Total Well Depth: 41.47 feet Time: 1233p

Depth to Water: 30.70 feet

Height of Water Column (L): 10.77 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.72 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1234p</u>	----	----	----	----	
<u>1236p</u>	<u>2 gal</u>	<u>7.15</u>	<u>9.31 mS/cm</u>	<u>26.0°</u>	<u>light yellow</u>
<u>1239p</u>	<u>4 gal</u>	<u>7.21</u>	<u>9.58 mS/cm</u>	<u>25.7°</u>	<u>light yellow</u>
<u>1241p</u>	<u>5 gal</u>	<u>7.28</u>	<u>9.51 mS/cm</u>	<u>25.7°</u>	<u>light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 1242p Time Finished: 1242p

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: M-29

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: _____

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	NOT sampled due to
_____	_____ gal	_____	_____	_____	safety issues
_____	_____ gal	_____	_____	_____	Basement of Unit 6
_____	_____ gal	_____	_____	_____	Tronox
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-31A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 55.0 feet Time: 947a

Depth to Water: 43.90 feet

Height of Water Column (L): 11.1 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>1.77</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>949a</u>	----	----	----	----	
<u>952a</u>	<u>2</u> gal	<u>8.13</u>	<u>1.27 mS/cm</u>	<u>20.6°C</u>	<u>cloudy</u>
<u>955a</u>	<u>4</u> gal	<u>7.98</u>	<u>1.12 mS/cm</u>	<u>20.6°C</u>	<u>clear</u>
<u>956a</u>	<u>5</u> gal	<u>7.89</u>	<u>1.13 mS/cm</u>	<u>20.8°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 958a Time Finished: 958a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-320

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.	Well Volume (WV)	Purge Factor	Purge Volume	
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal. * 3 = _____	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	<p><i>No Access</i></p> <p><i>in area where tailings</i></p> <p><i>were removed</i></p> <p><i>stands ~ 15' above</i></p> <p><i>ground</i></p>
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-33

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 46.78 feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	<u>No Access</u>
_____	_____ gal	_____	_____	_____	<u>in area where</u>
_____	_____ gal	_____	_____	_____	<u>pileings were removed</u>
_____	_____ gal	_____	_____	_____	<u>stands ~ 15' in air</u>
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments: _____

Water Sampling Field Log

Well No.: M-35

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 39.70 feet Time: 1102

Depth to Water: 36.40 feet

Height of Water Column (L): 9.30 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.48 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1107a</u>	----	----	----	----	
<u>1109a</u>	<u>2</u> gal	<u>7.51</u>	<u>4.67 mS/cm</u>	<u>28.5°</u>	<u>clear</u>
<u>1110a</u>	<u>3</u> gal	<u>7.39</u>	<u>4.45 mS/cm</u>	<u>28.2°</u>	<u>clear</u>
<u>1111a</u>	<u>4</u> gal	<u>7.39</u>	<u>4.84 mS/cm</u>	<u>27.6°</u>	<u>clear</u>
<u>1112a</u>	<u>5</u> gal	<u>7.42</u>	<u>5.05 mS/cm</u>	<u>27.4°</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1114a Time Finished: 1114a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

VD-8

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-36

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Hot, breezy, clear

Well Information:

Total Well Depth: 37.85 feet Time: 1119a

Depth to Water: 30.91 feet

Height of Water Column (L): 6.94 feet

Well Diameter (circle one)			Well Volume (VV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1.1</u> gal.	<u>3</u>	<u>3 gal</u>

* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1129</u>	<u>1 gal</u>	<u>7.08</u>	<u>16.46 mS/cm</u>	<u>26.7</u>	<u>yellow</u>
<u>1130a</u>	<u>2 gal</u>	<u>7.11</u>	<u>16.99 mS/cm</u>	<u>26.3</u>	<u>yellow</u>
<u>1134</u>	<u>3 gal</u>	<u>7.08</u>	<u>16.84 mS/cm</u>	<u>28.2</u>	<u>yellow</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: yellow

Sample Collection - Time Start: 1136a Time Finished: 1136a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: M-37

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 37.18 feet Time: 1249p

Depth to Water: 30.13 feet

Height of Water Column (L): 7.05 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.			<u>1.12 gal.</u>	<u>3</u>	<u>3 gal</u>

* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1250p</u>	----	----	----	----	
<u>1253p</u>	<u>1 gal</u>	<u>7.12</u>	<u>8.82 mS/cm</u>	<u>26.5°</u>	<u>clear</u>
<u>1254p</u>	<u>2 gal</u>	<u>7.09</u>	<u>8.88 mS/cm</u>	<u>26.4°</u>	<u>clear</u>
<u>1256p</u>	<u>3 gal</u>	<u>7.05</u>	<u>8.79 mS/cm</u>	<u>26.3°</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1257p Time Finished: 1257p

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: M-38

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, clear, breezy

Well Information:

Total Well Depth: 3682 feet Time: 1122a

Depth to Water: 2996 feet

Height of Water Column (L): 6.86 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in			= <u>1.09</u> gal.	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1125a</u>	<u>1</u> gal	<u>7.30</u>	<u>16.25 mS/cm</u>	<u>27.2°</u>	<u>yellow</u>
<u>1128a</u>	<u>2</u> gal	<u>7.04</u>	<u>16.79 mS/cm</u>	<u>27.3°</u>	<u>yellow</u>
<u>1130a</u>	<u>3</u> gal	<u>7.21</u>	<u>16.39 mS/cm</u>	<u>26.4°</u>	<u>yellow</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: yellow

Sample Collection - Time Start: 1131a Time Finished: 1131a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

CRVI sample collected 5/16/13

Water Sampling Field Log

Well No.: M-44

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny warm clouds

Well Information:

Total Well Depth: 37.65 feet Time: 1238 A

Depth to Water: 23.40 feet

Height of Water Column (L): <u>14.25</u> feet	Well Diameter (circle one)	Purge	Purge
	2-in. 4-in. 6-in.	Volume (WV)	Factor
	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>2.28</u> gal.	* 3 = <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1247p</u>	---	---	---	---	
<u>1250p</u>	<u>3 gal</u>	<u>7.63</u>	<u>9.82 mscm</u>	<u>24.9°</u>	<u>clear</u>
<u>1252p</u>	<u>5 gal</u>	<u>7.57</u>	<u>9.91 mscm</u>	<u>25.3°</u>	<u>clear</u>
<u>1254p</u>	<u>7 gal</u>	<u>7.54</u>	<u>9.67 mscm</u>	<u>25.1°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1256p Time Finished: 1256p

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: EB-1 taken here before sampling well 1246p CLO4, CR, pH, TDS, CRVI 3 btl

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-48A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Sunny some clouds warm

Well Information:

Total Well Depth: 40.0 feet Time: 1219p

Depth to Water: 29.18 feet

Height of Water Column (L): 10.82 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.73</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1222p</u>	—	—	—	—	—
<u>1225p</u>	<u>2 gal</u>	<u>7.62</u>	<u>4.65 mg/cm</u>	<u>26.6°</u>	<u>clear</u>
<u>1226p</u>	<u>4 gal</u>	<u>7.55</u>	<u>4.53 mg/cm</u>	<u>26.3°</u>	<u>clear</u>
<u>1227p</u>	<u>5 gal</u>	<u>7.50</u>	<u>4.56 mg/cm</u>	<u>26.4°</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 1228p Time Finished: 1228p

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments: 10-3

Water Sampling Field Log

Well No.: M-52

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 47.38 feet Time: 10:04 A

Depth to Water: 39.43 feet

Height of Water Column (L): 7.95 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.27 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1007a</u>	----	----	----	----	
<u>1009a</u>	<u>2</u> gal	<u>7.48</u>	<u>6.91 mS/cm</u>	<u>25.5°</u>	<u>slightly yellow</u>
<u>1011a</u>	<u>3</u> gal	<u>7.54</u>	<u>6.61 mS/cm</u>	<u>25.8°</u>	<u>slightly yellow</u>
<u>1012a</u>	<u>4</u> gal	<u>7.53</u>	<u>6.37 mS/cm</u>	<u>25.9°</u>	<u>slightly yellow</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: slightly yellow

Sample Collection - Time Start: 1015a Time Finished: 1015a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	pH/TDS/CRVI	pH/TDS/CRVI/NO3	pH/TDS/NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 45.0 feet Time: 1148A

Depth to Water: 25.43 feet

Height of Water Column (L): 19.57 feet

Well Diameter (circle one)		
2-in.	4-in.	6-in

*0.16 gal/ft 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments: _____

Water Sampling Field Log

Well No.: M-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: WARM, breezy

Well Information:

Total Well Depth: 40.0 feet Time: 12:05p

Depth to Water: 26.91 feet

Height of Water Column (L): 13.09 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-57A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, warm

Well Information:

Total Well Depth: 42.40 feet Time: 708a

Depth to Water: 28.86 feet

Height of Water Column (L):	<u>13.54</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
		2-in.	4-in.	6-in.			
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.16</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>711a</u>	---	---	---	---	
<u>713a</u>	<u>2</u> gal	<u>7.46</u>	<u>3.96 mS/cm</u>	<u>25.2°c</u>	<u>muddy</u>
<u>714a</u>	<u>4</u> gal	<u>7.49</u>	<u>4.10 mS/cm</u>	<u>25.3°c</u>	<u>cloudy</u>
<u>716a</u>	<u>10</u> gal	<u>7.56</u>	<u>4.15 mS/cm</u>	<u>25.1°c</u>	<u>slightly cloudy</u>
	gal				
	gal				
	gal				

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 718a Time Finished: 718a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
	Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, breezy, cloudy

Well Information:

Total Well Depth: 45.0 feet Time: 1320

Depth to Water: 29.58 feet

Height of Water Column (L): 15.42 feet * Well Diameter (circle one) * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	<u>DTW ONLY</u>
_____	_____ gal	_____	_____	_____	<u>NO SAMPLE</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: M-2e0

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 43.0 feet Time: 1244p

Depth to Water: 27.74 feet

Height of Water Column (L): <u>15.26</u> feet	Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
	2-in. 4-in. 6-in.			
	0.16 gal/ft 0.65 gal/ft 1.47 gal/ft	=	gal.	* 3 =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	<u>DTW ONLY</u>
_____	_____ gal	_____	_____	_____	<u>NO SAMPLE</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-64

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm Sunny

Well Information:

Total Well Depth: 37.50 feet Time: 1107a

Depth to Water: 25.60 feet

Height of Water Column (L): 11.9 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.9 gal. * 3 = 6 gal

Well Diameter (circle one) Well Volume (WV) Purge Factor Purge Volume
2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1110</u>	---	---	---	---	
<u>1111</u>	<u>2 gal</u>	<u>7.23</u>	<u>7.87 mS/cm</u>	<u>81.2° F</u>	<u>Very slight yellow</u>
<u>1114</u>	<u>4 gal</u>	<u>7.26</u>	<u>9.20 mS/cm</u>	<u>80.5° F</u>	<u>same</u>
<u>1117</u>	<u>6 gal</u>	<u>7.41</u>	<u>9.41 mS/cm</u>	<u>82.5° F</u>	<u>same</u>
<u>1122</u>	<u>8 gal</u>	<u>7.19</u>	<u>9.29 mS/cm</u>	<u>81.5° F</u>	<u>same</u>
	gal				
	gal				

Sample Appearance: Very slightly yellow

Sample Collection - Time Start: 1123 Time Finished: 1123

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: slimy warm

Well Information:

Total Well Depth: 39.20 feet Time: 1136a

Depth to Water: 28.0 feet

Height of Water Column (L): 11.20 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.79 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1138a</u>	-----	-----	-----	-----	
<u>1140a</u>	<u>2 gal</u>	<u>7.20</u>	<u>14.15 mS/cm</u>	<u>80.7°</u>	<u>yellow</u>
<u>1141a</u>	<u>4 gal</u>	<u>7.11</u>	<u>14.65 mS/cm</u>	<u>79.7°</u>	<u>yellow</u>
<u>1142a</u>	<u>5 gal</u>	<u>7.12</u>	<u>14.75 mS/cm</u>	<u>79.5°</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 1145a Time Finished: 1145a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: VD-7 taken here EB-2 collected before moving to next well **TOTAL BOTTLES: 3**

Water Sampling Field Log

Well No.: M-1e1e

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: war

Well Information:

Total Well Depth: 42.50 feet Time: 1155a

Depth to Water: 30.10 feet

Height of Water Column (L): 12.40 feet * 2-in. Well Diameter (circle one) * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.98 gal. * 3 = 6 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1156a</u>	----	----	----	----	
<u>1158a</u>	<u>2 gal</u>	<u>7.11</u>	<u>15.25 mS/cm</u>	<u>78.9°F</u>	<u>yellow</u>
<u>1159a</u>	<u>4 gal</u>	<u>6.99</u>	<u>15.19 mS/cm</u>	<u>78.4°F</u>	<u>yellow</u>
<u>1201p</u>	<u>10 gal</u>	<u>6.99</u>	<u>15.42 mS/cm</u>	<u>78.6°F</u>	<u>yellow</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: yellow

Sample Collection - Time Start: 1203p Time Finished: 1203p

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

Comments:

DUP EC
15.68
Temp
78.5
EC

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm, clear

Well Information:

Total Well Depth: 38.00 feet Time: 540a

Depth to Water: 21.45 feet

Height of Water Column (L): 10.55 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.64</u> gal.	* <u>3</u>	= <u>8</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>543a</u>	-----	-----	-----	-----	
<u>545a</u>	<u>3</u> gal	<u>7.06</u>	<u>6.14 mS/cm</u>	<u>25.6°</u>	<u>light yellow</u>
<u>547a</u>	<u>6</u> gal	<u>7.20</u>	<u>6.41 mS/cm</u>	<u>25.0°</u>	<u>light yellow</u>
<u>548a</u>	<u>8</u> gal	<u>7.37</u>	<u>6.46 mS/cm</u>	<u>25.1°</u>	<u>light yellow</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 550a Time Finished: 550a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-108

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Not, clear, sunny

Well Information:

Total Well Depth: 41.0 feet Time: 1138a

Depth to Water: 25.78 ~~30.40~~ feet

Height of Water Column (L): 15.22 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.43 gal. * 3 = 7 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1140a</u>	-----	-----	-----	-----	
<u>1142a</u>	<u>3 gal</u>	<u>7.36</u>	<u>6.33 mS/cm</u>	<u>27.5°C</u>	<u>clear</u>
<u>1143a</u>	<u>5 gal</u>	<u>7.39</u>	<u>6.70 mS/cm</u>	<u>26.9°C</u>	<u>clear</u>
<u>1144a</u>	<u>7 gal</u>	<u>7.38</u>	<u>6.76 mS/cm</u>	<u>26.5°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1145a Time Finished: 1145a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-209

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, windy

Well Information:

Total Well Depth: 40.0 feet Time: 1223p

Depth to Water: 31.30 feet

Height of Water Column (L): 8.70 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	= <u>139</u> gal.	* <u>3</u>	= <u>4 gal</u>
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1225p</u>	---	---	---	---	
<u>1228p</u>	<u>2</u> gal	<u>7.34</u>	<u>5.06 mS/cm</u>	<u>79.8 °F</u>	<u>clear</u>
<u>1229p</u>	<u>3</u> gal	<u>7.36</u>	<u>4.95 mS/cm</u>	<u>78.9 °F</u>	<u>clear</u>
<u>1230p</u>	<u>4</u> gal	<u>7.36</u>	<u>5.04 mS/cm</u>	<u>78.3 °F</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1231p Time Finished: 1231p

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-70

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: sunny, warm

Well Information:

Total Well Depth: 41.0 feet Time: 700a

Depth to Water: 32.85 feet

Height of Water Column (L): 8.15 feet * Well Diameter (circle one)
2-in. 4-in. 6-in. * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.30 gal. * 3 = 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>702a</u>	-----	-----	-----	-----	
<u>704a</u>	<u>2</u> gal	<u>7.25</u>	<u>6.61 mscm</u>	<u>25.4 °C</u>	<u>clear light yellow</u>
<u>705a</u>	<u>3</u> gal	<u>7.29</u>	<u>6.75 mscm</u>	<u>25.2 °C</u>	<u>clear light yellow</u>
<u>706a</u>	<u>4</u> gal	<u>7.32</u>	<u>6.81 mscm</u>	<u>25.1 °C</u>	<u>clear light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: clear very light yellow

Sample Collection - Time Start: 708a Time Finished: 708a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-71

Project No.: _____

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, Warm

Well Information:

Total Well Depth: 43.0 feet Time: 7:14a

Depth to Water: 34.43 feet

Height of Water Column (L): 8.57 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.37</u> gal.	* <u>3</u>	= <u>4</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:15a</u>	-----	-----	-----	-----	
<u>7:18a</u>	<u>2</u> gal	<u>7.15</u>	<u>10.69 mS/cm</u>	<u>25.5°C</u>	<u>yellow</u>
<u>7:19a</u>	<u>3</u> gal	<u>7.09</u>	<u>10.90 mS/cm</u>	<u>25.5°C</u>	<u>yellow</u>
<u>7:20a</u>	<u>4</u> gal	<u>7.07</u>	<u>10.87 mS/cm</u>	<u>25.5°C</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 7:22a Time Finished: 7:22a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny warm

Well Information:

Total Well Depth: 360 feet Time: 7:27a

Depth to Water: 31.44 feet

Height of Water Column (L): 4.56 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>.72</u> gal.	* <u>3</u>	= <u>2 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:29a</u>	----	----	----	----	
<u>7:31a</u>	<u>1</u> gal	<u>6.74</u>	<u>9.90 mS/cm</u>	<u>27.0°c</u>	<u>light yellow</u>
<u>7:31a</u>	<u>1.5</u> gal	<u>6.55</u>	<u>9.51 mS/cm</u>	<u>27.0°c</u>	<u>light yellow</u>
<u>7:32a</u>	<u>2</u> gal	<u>6.75</u>	<u>9.98 mS/cm</u>	<u>26.8°c</u>	<u>light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 7:34a Time Finished: 7:34a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-13

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny

Well Information:

Total Well Depth: 36.0 feet Time: 1214p

Depth to Water: 28.90 feet

Height of Water Column (L): 7.1 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.13 gal. * 3 = 3 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1219p</u>	<u>1</u> gal	<u>7.24</u>	<u>8.56 mS/cm</u>	<u>30.2°c</u>	<u>yellow</u>
<u>1224p</u>	<u>2</u> gal	<u>7.15</u>	<u>7.93 mS/cm</u>	<u>31.9°c</u>	<u>yellow</u>
<u>1230p</u>	<u>3</u> gal	<u>7.20</u>	<u>8.53 mS/cm</u>	<u>34.1°c</u>	<u>yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: yellow

Sample Collection - Time Start: 1235p Time Finished: 1235p

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments: well purges dry

Water Sampling Field Log

Well No.: M-74

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 39.0 feet Time: 1156A

Depth to Water: 28.72 feet

Height of Water Column (L): 10.28 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft			= <u>1.64</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1158a</u>	----	----	----	----	
<u>1200p</u>	<u>2 gal</u>	<u>7.40</u>	<u>650 mS/cm</u>	<u>27.6°</u>	<u>clear</u>
<u>1201p</u>	<u>4 gal</u>	<u>7.50</u>	<u>707 mS/cm</u>	<u>27.0°</u>	<u>clear</u>
<u>1202p</u>	<u>5 gal</u>	<u>7.39</u>	<u>697 mS/cm</u>	<u>26.8°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1203p Time Finished: 1203p

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: well casing PVC - damaged broken ~ 3 ft down from TOC

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 53.90 feet Time: 958a

Depth to Water: 41.55 feet

Height of Water Column (L): 12.35 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.97 gal. * 3 = 6 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (VV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1000a</u>	----	----	----	----	
<u>1003</u>	<u>2</u> gal	<u>7.77</u>	<u>5.67</u> mscm	<u>26.8</u> °	<u>slightly yellow</u>
<u>1004</u>	<u>4</u> gal	<u>7.63</u>	<u>5.82</u> mscm	<u>26.3</u> °	<u>slightly yellow</u>
<u>1006</u>	<u>6</u> gal	<u>7.65</u>	<u>5.84</u> mscm	<u>26.4</u> °	<u>slightly yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: slightly yellow

Sample Collection - Time Start: 1007a Time Finished: 1007a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-76

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 54.60 feet Time: 933a

Depth to Water: 38.76 feet

Height of Water Column (L):	<u>15.84</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
		2-in.	4-in.	6-in.			
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>935a</u>	---	---	---	---	---
<u>939a</u>	<u>3</u> gal	<u>7.75</u>	<u>6.03 mS/cm</u>	<u>25.3°</u>	<u>slight yellow tint</u>
<u>945a</u>	<u>6</u> gal	<u>7.69</u>	<u>6.10 mS/cm</u>	<u>25.7°</u>	<u>same</u>
<u>949a</u>	<u>8</u> gal	<u>7.60</u>	<u>6.12 mS/cm</u>	<u>26.9°</u>	<u>same</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: slight yellow tint

Sample Collection - Time Start: 953a Time Finished: 953a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-77

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer ^{Disposable} Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 47.20 feet Time: 8:20 A
 Depth to Water: 36.10 feet
 Height of Water Column (L): 11.10 feet

Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			

0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>8:50a</u>	gal	<u>7.95</u>	<u>3.51 mS/cm</u>	<u>27.5°</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	<u>not purged due to damage</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 8:50a Time Finished: 8:58a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-118

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, cloudy, breezy

Well Information:

Total Well Depth: 4360 feet Time: 1153A

Depth to Water: 26.07 feet

Height of Water Column (L): 17.53 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal. * 3	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, windy

Well Information:

Total Well Depth: 37.60 feet Time: 1209p

Depth to Water: 29.19 feet

Height of Water Column (L): 8.41 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in

Well Volume (WV) * Purge Factor = Purge Volume
 = 1.34 gal. * 3 = 4 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1211p</u>	---	---	---	---	
<u>1213p</u>	<u>2</u> gal	<u>7.48</u>	<u>5.78 mS/cm</u>	<u>76.4° F</u>	<u>clear</u>
<u>1214p</u>	<u>3</u> gal	<u>7.42</u>	<u>5.85 mS/cm</u>	<u>77.2° F</u>	<u>clear</u>
<u>1216p</u>	<u>4</u> gal	<u>7.44</u>	<u>5.81 mS/cm</u>	<u>76.3° F</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1218p Time Finished: 1218p

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 43.70 feet Time: 623a

Depth to Water: 35.19 feet

Height of Water Column (L): 8.51 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 5.53 gal. * 3 = 17 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>625a</u>	-----	-----	-----	-----	
<u>628a</u>	<u>5</u> gal	<u>7.43</u>	<u>2.56</u> mS/cm	<u>23.9</u> °C	<u>clear</u>
<u>631a</u>	<u>10</u> gal	<u>7.40</u>	<u>2.64</u> mS/cm	<u>23.5</u> °C	<u>clear</u>
<u>639a</u>	<u>15</u> gal	<u>7.66</u>	<u>2.70</u> mS/cm	<u>24.2</u> °C	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 642a Time Finished: 642a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: well purged dry

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-81A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 41.60 feet Time: 0020

Depth to Water: 35.30 feet

Height of Water Column (L): <u>6.3</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>4.09</u> gal.	* 3	= <u>13</u> gal.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>0040</u>	-----	-----	-----	-----	
<u>0080</u>	<u>5</u> gal	<u>7.28</u>	<u>6.47 mS/cm</u>	<u>24.5°</u>	<u>slight yellow tint</u>
<u>0110</u>	<u>9</u> gal	<u>7.28</u>	<u>6.20 mS/cm</u>	<u>24.1°</u>	<u>Very slight yellow tint</u>
<u>0140</u>	<u>13</u> gal	<u>7.33</u>	<u>6.20 mS/cm</u>	<u>23.7°</u>	<u>Very slight yellow tint</u>
	gal				
	gal				
	gal				

Sample Appearance: Very slightly yellow

Sample Collection - Time Start: 0110 Time Finished: 0110

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny warm

Well Information:

Total Well Depth: 42.50 feet Time: 6:47a

Depth to Water: 30.98 feet

Height of Water Column (L): 11.52 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.84 gal. * 3 = 6 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:48a</u>	-----	-----	-----	-----	
<u>6:51a</u>	<u>2</u> gal	<u>7.50</u>	<u>3.43</u> mS/cm	<u>23.6</u> °C	<u>clear</u>
<u>6:53a</u>	<u>4</u> gal	<u>7.45</u>	<u>3.37</u> mS/cm	<u>23.4</u> °C	<u>clear</u>
<u>6:55a</u>	<u>6</u> gal	<u>7.44</u>	<u>3.36</u> mS/cm	<u>23.1</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 6:56a Time Finished: 6:56a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-920

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 48.50 feet Time: 1027a

Depth to Water: 35.80 feet

Height of Water Column (L): 12.70 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in			<u>2.0</u> gal.	<u>3</u>	<u>6</u> gal

* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1029a</u>	---	---	---	---	
<u>1033a</u>	<u>2 gal</u>	<u>7.92</u>	<u>2.80 mS/cm</u>	<u>25.3 °C</u>	<u>clear</u>
<u>1035a</u>	<u>4 gal</u>	<u>7.88</u>	<u>2.61 mS/cm</u>	<u>24.5 °C</u>	<u>clear</u>
<u>1037a</u>	<u>6 gal</u>	<u>7.79</u>	<u>2.60 mS/cm</u>	<u>24.7 °C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1038a Time Finished: 1038a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny Warm

Well Information:

Total Well Depth: 490 feet Time: 1044a

Depth to Water: 34.83 feet

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	Bailer stuck in well
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH/TDS	CR	pH/TDS/CRVI	pH/TDS/CRVI/NO3	pH/TDS/NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy, warming

Well Information:

Total Well Depth: 30.0 feet Time: 1119a

Depth to Water: 18.24 feet

Height of Water Column (L): 11.76 feet

Well Diameter (circle one)	Well Volume (VV)	Purge Factor	Purge Volume
2-in. 4-in. 6-in.			
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>1.88</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1121a</u>	----	----	----	----	
<u>1124</u>	<u>2 gal</u>	<u>7.62</u>	<u>6.90 mS/cm</u>	<u>24.9°</u>	<u>clear</u>
<u>1125</u>	<u>4 gal</u>	<u>7.62</u>	<u>6.86 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
<u>1126</u>	<u>6 gal</u>	<u>7.60</u>	<u>6.86 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1127a Time Finished: 1127a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: dup EC 24.8 temp 6.86 EC **TOTAL BOTTLES: 3**

Water Sampling Field Log

Well No.: M-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Breezy Sunny

Well Information:

Total Well Depth: 16.90 feet

Total Well Depth taken in field
Time: 1011A

Depth to Water: 16.20 feet

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	<u>Well Dry</u>
_____	_____ gal	_____	_____	_____	<u>NO SAMPLE</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / N
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOT. _____

Comments: _____

Water Sampling Field Log

Well No.: M-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 52.50 feet Time: 1048a

Depth to Water: 39.25 feet

Height of Water Column (L): 13.25 feet

Well Diameter (circle one)	Purge Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.			
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>2.12</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1050a</u>	----	----	----	----	
<u>1052a</u>	<u>2</u> gal	<u>7.64</u>	<u>553</u> μ S/cm	<u>25.3</u> °C	<u>clear</u>
<u>1054a</u>	<u>4</u> gal	<u>7.51</u>	<u>5.69</u> mS/cm	<u>24.7</u> °C	<u>clear</u>
<u>1056a</u>	<u>6</u> gal	<u>7.48</u>	<u>5.70</u> mS/cm	<u>24.9</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1058A Time Finished: 1058A

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-98

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: windy, warm, sunny

Well Information:

Total Well Depth: 33.40 feet 33.70 TWP in Field Time: 1017a

Depth to Water: _____ feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in				
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	Well considered dry
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-99

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" dis bail

Weather Conditions: Warm Sunny

Well Information:

Total Well Depth: 35.59 feet Time: 800a
 Depth to Water: 33.09 feet
 Height of Water Column (L): 2.50 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 =

Well Diameter (circle one)
 2-in. 4-in. 6-in

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>802a</u>	<u>gal</u>	<u>7.65</u>	<u>2.44 mS/cm</u>	<u>24.0°C</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				<u>Well not purged due to low volume w-</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 805a Time Finished: 805a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-100

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information: TWD in Field

Total Well Depth: 33.81 feet ~~33.89~~ Time: 8:30a

Depth to Water: _____ feet

	Well Diameter (circle one)						
	2-in. 4-in. 6-in						
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	_____ gal.	* 3	=

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	No Sample well dry
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-101

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information: Two in Field

Total Well Depth: 32.15 feet 32.45 Time: 8:50a

Depth to Water: 32. feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	Well dry
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-115

Project No.: _____

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, Warm, clear

Well Information:

Total Well Depth: 47.50 feet Time: 915a

Depth to Water: 37.20 feet

Height of Water Column (L): 10.30 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (VV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.64</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>918a</u>	-----	-----	-----	-----	
<u>920a</u>	<u>2 gal</u>	<u>7.11</u>	<u>3.18 mS/cm</u>	<u>26.0°C</u>	<u>clear</u>
<u>922a</u>	<u>4 gal</u>	<u>7.72</u>	<u>3.19 mS/cm</u>	<u>25.3°C</u>	<u>clear</u>
<u>923a</u>	<u>5 gal</u>	<u>7.67</u>	<u>3.19 mS/cm</u>	<u>25.5°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 925a Time Finished: 925a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	<u>pH/TDS/CRVI</u>	<u>pH/TDS/CRVI/NO3</u>	<u>pH/TDS/NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

Comments: Dup EC 25.4 temp 3.22 EC TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 55.60 feet Time: 851a

Depth to Water: 40.62 feet

Height of Water Column (L): <u>14.98</u> feet	Well Diameter (circle one)						
	2-in. 4-in. 6-in						
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	<u>2.39</u> gal.	*	<u>3</u> = <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>853a</u>	—	—	—	—	—
<u>857a</u>	<u>3 gal</u>	<u>7.37</u>	<u>17.74 mS/cm</u>	<u>26.5 °C</u>	<u>clear</u>
<u>859a</u>	<u>5 gal</u>	<u>7.37</u>	<u>17.72 mS/cm</u>	<u>26.0 °C</u>	<u>clear</u>
<u>901a</u>	<u>7 gal</u>	<u>7.39</u>	<u>17.83 mS/cm</u>	<u>26.3 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 903a Time Finished: 903a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: M-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 53.39 feet Time: 931a

Depth to Water: 36.08 feet

Height of Water Column (L): <u>17.31</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.76</u> gal.	* <u>3</u>	= <u>8 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>932a</u>	—	—	—	—	—
<u>934a</u>	<u>3 gal</u>	<u>7.63</u>	<u>3.56 mS/cm</u>	<u>26.9°</u>	<u>clear</u>
<u>937a</u>	<u>6 gal</u>	<u>7.62</u>	<u>3.54 mS/cm</u>	<u>26.5°</u>	<u>clear</u>
<u>939a</u>	<u>8 gal</u>	<u>7.61</u>	<u>3.51 mS/cm</u>	<u>26.3°</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 941a Time Finished: 941a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: hot, sunny, clear

Well Information:

Total Well Depth: 54.0 feet Time: 1020a

Depth to Water: 37.31 feet

Height of Water Column (L): 16.69 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
2-in. 4-in. 6-in.	2.67 gal.	3	8 gal
*0.16 gal/ft *0.65 gal/ft *1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1023a</u>	----	----	----	----	
<u>1026a</u>	<u>3</u> gal	<u>7.84</u>	<u>15.70 mS/cm</u>	<u>27.9°c</u>	<u>clear</u>
<u>1028a</u>	<u>6</u> gal	<u>6.80</u>	<u>16.76 mS/cm</u>	<u>27.3°c</u>	<u>cloudy</u>
<u>1030a</u>	<u>8</u> gal	<u>6.96</u>	<u>16.65 mS/cm</u>	<u>27.1°c</u>	<u>cloudy</u>
<u>1031a</u>	<u>10</u> gal	<u>6.97</u>	<u>16.67 mS/cm</u>	<u>27.0°c</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1033a Time Finished: 1033a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: M-1210

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, clear

Well Information:

Total Well Depth: 40.00 feet Time: 1.23

Depth to Water: 34.10 feet

Height of Water Column (L): 5.90 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 9.4 gal. * 3 = 3 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (VV) Purge Factor Purge Volume
9.4 gal. * 3 = 3 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>126a</u>	----	----	----	----	
<u>128a</u>	<u>1</u> gal	<u>7.20</u>	<u>17.11 mS/cm</u>	<u>25.5°</u>	<u>clear</u>
<u>129a</u>	<u>2</u> gal	<u>7.14</u>	<u>17.13 mS/cm</u>	<u>25.6°</u>	<u>clear</u>
<u>130a</u>	<u>3</u> gal	<u>7.17</u>	<u>17.34 mS/cm</u>	<u>25.5°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 131a Time Finished: 131a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Sunny, warm

Well Information:

Total Well Depth: 58.10 feet Time: 9:11a

Depth to Water: 36.34 feet

Height of Water Column (L): 22.26 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.56 gal. * 3 = 11 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>9:12a</u>	—	—	—	—	—
<u>9:15a</u>	<u>4</u> gal	<u>7.78</u>	<u>3.94</u> mS/cm	<u>26.0</u> °C	<u>clear</u>
<u>9:19a</u>	<u>8</u> gal	<u>7.69</u>	<u>4.02</u> mS/cm	<u>25.6</u> °C	<u>clear</u>
<u>9:21a</u>	<u>11</u> gal	<u>7.69</u>	<u>3.88</u> mS/cm	<u>25.5</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 9:23a Time Finished: 9:23a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 20

Comments:

Water Sampling Field Log

Well No.: M-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, warm

Well Information:

Total Well Depth: 39.0 feet Time: 655a

Depth to Water: 31.45 feet

Height of Water Column (L): 7.55 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
<input type="checkbox"/> 2-in. <input checked="" type="checkbox"/> 4-in. <input type="checkbox"/> 6-in.			<u>1.20</u> gal.	<u>3</u>	<u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>656a</u>	----	----	----	----	
<u>658a</u>	<u>2 gal</u>	<u>7.60</u>	<u>4.25 mS/cm</u>	<u>24.4°C</u>	<u>clear</u>
<u>659a</u>	<u>3 gal</u>	<u>7.55</u>	<u>4.35 mS/cm</u>	<u>24.9°C</u>	<u>clear</u>
<u>700a</u>	<u>4 gal</u>	<u>7.49</u>	<u>4.42 mS/cm</u>	<u>24.8°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 702a Time Finished: 702a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-132

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: 900 feet Time: 834a

Depth to Water: _____ feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.	Well	Purge	Purge	
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
	gal				
	gal				
	gal				Water level probe will not descend into well - stops ~ 5' from TOC -
	gal				Well Damaged outside metal being removed
	gal				
	gal				

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 70.0 feet Time: 7:54a

Depth to Water: 27.43 feet

Height of Water Column (L): 42.57 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	$= 4.81 \text{ gal.} \times 3 = 20 \text{ gal}$	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>20 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:57a</u>	—	—	—	—	—
<u>8:03a</u>	<u>7 gal</u>	<u>7.36</u>	<u>1.16 mS/cm</u>	<u>26.5°C</u>	<u>Clear</u>
<u>8:10a</u>	<u>14 gal</u>	<u>7.41</u>	<u>6.30 mS/cm</u>	<u>26.2°C</u>	<u>Clear</u>
<u>8:24a</u>	<u>20 gal</u>	<u>7.48</u>	<u>6.67 mS/cm</u>	<u>26.5°C</u>	<u>Clear</u>
<u>8:27a</u>	<u>23 gal</u>	<u>7.44</u>	<u>6.54 mS/cm</u>	<u>26.9°C</u>	<u>Clear</u>
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 8:28a Time Finished: 8:28a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-134

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: sunny warm

Well Information:

Total Well Depth: 70.0 feet Time: 6:18a

Depth to Water: 32.65 feet

Height of Water Column (L): 37.35 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (VV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>5.97</u> gal.	* 3	= <u>18</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:19a</u>	-----	-----	-----	-----	
<u>6:26a</u>	<u>6</u> gal	<u>7.63</u>	<u>3.80 mS/cm</u>	<u>24.3°</u>	<u>clear</u>
<u>6:32</u>	<u>123</u> gal	<u>7.67</u>	<u>3.80 mS/cm</u>	<u>25.0°</u>	<u>clear</u>
<u>6:43</u>	<u>183</u> gal	<u>7.66</u>	<u>3.76 mS/cm</u>	<u>24.6°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 6:45a Time Finished: 6:45a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: Well depth is deeper than pump* nose reach purged total 12 gal before pump was above well water

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-135

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: clear, warm

Well Information:

Total Well Depth: 39.0 feet Time: 6:09a

Depth to Water: 32.50 feet

Height of Water Column (L): <u>6.50</u> feet	Well Diameter (circle one)						
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.04</u> gal.	* 3	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:10a</u>	----	----	----	----	
<u>6:12a</u>	<u>1 gal</u>	<u>7.53</u>	<u>4.61 mS/cm</u>	<u>24.0°</u>	<u>clear</u>
<u>6:13a</u>	<u>2 gal</u>	<u>7.49</u>	<u>4.67 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
<u>6:14a</u>	<u>3 gal</u>	<u>7.51</u>	<u>4.68 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 6:15a Time Finished: 6:15a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	<u>pH/TDS/CRVI</u>	<u>pH/TDS/CRVI/NO3</u>	<u>pH/TDS/NO3</u>	<u>CLO3</u>
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-136

Project No.: _____

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: clear cool

Well Information:

Total Well Depth: 90.0 feet Time: 536a

Depth to Water: 28.71 feet

Height of Water Column (L): 61.29 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>9.80</u> gal. * <u>3</u> =	<u>29 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>538a</u>	----	----	----	----	
<u>550a</u>	<u>10</u> gal	<u>7.59</u>	<u>1.92 mS/cm</u>	<u>24.1°</u>	<u>clear</u>
<u>555a</u>	<u>20</u> gal	<u>7.73</u>	<u>1.90 mS/cm</u>	<u>24.0°</u>	<u>clear</u>
<u>601a</u>	<u>29.20</u> gal	<u>7.74</u>	<u>1.92 mS/cm</u>	<u>24.5°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 603a Time Finished: 603a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: Due to depth of well 20 gals was purged before total pump was out of well water TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: M-137

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 75.0 feet Time: 7:30a

Depth to Water: 55.30 feet

Height of Water Column (L): 19.7 feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume
 = 3.15 gal. * 3 = 9 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:39a</u>	—	—	—	—	—
<u>7:44a</u>	<u>3 gal</u>	<u>7.75</u>	<u>2.46 mS/cm</u>	<u>25.5°C</u>	<u>clear</u>
<u>7:47a</u>	<u>6 gal</u>	<u>7.66</u>	<u>2.56 mS/cm</u>	<u>25.5°C</u>	<u>clear</u>
<u>7:51a</u>	<u>9 gal</u>	<u>7.69</u>	<u>2.60 mS/cm</u>	<u>25.2°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 7:52a Time Finished: 7:52a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	<u>pH/TDS/CRVI</u>	<u>pH/TDS/CRVI/NO3</u>	<u>pH/TDS/NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-138

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 65.0 feet Time: 759a

Depth to Water: 53.75 feet

Height of Water Column (L): <u>1125</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.8</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>800a</u>	—	—	—	—	—
<u>805a</u>	<u>2 gal</u>	<u>7.68</u>	<u>3.58 mS/cm</u>	<u>25.3°</u>	<u>clear</u>
<u>809a</u>	<u>4 gal</u>	<u>7.72</u>	<u>3.59 mS/cm</u>	<u>25.5°</u>	<u>clear</u>
<u>812a</u>	<u>5 gal</u>	<u>7.66</u>	<u>3.59 mS/cm</u>	<u>25.7°</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection Time Start: 814a Time Finished: 814a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-139

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Hot, sunny, breezy

Well Information:

Total Well Depth: 60.0 feet Time: 1050a

Depth to Water: 33.96 feet

Height of Water Column (L): <u>26.04</u> feet	Well Diameter (circle one)	Well	Purge	Purge		
	<table border="0" style="margin: auto;"> <tr> <td style="text-align: center;">2-in.</td> <td style="text-align: center;">4-in.</td> <td style="text-align: center;">6-in.</td> </tr> </table>	2-in.	4-in.	6-in.	Volume (WV)	Factor
2-in.	4-in.	6-in.				
*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>4.16</u> gal.	* 3 = <u>12</u> gal		

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1053a</u>	-----	-----	-----	-----	
<u>1057a</u>	<u>4</u> gal	<u>7.96</u>	<u>3.80 mS/cm</u>	<u>27.3°</u>	<u>clear</u>
<u>1059a</u>	<u>8</u> gal	<u>7.83</u>	<u>3.90 mS/cm</u>	<u>26.5°</u>	<u>clear</u>
<u>1103a</u>	<u>12</u> gal	<u>7.72</u>	<u>3.93 mS/cm</u>	<u>26.9°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1105a Time Finished: 1105a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-140

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	This well has NO place large enough to put a probe into the well to collect DTW. pump is off - NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments: _____

Water Sampling Field Log

Well No.: M-141

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, sunny, breeze

Well Information:

Total Well Depth: 48.30 feet Time: 931a

Depth to Water: 40.46 feet

Height of Water Column (L): 7.84 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (VV)	Factor	Volume
*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>1.25</u> gal.	* 3	= <u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>937a</u>	<u>2</u> gal	<u>7.48</u>	<u>7.37 mS/cm</u>	<u>25.5°</u>	<u>light yellow</u>
<u>938a</u>	<u>3</u> gal	<u>7.36</u>	<u>7.44 mS/cm</u>	<u>25.5°</u>	<u>light yellow</u>
<u>939a</u>	<u>4</u> gal	<u>7.36</u>	<u>7.64 mS/cm</u>	<u>25.3°</u>	<u>light yellow</u>
	gal				
	gal				
	gal				

Sample Appearance: light yellow

Sample Collection - Time Start: 941a Time Finished: 941a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-142

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-14-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Hot, Sunny

Well Information:

Total Well Depth: 45.86 feet Time: 1041a

Depth to Water: 30.35 feet

Height of Water Column (L): 15.51 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.48</u> gal.	* <u>3</u>	= <u>7 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1043a</u>	-----	-----	-----	-----	
<u>1045a</u>	<u>3</u> gal	<u>7.55</u>	<u>3.46 mS/cm</u>	<u>27.5 °C</u>	<u>clear</u>
<u>1047a</u>	<u>5</u> gal	<u>7.56</u>	<u>3.35 mS/cm</u>	<u>27.0 °C</u>	<u>clear</u>
<u>1048a</u>	<u>7</u> gal	<u>7.57</u>	<u>3.33 mS/cm</u>	<u>26.6 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1050a Time Finished: 1050a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-143

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool slightly cloudy

Well Information:

Total Well Depth: 75.0 feet Time: 540a

Depth to Water: _____ feet

Well Diameter (circle one)	Well	Purge	Purge
2-in. 4-in. 6-in	Volume (VV)	Factor	Volume

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO T FOUND
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-144

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool, light cloudy

Well Information:

Total Well Depth: 46.0 feet Time: 547a

Depth to Water: 37.22 feet

Height of Water Column (L): 1.78 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.24 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>558a</u>	---	---	---	---	
<u>600a</u>	<u>2</u> gal	<u>7.18</u>	<u>4.25 mS/cm</u>	<u>25.6°</u>	<u>clear</u>
<u>606a</u>	<u>3</u> gal	<u>7.37</u>	<u>3.95 mS/cm</u>	<u>24.6°</u>	<u>slightly cloudy</u>
<u>613a</u>	<u>4</u> gal	<u>7.61</u>	<u>4.01 mS/cm</u>	<u>24.3°</u>	<u>slightly cloudy</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 617a Time Finished: 617a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

VD-2

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-145

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Hot, sunny, breezy

Well Information:

Total Well Depth: 60.0 feet Time: 1112a

Depth to Water: 36.51 feet

	Well Diameter (circle one)		Well	Purge	Purge
	2-in. 4-in. 6-in.		Volume (WV)	Factor	Volume
Height of Water Column (L): <u>23.49</u> feet	<u>2-in.</u>	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.75</u> gal. * <u>3</u> = <u>11 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1115a</u>	—	—	—	—	—
<u>1132a</u>	<u>4 gal</u>	<u>7.52</u>	<u>351 mS/cm</u>	<u>30.8°C</u>	<u>dirty</u>
<u>1140a</u>	<u>5 gal</u>	<u>7.24</u>	<u>352 mS/cm</u>	<u>31.8°C</u>	<u>dirty</u>
<u>1142a</u>	<u>6 gal</u>	<u>7.15</u>	<u>354 mS/cm</u>	<u>32.1°C</u>	<u>dirty</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: dirty

Sample Collection - Time Start: 1145a Time Finished: 1145a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

Comments: EB-4 collected here before moving to next well

TOTAL BOTTLES: 3

Well purges dry

Water Sampling Field Log

Well No.: M-146

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny, cool

Well Information:

Total Well Depth: 50.0 feet Time: 627a

Depth to Water: 33.95 feet

Height of Water Column (L): <u>16.05</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.56</u> gal.	* <u>3</u>	= <u>8 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>631a</u>	---	---	---	---	
<u>634a</u>	<u>3 gal</u>	<u>7.60</u>	<u>5.37 mS/cm</u>	<u>25.6 °C</u>	<u>clear</u>
<u>636a</u>	<u>6 gal</u>	<u>7.54</u>	<u>5.43 mS/cm</u>	<u>25.1 °C</u>	<u>clear</u>
<u>638a</u>	<u>8 gal</u>	<u>7.53</u>	<u>5.42 mS/cm</u>	<u>25.1 °C</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 640a Time Finished: 640a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments: VD-1

Water Sampling Field Log

Well No.: M-147

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Dunny cool

Well Information:

Total Well Depth: 40.0 feet Time: 7:01a

Depth to Water: 35.08 feet

Height of Water Column (L): 4.92 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = .78 gal. * 3 = 2 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:03a</u>	---	---	---	---	
<u>7:05a</u>	<u>1</u> gal	<u>7.68</u>	<u>5.03 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
<u>7:06a</u>	<u>1.5</u> gal	<u>7.48</u>	<u>4.79 mS/cm</u>	<u>25.3°</u>	<u>clear</u>
<u>7:07a</u>	<u>2</u> gal	<u>7.44</u>	<u>4.95 mS/cm</u>	<u>25.2°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 7:08a Time Finished: 7:08a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-148A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 52.30 feet Time: 904a

Depth to Water: 44.99 feet

Height of Water Column (L): <u>7.31</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.16</u> gal.	* <u>3</u>	= <u>4</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>906a</u>	-----	-----	-----	-----	
<u>911a</u>	<u>2</u> gal	<u>7.17</u>	<u>5.38 mS/cm</u>	<u>27.5°c</u>	<u>clear</u>
<u>915a</u>	<u>3</u> gal	<u>7.63</u>	<u>5.57 mS/cm</u>	<u>27.1°c</u>	<u>clear</u>
<u>919a</u>	<u>4</u> gal	<u>7.50</u>	<u>5.52 mS/cm</u>	<u>26.8°c</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 922a Time Finished: 922a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: M-166

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Breezy warm

Well Information:

Total Well Depth: 32.0 feet Time: 1100A

Depth to Water: 27.41 feet

	Well Diameter (circle one)		Well	Purge	Purge
	2-in. <input checked="" type="radio"/> 4-in. <input type="radio"/> 6-in. <input type="radio"/>		Volume (WV)	Factor	Volume
Height of Water Column (L): <u>4.59</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-1167

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 30.0 feet Time: 1125A

Depth to Water: 24.79 feet

Height of Water Column (L): 5.21 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-168

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 35.0 feet Time: 1129A

Depth to Water: 22.61 feet

Height of Water Column (L): 12.39 feet * 2-in. * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 1

Comments:

Water Sampling Field Log

Well No.: M-1169

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Breezy, cloudy

Well Information:

Total Well Depth: 35.0 feet Time: 1136A

Depth to Water: 24.54 feet

Height of Water Column (L): 10.36 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 7

Comments:

Water Sampling Field Log

Well No.: M-170

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 35.0 feet Time: 1147A

Depth to Water: 25.15 feet

Height of Water Column (L): 9.85 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: N-172

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 370 feet Time: 1200p

Depth to Water: 25.84 feet

Height of Water Column (L): <u>11.14</u> feet	Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
	2-in. 4-in. 6-in.			
	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= _____ gal.	* <u>3</u>	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-173

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, cloudy

Well Information:

Total Well Depth: 40.0 feet Time: 12:19 p

Depth to Water: 27.83 feet

Height of Water Column (L): 12.17 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-174

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm

Well Information:

Total Well Depth: 28.00 feet Time: 1252p

Depth to Water: 19.73 feet

Height of Water Column (L): <u>8.27</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in	Well Volume (WV)	Purge Factor	Purge Volume
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	DTW ONLY NO SAMPLE
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	
_____	gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-175

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, windy

Well Information:

Total Well Depth: 29.0 feet Time: 1255p

Depth to Water: 20.77 feet

Height of Water Column (L): 8.23 feet * 0.16 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.
 * 0.65 gal/ft * 1.47 gal/ft

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: M-176

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: windy

Well Information:

Total Well Depth: 30.0 feet Time: 1120

Depth to Water: 23.60 feet

Height of Water Column (L): 6.40 feet * Well Diameter (circle one)
2-in. 4-in. 6-in. * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = gal.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	<u>DTW ONLY</u>
_____	_____ gal	_____	_____	_____	<u>NO SAMPLE</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: M-177

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-16-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: windy, warm

Well Information:

Total Well Depth: 30.0 feet Time: 115p

Depth to Water: 21.29 feet

Height of Water Column (L): 8.71 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: MC-3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: sunny warm

Well Information:

Total Well Depth: 43.0 feet Time: 902a
 Depth to Water: 33.89 feet
 Height of Water Column (L): 9.11 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.45 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>904a</u>	---	---	---	---	
<u>906</u>	<u>2 gal</u>	<u>7.24</u>	<u>18.33 mS/cm</u>	<u>25.2°c</u>	<u>clear</u>
<u>907</u>	<u>3 gal</u>	<u>7.23</u>	<u>18.21 mS/cm</u>	<u>26.0°c</u>	<u>clear</u>
<u>908</u>	<u>4 gal</u>	<u>7.24</u>	<u>18.44 mS/cm</u>	<u>25.7°c</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 910a Time Finished: 910a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	<u>pH/TDS/CRVI</u>	<u>pH/TDS/CRVI/NO3</u>	<u>pH/TDS/NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: ME-6

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny clear

Well Information:

Total Well Depth: 42.0 feet Time: 6:47a

Depth to Water: 27.96 feet

	Well Diameter (circle one)		Well		Purge		Purge
Height of Water Column (L): <u>14.04</u> feet	<input checked="" type="radio"/> 2-in.	<input type="radio"/> 4-in.	Volume (WV)	Factor	Volume		
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.24</u> gal.	* <u>3</u>	= <u>7 gal</u>	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>650a</u>	----	----	----	----	
<u>652a</u>	<u>3 gal</u>	<u>7.26</u>	<u>19.32 mscm</u>	<u>23.9°c</u>	<u>clear</u>
<u>654a</u>	<u>5 gal</u>	<u>7.29</u>	<u>19.62 mscm</u>	<u>24.30°c</u>	<u>clear</u>
<u>656a</u>	<u>7 gal</u>	<u>7.27</u>	<u>19.86 mscm</u>	<u>24.4°c</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 656a Time Finished: 656a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments: ded tubing

Water Sampling Field Log

Well No.: MC-7

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: sunny clear

Well Information:

Total Well Depth: 39.0 feet Time: 6:34a

Depth to Water: 27.29 feet

Height of Water Column (L): 11.71 feet * 2-in. Well Diameter (circle one) * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. * 1.47 gal/ft = 1.87 gal. * 3 Purge Factor = 6 gal Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:35a</u>	---	---	---	---	
<u>6:37a</u>	<u>2 gal</u>	<u>7.02</u>	<u>7.15 mS/cm</u>	<u>24.2 °C</u>	<u>clear</u>
<u>6:38a</u>	<u>4 gal</u>	<u>7.11</u>	<u>7.30 mS/cm</u>	<u>24.0 °C</u>	<u>clear</u>
<u>6:39a</u>	<u>6 gal</u>	<u>7.14</u>	<u>7.42 mS/cm</u>	<u>24.6 °C</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 6:40a Time Finished: 6:40a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: MC-29

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny warm

Well Information:

Total Well Depth: 50.0 feet Time: 919⁰⁰

Depth to Water: 35.90 feet

Height of Water Column (L): <u>14.1</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in.	Well Volume (WV) = <u>2.25</u> gal.	Purge Factor = <u>3</u>	Purge Volume = <u>7</u> gal
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>921a</u>	---	---	---	---	---
<u>924a</u>	<u>3 gal</u>	<u>7.33</u>	<u>32.54</u> ^{ms/cm}	<u>25.7⁰⁰</u>	<u>water</u>
<u>927a</u>	<u>5 gal</u>	<u>7.10</u>	<u>34.12</u> ^{ms/cm}	<u>26.1⁰⁰</u>	<u>water</u>
<u>930a</u>	<u>7 gal</u>	<u>7.08</u>	<u>34.02</u> ^{ms/cm}	<u>26.3⁰⁰</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 931a Time Finished: 931a

Analyses:	<u>2</u> LO4	<u>1</u> pH/TDS	CR	pH/TDS/CRVI	pH/TDS/CRVI/NO3	pH/TDS/NO3	CLO3
Bottles:	<u>1</u> BTL	<u>1</u> BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: MC-45

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm Sunny

Well Information:

Total Well Depth: 340 feet Time: 706a

Depth to Water: 27.89 feet

Height of Water Column (L): 6.11 feet * 0.16 gal/ft = 0.97 gal. * 3 = 3 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.
 Purge Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>708a</u>	---	---	---	---	
<u>710a</u>	<u>1 gal</u>	<u>7.41</u>	<u>21.72 mS/cm</u>	<u>23.7°</u>	<u>clear</u>
<u>714a</u>	<u>2 gal</u>	<u>7.22</u>	<u>19.70 mS/cm</u>	<u>24.8°</u>	<u>clear</u>
<u>715a</u>	<u>3 gal</u>	<u>7.33</u>	<u>24.62 mS/cm</u>	<u>25.0°</u>	<u>clear</u>
<u>717a</u>	<u>5 gal</u>	<u>7.15</u>	<u>23.58 mS/cm</u>	<u>24.7°</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 719a Time Finished: 719a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: diluted sample 50/50 w/DI

TOTAL BOTTLES: 2

Water Sampling Field Log

Well No.: MC-50

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Sunny, clear

Well Information:

Total Well Depth: 49.0 feet Time: 728a

Depth to Water: 29.03 feet

Height of Water Column (L): 19.97 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.19</u> gal.	* <u>3</u>	= <u>10 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>731a</u>	---	---	---	---	---
<u>734a</u>	<u>4</u> gal	<u>7.14</u>	<u>21.56</u> ^{m/cm}	<u>24.1</u> °C	<u>clear</u>
<u>737a</u>	<u>7</u> gal	<u>7.12</u>	<u>21.82</u> ^{m/cm}	<u>24.3</u> °C	<u>clear</u>
<u>740a</u>	<u>10</u> gal	<u>7.08</u>	<u>22.30</u>	<u>24.6</u> °C	<u>clear</u>
---	gal	---	---	---	---
---	gal	---	---	---	---
---	gal	---	---	---	---

Sample Appearance: clear

Sample Collection - Time Start: 742a Time Finished: 742a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	CR	pH/TDS/CRVI	pH/TDS/CRVI/NO3	pH/TDS/NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: ded tubing - 8" stove pipe

TOTAL BOTTLES: 2

Water Sampling Field Log

Well No.: MC-51

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Sunny clear

Well Information:

Total Well Depth: 44.0 feet Time: 750a

Depth to Water: 30.40 feet

Height of Water Column (L): 13.60 feet * 2-in. Well Diameter (circle one) * 0.16 gal/ft * 4-in. * 0.65 gal/ft * 6-in. * 1.47 gal/ft = 2.17 gal. * 3 = 7 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>752a</u>	---	---	---	---	---
<u>754a</u>	<u>3 gal</u>	<u>7.16</u>	<u>22.18 mS/cm</u>	<u>24.3°C</u>	<u>clear</u>
<u>757a</u>	<u>5 gal</u>	<u>7.13</u>	<u>23.84 mS/cm</u>	<u>25.0°C</u>	<u>clear</u>
<u>800a</u>	<u>7 gal</u>	<u>7.11</u>	<u>23.54 mS/cm</u>	<u>25.3°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 802a Time Finished: 802a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

Comments: diluted w/ DI 50/50

TOTAL BOTTLES: 2

Water Sampling Field Log

Well No.: MC-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 38.0 feet Time: 809

Depth to Water: 31.0 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>7.0</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.12</u> gal.	* <u>3</u> = <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>813a</u>	---	---	---	---	
<u>814a</u>	<u>1 gal</u>	<u>7.22</u>	<u>18.69 mS/cm</u>	<u>25.0°</u>	<u>silty</u>
<u>815a</u>	<u>2 gal</u>	<u>7.14</u>	<u>19.38 mS/cm</u>	<u>25.2°</u>	<u>clear</u>
<u>817a</u>	<u>3 gal</u>	<u>7.11</u>	<u>19.37 mS/cm</u>	<u>25.1°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 818A Time Finished: 818A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 23

Comments:

Water Sampling Field Log

Well No.: MC-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy cool

Well Information:

Total Well Depth: 41.0 feet Time: 821a

Depth to Water: 32.78 feet

Height of Water Column (L): 822 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.31 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>822a</u>	---	---	---	---	
<u>824a</u>	<u>2</u> gal	<u>6.53</u>	<u>14.61 mS/cm</u>	<u>24.2°</u>	<u>slightly cloudy</u>
<u>825a</u>	<u>3</u> gal	<u>6.88</u>	<u>15.03 mS/cm</u>	<u>24.3°</u>	<u>clear</u>
<u>826a</u>	<u>4</u> gal	<u>6.93</u>	<u>15.21 mS/cm</u>	<u>24.1°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 827a Time Finished: 827a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: MC-69

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm sunny

Well Information:

Total Well Depth: 44.0 feet Time: 844a

Depth to Water: 31.35 feet

Height of Water Column (L): <u>12.65</u> feet	Well Diameter (circle one)							
	2-in. 4-in. 6-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.02</u> gal.	* <u>3</u>	= <u>Legal</u>	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>846a</u>	---	---	---	---	
<u>848a</u>	<u>2</u> gal	<u>7.34</u>	<u>19.41 mS/cm</u>	<u>24.8°C</u>	<u>clear</u>
<u>849a</u>	<u>4</u> gal	<u>7.34</u>	<u>2274 mS/cm</u>	<u>25.2°C</u>	<u>clear</u>
<u>852a</u>	<u>6</u> gal	<u>7.17</u>	<u>2332 mS/cm</u>	<u>25.3°C</u>	<u>clear</u>
<u>854a</u>	<u>8</u> gal	<u>7.20</u>	<u>2298 mS/cm</u>	<u>24.8°C</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 856a Time Finished: 856a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

diluted 50/50

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: MC-93

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm sunny

Well Information:

Total Well Depth: 42.0 feet Time: 829a

Depth to Water: 32.61 feet

Height of Water Column (L): 9.39 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.			<u>1.50</u> gal.	<u>3</u>	<u>5 gal</u>

* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>829A</u>	---	---	---	---	
<u>831A</u>	<u>2</u> gal	<u>7.26</u>	<u>12.11 mS/cm</u>	<u>25.1</u> °C	<u>clear</u>
<u>832A</u>	<u>4</u> gal	<u>7.19</u>	<u>12.44 mS/cm</u>	<u>25.2</u> °C	<u>clear</u>
<u>833A</u>	<u>5</u> gal	<u>7.18</u>	<u>12.61 mS/cm</u>	<u>25.3</u> °C	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 835a Time Finished: 835a

Analyses:	<input checked="" type="radio"/> CLO4	<input checked="" type="radio"/> pH / TDS	<input type="radio"/> CR	<input type="radio"/> pH / TDS / CRVI	<input type="radio"/> pH / TDS / CRVI / NO3	<input type="radio"/> pH / TDS / NO3	<input type="radio"/> CLO3
Bottles:	<u>1</u> BTL	<u>1</u> BTL	<u>1</u> BTL	<u>1</u> BTL	<u>1</u> BTL	<u>1</u> BTL	<u>1</u> BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: MC-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 410 feet Time: 936a

Depth to Water: 35.65 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>535</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>185</u> gal.	* <u>3</u> = <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>939a</u>	----	----	----	----	
<u>941a</u>	<u>1 gal</u>	<u>7.18</u>	<u>19.56 mS/cm</u>	<u>25.1°</u>	<u>clear</u>
<u>942a</u>	<u>2 gal</u>	<u>7.20</u>	<u>19.94 mS/cm</u>	<u>25.1°</u>	<u>clear</u>
<u>943a</u>	<u>3 gal</u>	<u>7.07</u>	<u>19.65 mS/cm</u>	<u>25.3°</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 944a Time Finished: 944a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: MW-16

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 40.0 feet Time: 739a

Depth to Water: 35.87 feet

Height of Water Column (L): <u>4.13</u> feet	Well Diameter (circle one)						
	2-in. 4-in. 6-in.						
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>.64</u> gal.	* <u>3</u>	= <u>2 gal</u>	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:41</u>	----	----	----	----	
<u>7:44</u>	<u>1 gal</u>	<u>7.26</u>	<u>13.68 mS/cm</u>	<u>25.8°</u>	<u>Clear</u>
<u>7:45</u>	<u>1.5 gal</u>	<u>7.35</u>	<u>13.46 mS/cm</u>	<u>26.0°</u>	<u>Clear</u>
<u>7:46</u>	<u>2 gal</u>	<u>7.28</u>	<u>13.47 mS/cm</u>	<u>26.0°</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 747a Time Finished: 747a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: MW-K4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm windy

Well Information: _____

Total Well Depth: 56.0 feet Time: 908a

Depth to Water: - 29.03 feet

Water Column (L): 20.97 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 10 gal Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>no sample</u>

Comments: flesh bolts
ded tube
NO cap

something stuck down
inside well casing
can't get pump in well
can't see object

Sample Collection Time - _____

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: MW-K5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Windy, sunny, clear

Well Information:

Total Well Depth: 43.5 feet Time: 7:51a

Depth to Water: - 31.59 feet

Water Column (L):	<u>11.91</u> feet	X	Well Diameter (circle one)			Purge Volume
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	= <u>legal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>7:54a</u>	<u>legal</u>	<u>clear</u>

Comments: stove pipe lid no lock ded tubing no well cap

Sample Collection Time - 8:02a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>
TOTAL Bottles-					<u>4</u>

Water Sampling Field Log

Well No.: PC-1

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-1-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: breezy, warm

Well Information:

Total Well Depth: 300.0 feet 27.67 ← Time: 1123A

Depth to Water: _____ feet

Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	DRY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments: _____

Water Sampling Field Log

Well No.: PC-2

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny breezy

Well Information: _____

Total Well Depth: 30.0 feet Time: 1031a

Depth to Water: 28.16 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>1.84</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.29</u> gal.	* 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1032a</u>	—	—	—	—	—
<u>1040a</u>	<u>1 gal</u>	<u>7.69</u>	<u>4.99 mS/cm</u>	<u>25.3</u>	<u>cloudy</u>
<u>1047a</u>	<u>1.5 gal</u>	<u>7.57</u>	<u>5.97 mS/cm</u>	<u>26.4</u>	<u>cloudy</u>
<u>1056a</u>	<u>2.0 gal</u>	<u>7.61</u>	<u>6.54 mS/cm</u>	<u>25.9 °C</u>	<u>slightly cloudy</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: slightly cloudy

Sample Collection - Time Start: 1056a Time Finished: 1100a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Well purged dry

Water Sampling Field Log

Well No.: PC-4

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump ^{MB} Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Breezy, sunny

Well Information:

Total Well Depth: 43.0 feet Time: 1107

Depth to Water: 35.36 feet

	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="3">Well Diameter (circle one)</th> </tr> <tr> <td style="text-align: center; width: 33%;">2-in.</td> <td style="text-align: center; width: 33%;">4-in.</td> <td style="text-align: center; width: 33%;">6-in.</td> </tr> </table>	Well Diameter (circle one)			2-in.	4-in.	6-in.		Well Volume (WV)	Purge Factor	Purge Volume
Well Diameter (circle one)											
2-in.	4-in.	6-in.									
Height of Water Column (L): <u>7.64</u> feet	$\times 0.16 \text{ gal/ft}$ $\times 0.65 \text{ gal/ft}$ $\times 1.47 \text{ gal/ft}$	=	gal.	*	3	=					

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>11:11</u>	<u>gal</u>	<u>7.58</u>	<u>838 mS/cm</u>	<u>23.5°</u>	<u>clear</u>
	<u>gal</u>				
	<u>gal</u>				<u>NO ACCESS with sampling rig</u>
	<u>gal</u>				<u>Not purged - sample collected w/new</u>
	<u>gal</u>				<u>disposable bailer</u>
	<u>gal</u>				

Sample Appearance: clear

Sample Collection - Time Start: 1114a Time Finished: 1114a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-18

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump X

Weather Conditions: sunny, windy

Well Information:

Total Well Depth: 52.5 feet Time: 1140a

Depth to Water: - 28.75 feet

Water Column (L): 23.75 feet X 0.4893 = 12 gal

Well Diameter (circle one)
2-in. 4-in. 6-in.
0.4893 1.9 4.41

Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1141a</u>	<u>12 gal</u>	<u>clear</u>

Comments: removed sensor to collect DTW and purge

No cap flush no bats

Sample Collection Time - 1152a

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-21A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Sunny breeze

Well Information:

Total Well Depth: 34.40 feet Time: 1158

Depth to Water: 31.40 feet

Height of Water Column (L): 3.00 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.48 gal. * 3 = 1.5

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1159A</u>	—	—	—	—	—
<u>1202p</u>	<u>0.5 gal</u>	<u>7.44</u>	<u>9.02 mS/cm</u>	<u>27.6°C</u>	<u>slightly cloudy</u>
<u>1204p</u>	<u>1.0 gal</u>	<u>7.42</u>	<u>9.62 mS/cm</u>	<u>27.7°C</u>	<u>slightly cloudy</u>
<u>1205p</u>	<u>1.5 gal</u>	<u>7.39</u>	<u>9.82 mS/cm</u>	<u>27.7°C</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 1205A Time Finished: 1208A

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

VD-4 TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-24

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Breezy, Cloudy

Well Information:

Total Well Depth: 30.20 feet Time: 7:16A

Depth to Water: 20.81 feet

Height of Water Column (L): 17.61 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.81 gal. * 3 = 8 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:18A</u>	—	—	—	—	—
<u>7:20A</u>	<u>3</u> gal	<u>7.42</u>	<u>12.60 mS/cm</u>	<u>22.5°</u>	<u>clear</u>
<u>7:22A</u>	<u>6</u> gal	<u>7.42</u>	<u>12.75 mS/cm</u>	<u>23.2°</u>	<u>clear</u>
<u>7:23A</u>	<u>8</u> gal	<u>7.41</u>	<u>12.78 mS/cm</u>	<u>23.1°</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 7:24A Time Finished: 7:24A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-28

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Breezy cool, sunny

Well Information:

Total Well Depth: 20.0 feet Time: 820A

Depth to Water: 11.40 feet

Height of Water Column (L): 8.60 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.37 gal. * 3 = 4 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>821A</u>	—	—	—	—	—
<u>822A</u>	<u>2 gal</u>	<u>7.54</u>	<u>6.51 mS/cm</u>	<u>22.7°</u>	<u>cloudy</u>
<u>823A</u>	<u>3 gal</u>	<u>7.56</u>	<u>6.67 mS/cm</u>	<u>22.7°</u>	<u>cloudy</u>
<u>824A</u>	<u>4 gal</u>	<u>7.56</u>	<u>6.80 mS/cm</u>	<u>22.8°</u>	<u>cloudy</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 826A Time Finished: 826A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-31

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Sunny Breezy

Well Information:

Total Well Depth: 50.0 feet Time: 833a

Depth to Water: 10.0 feet

Height of Water Column (L): 40.0 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 640 gal. * 3 = 19 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>835A</u>	—	—	—	—	—
<u>839A</u>	<u>7 gal</u>	<u>7.58</u>	<u>7.12 mS/cm</u>	<u>25.8 °C</u>	<u>Clear</u>
<u>842A</u>	<u>13 gal</u>	<u>7.56</u>	<u>7.32 mS/cm</u>	<u>26.3 °C</u>	<u>Clear</u>
<u>845A</u>	<u>19 gal</u>	<u>7.50</u>	<u>7.50 mS/cm</u>	<u>26.0 °C</u>	<u>Clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: Clear

Sample Collection - Time Start: 847A Time Finished: 847A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-37

Project No.: _____

Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy cool, breezy

Well Information:

Total Well Depth: 43.08 feet Time: 850A

Depth to Water: 29.25 feet

Height of Water Column (L): 13.83 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 221 gal. * 3 = 7 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>854a</u>	---	---	---	---	
<u>857a</u>	<u>3 gal</u>	<u>7.26</u>	<u>7.16 mS/cm</u>	<u>24.5°</u>	<u>clear</u>
<u>858a</u>	<u>5 gal</u>	<u>7.32</u>	<u>8.58 mS/cm</u>	<u>24.5°</u>	<u>clear</u>
<u>859a</u>	<u>7 gal</u>	<u>7.38</u>	<u>8.75 mS/cm</u>	<u>24.4°</u>	<u>clear</u>
<u>900a</u>	<u>8 gal</u>	<u>7.37</u>	<u>8.91 mS/cm</u>	<u>24.2°</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 901a Time Finished: 901a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 3

Comments: 1/0-5 3 bottles

Water Sampling Field Log

Well No.: PC-40

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Cloudy calm

Well Information:

Total Well Depth: 55.20 feet Time: 6:12a

Depth to Water: 90.72 feet

Height of Water Column (L): 34.48 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft			= <u>5.51</u> gal.	* <u>3</u>	= <u>17 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:14a</u>	----	----	----	----	
<u>6:18a</u>	<u>6</u> gal	<u>7.30</u>	<u>21.24 mS/cm</u>	<u>22.1⁰⁰</u>	<u>Clear</u>
<u>6:21a</u>	<u>11</u> gal	<u>7.27</u>	<u>20.84 mS/cm</u>	<u>23.8⁰⁰</u>	<u>Clear</u>
<u>6:23a</u>	<u>17</u> gal	<u>7.20</u>	<u>22.32 mS/cm</u>	<u>23.8⁰⁰</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 6:29a Time Finished: 6:29a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: Sample needed 50/50 dilution with DI water to read conductivity

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: PC-50

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool breezy

Well Information:

Total Well Depth: 42.0 feet Time: 7:57 A

Depth to Water: 12.23 feet

Height of Water Column (L): <u>29.77</u> feet	Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume					
	<table border="0" style="margin: auto;"> <tr> <td style="text-align: center;">2-in.</td> <td style="text-align: center;">4-in.</td> <td style="text-align: center;">6-in</td> </tr> <tr> <td style="text-align: center;">* 0.16 gal/ft</td> <td style="text-align: center;">* 0.65 gal/ft</td> <td style="text-align: center;">* 1.47 gal/ft</td> </tr> </table>	2-in.	4-in.	6-in	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>4.76</u> gal.	* <u>3</u>
2-in.	4-in.	6-in							
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft							

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>7:58 A</u>	—	—	—	—	—
<u>802A</u>	<u>5 gal</u>	<u>7.28</u>	<u>13.53 mS/cm</u>	<u>23.1 °C</u>	<u>clear</u>
<u>804A</u>	<u>10 gal</u>	<u>7.23</u>	<u>13.72 mS/cm</u>	<u>23.4 °C</u>	<u>clear</u>
<u>806A</u>	<u>14 gal</u>	<u>7.21</u>	<u>13.74 mS/cm</u>	<u>23.4 °C</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 808A Time Finished: 808A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-53

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy, sunny, clear

Well Information:

Total Well Depth: 348 feet Time: 140a

Depth to Water: - 28.65 feet

Water Column (L):	<u>6.15</u> feet	X	Well Diameter (circle one)			= <u>3gal</u>
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>141a</u>	<u>3gal</u>	<u>clear</u>

Comments:

stove pipe
PVC cap
Lid no lock

Sample Collection Time - 146a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-54

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cloudy, some sun

Well Information:

Total Well Depth: 34.60 feet Time: 1137a

Depth to Water: 22.71 feet

Height of Water Column (L): 11.89 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.90</u> gal.	* <u>3</u>	= <u>6 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1139A</u>	—	—	—	—	—
<u>1141A</u>	<u>2</u> gal	<u>7.64</u>	<u>5.72 mS/cm</u>	<u>26.4°</u>	<u>slightly cloudy</u>
<u>1142A</u>	<u>4</u> gal	<u>7.57</u>	<u>5.72 mS/cm</u>	<u>26.6°</u>	<u>clear</u>
<u>1143A</u>	<u>6</u> gal	<u>7.57</u>	<u>5.97 mS/cm</u>	<u>26.4°</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 1144A Time Finished: 1144A

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-55

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-18

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: hot, windy

Well Information:

Total Well Depth: 55.4 feet Time: 1150a

Depth to Water: - 27.99 feet

Water Column (L):	<u>27.61</u> feet	X	Well Diameter (circle one)			= <u>122</u> gal
			2-in.	4-in.	<u>6-in.</u>	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1159a</u>	<u>122 gal</u>	<u>clear</u>

Comments: did not remove float to collect DTW on purge
flush
No bott
No cap

Sample Collection Time - 110p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-56

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, breeze

Well Information: 4' pieper

Total Well Depth: 54.2 feet Time: 1025a

Depth to Water: - 22.52 feet

Water Column (L):	<u>41.68</u> feet	X	Well Diameter (circle one)			= <u>20 gal</u>
			<u>0.4893</u>	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1026a</u>	<u>20 gal</u>	<u>clear</u>

Comments: well extended ~ 10'
added 10' on original TWP to calc purge volume.

Sample Collection Time - clear 1038a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-58

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, clouds

Well Information: + 10' extension

Total Well Depth: 32.6 feet Time: 1009a

Depth to Water: - 23.24 feet

Water Column (L):	<u>19.36</u> feet	X	Well Diameter (circle one)			Purge Volume
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	= <u>9 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1010a</u>	<u>9 gal</u>	<u>clear</u>

Comments: well extended ~ 10'
added 10' to original TWD to
calc purge volume.

Sample Collection Time - 1015a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-59

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, cloudy, breeze

Well Information: 10' extent

Total Well Depth: 34.5 feet Time: 1117a

Depth to Water: - 20.69 feet

Water Column (L): 23.81 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 12 gal Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1118a</u>	<u>12 gal</u>	<u>clear</u>

Comments: well extended ~10'
added 10' to original TWD to
calc well purge volume

Sample Collection Time - 1126a

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-60

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, cloudy, breeze

Well Information: +10' exten

Total Well Depth: 39.5 feet Time: 1050a

Depth to Water: - 21.71 feet

Water Column (L): 27.79 feet X

Well Diameter (circle one)			Purge Volume
2-in.	4-in.	6-in	
0.4893	1.9	4.41	= <u>14 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1051a</u>	<u>14 gal</u>	<u>clear</u>

Comments: well extended ~10'
added 10' on original well TWO
to calc purge volume.

Sample Collection Time - 1103a

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
 Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-62

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: +10 extension warm, cloudy

Well Information: _____

Total Well Depth: 37.3 feet Time: 1138a

Depth to Water: - 19.68 feet

Water Column (L):	<u>27.62</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>14 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1139a</u>	<u>14 gal</u>	<u>clear</u>

Comments:

Well was extended ~ 10 ft
added 10' to original TWD to calc.
purge volume

lock broken

Sample Collection Time - 1148a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-64

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Breezy

Well Information:

Total Well Depth: 19.50 feet Time: 8:57A

Depth to Water: 9.84 feet

Height of Water Column (L): 9.66 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.54 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>8:58A</u>	—	—	—	—	—
<u>9:01A</u>	<u>2</u> gal	<u>7.66</u>	<u>7.43 mS/cm</u>	<u>23.6</u> °C	<u>slightly cloudy</u>
<u>9:02A</u>	<u>4</u> gal	<u>7.68</u>	<u>7.53 mS/cm</u>	<u>23.2</u> °C	<u>slightly cloudy</u>
<u>9:03A</u>	<u>5</u> gal	<u>7.69</u>	<u>7.61 mS/cm</u>	<u>23.1</u> °C	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 9:05A Time Finished: 9:05A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-65

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: breezy sunny

Well Information:

Total Well Depth: 19.10 feet Time: 950A

Depth to Water: 9.70 feet

Height of Water Column (L): 9.40 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.50 gal. * 3 = 5 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>952A</u>	—	—	—	—	—
<u>953A</u>	<u>2 gal</u>	<u>7.60</u>	<u>6.41 mS/cm</u>	<u>23.4°C</u>	<u>clear</u>
<u>955A</u>	<u>4 gal</u>	<u>7.62</u>	<u>6.45 mS/cm</u>	<u>23.6°C</u>	<u>clear</u>
<u>956A</u>	<u>5 gal</u>	<u>7.62</u>	<u>6.48 mS/cm</u>	<u>23.5°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 958A Time Finished: 958A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-1ele

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Bunny breezy

Well Information:

Total Well Depth: 27.30 feet Time: 932A

Depth to Water: 12.92 feet

Height of Water Column (L): 14.38 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 2.30 gal. * 3 = 7 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>934A</u>	—	—	—	—	—
<u>935A</u>	<u>3</u> gal	<u>7.66</u>	<u>7.01 mS/cm</u>	<u>24.2°</u>	<u>Clear</u>
<u>937A</u>	<u>5</u> gal	<u>7.58</u>	<u>7.11 mS/cm</u>	<u>24.2°</u>	<u>Clear</u>
<u>938A</u>	<u>7</u> gal	<u>7.56</u>	<u>7.23 mS/cm</u>	<u>24.5°</u>	<u>Clear</u>
	gal				
	gal				
	gal				

Sample Appearance: Clear

Sample Collection - Time Start: 941A Time Finished: 941A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-67

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cloudy, breezy

Well Information:

Total Well Depth: 36.0 feet Time: 915A

Depth to Water: 13.38 feet

Height of Water Column (L): <u>22.62</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.61</u> gal.	* <u>3</u>	= <u>11</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>916A</u>	—	—	—	—	—
<u>918A</u>	<u>4</u> gal	<u>7.41</u>	<u>15.46 mS/cm</u>	<u>23.7°C</u>	<u>cloudy</u>
<u>920A</u>	<u>7</u> gal	<u>7.36</u>	<u>15.76 mS/cm</u>	<u>24.1°C</u>	<u>very slightly cloudy</u>
<u>922A</u>	<u>11</u> gal	<u>7.35</u>	<u>15.87 mS/cm</u>	<u>24.1°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 924A Time Finished: 924A

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

Dup EC
24.1
TEMP
15.89
EC

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-68

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, overcast

Well Information:

Total Well Depth: 54.5 feet Time: 1201p

Depth to Water: - 19.61 feet

Water Column (L): 44.89 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 22 gal

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1202p</u>	<u>22 gal</u>	<u>clear</u>

Comments:

Well was extended ~ 10' added 10' to original TWD to calc purge volume.

Sample Collection Time - 1212p

Analyses: pH/ TDS CR pH/ TDS /NO3 CLO3 CLO4
Bottles: 1 Bottle 1 Bottle 1 Bottle 1 Bottle 1 Bottle

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-71

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, cool

Well Information:

Total Well Depth: 3323 feet Time: 521a

Depth to Water: 2602 feet

	Well Diameter (circle one)		Well Volume (WV)	Purge Factor	Purge Volume
Height of Water Column (L): <u>721</u> feet	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>1.15</u> gal.	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>523A</u>	----	----	----	----	
<u>525A</u>	<u>1 gal</u>	<u>6.88</u>	<u>8.55 mS/cm</u>	<u>24.0°C</u>	<u>clear</u>
<u>527A</u>	<u>2 gal</u>	<u>7.28</u>	<u>8.91 mS/cm</u>	<u>23.7°C</u>	<u>slightly cloudy</u>
<u>529A</u>	<u>3 gal</u>	<u>7.38</u>	<u>8.95 mS/cm</u>	<u>23.5°C</u>	<u>clear</u>
<u>532A</u>	<u>4 gal</u>	<u>7.54</u>	<u>8.38 mS/cm</u>	<u>23.6°C</u>	<u>clear</u>
<u>533A</u>	<u>5 gal</u>	<u>7.51</u>	<u>8.29 mS/cm</u>	<u>24.2°C</u>	<u>clear</u>
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 534a Time Finished: 534a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-72

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy cool

Well Information:

Total Well Depth: 39.54 feet Time: 541a

Depth to Water: 28.39 feet

Height of Water Column (L): 11.15 feet * $\begin{matrix} \text{Well Diameter (circle one)} \\ \text{2-in.} \end{matrix}$ * 16 gal/ft * $\begin{matrix} \text{4-in.} \\ \text{6-in.} \end{matrix}$ * 0.65 gal/ft * 1.47 gal/ft = 1.78 gal. * 3 = 5 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>543a</u>	---	---	---	---	
<u>545a</u>	<u>2</u> gal	<u>7.52</u>	<u>7.93 mS/cm</u>	<u>23.6°C</u>	<u>clear</u>
<u>547a</u>	<u>4</u> gal	<u>7.53</u>	<u>8.17 mS/cm</u>	<u>24.2°C</u>	<u>clear</u>
<u>548a</u>	<u>5</u> gal	<u>7.58</u>	<u>8.22 mS/cm</u>	<u>24.4°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 549a Time Finished: 549a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-73

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy - cool

Well Information:

Total Well Depth: 49.44 feet Time: 554a

Depth to Water: 29.56 feet

Height of Water Column (L): 19.88 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.18 gal. * 3 = 10 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>556a</u>	-----	-----	-----	-----	
<u>559a</u>	<u>4</u> gal	<u>7.59</u>	<u>8.62 mS/cm</u>	<u>23.8°</u>	<u>clear</u>
<u>601a</u>	<u>7</u> gal	<u>7.51</u>	<u>8.52 mS/cm</u>	<u>24.2°</u>	<u>clear</u>
<u>603a</u>	<u>10</u> gal	<u>7.50</u>	<u>8.60 mS/cm</u>	<u>24.0°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 605a Time Finished: 605a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-74

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer ^{Disposable} Ready Flo 2" O

Weather Conditions: cool breezy

Well Information:

Total Well Depth: 50.0 feet Time: 648a

Depth to Water: 11.68 feet

Height of Water Column (L): 38.32 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>649a</u>	<u>gal</u>	<u>7.56</u>	<u>5.89 mS/cm</u>	<u>21.2°</u>	<u>clear</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	<u>Not purged due to location</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 650a Time Finished: 650a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: PC-76

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, breezy

Well Information:

Total Well Depth: 20.50 feet Time: 6:52a

Depth to Water: 11.78 feet

Height of Water Column (L): 8.72 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= _____ gal. * <u>3</u> = _____	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: PC-77

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool breezy

Well Information:

Total Well Depth: 40.0 feet Time: 550a

Depth to Water: 7.69 feet

Height of Water Column (L) 32.31 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 5.16 gal. * 3 = 16 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Well Volume (WV) Purge Factor Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>552a</u>	—	—	—	—	—
<u>602a</u>	<u>5 gal</u>	<u>7.24</u>	<u>5.60 mS/cm</u>	<u>23.4°C</u>	<u>cloudy</u>
<u>616a</u>	<u>10 gal</u>	<u>7.38</u>	<u>5.58 mS/cm</u>	<u>23.6°C</u>	<u>clear</u>
<u>636a</u>	<u>16 gal</u>	<u>7.43</u>	<u>5.48 mS/cm</u>	<u>23.7°C</u>	<u>clear</u>
—	<u>gal</u>	—	—	—	—
—	<u>gal</u>	—	—	—	—
—	<u>gal</u>	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 638a Time Finished: 638a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: PC-118

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool Breezy

Well Information:

Total Well Depth: 22.0 feet Time: 5:46a

Depth to Water: 6.12 feet

Height of Water Column (L): 15.28 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO SAMPLE DTW ONLY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 9

Comments:

Water Sampling Field Log

Well No.: PC-79

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-21-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, Sunny

Well Information:

Total Well Depth: 45.0 feet Time: 9:16a

Depth to Water: 18.25 feet

Height of Water Column (L): <u>36.75</u> feet	Well Diameter (circle one)							
	2-in. 4-in. 6-in.							
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft		Well Volume (WV) = <u>5.88</u> gal.	* 3	= <u>18 gal</u>	Purge Volume

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>9:17a</u>	—	—	—	—	—
<u>9:20a</u>	<u>6 gal</u>	<u>7.32</u>	<u>3.77 mS/cm</u>	<u>26.2°C</u>	<u>clear</u>
<u>9:24a</u>	<u>12 gal</u>	<u>7.29</u>	<u>3.81 mS/cm</u>	<u>25.6°C</u>	<u>clear</u>
<u>9:27a</u>	<u>18 gal</u>	<u>7.27</u>	<u>3.96 mS/cm</u>	<u>25.8°C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 9:28a Time Finished: 9:28a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: Dup EC
3.82
EC
25.9
Temp

TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: PC-80

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-21-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Alley, Warm

Well Information: +10' extend

Total Well Depth: 30.0 feet Time: 9:30A

Depth to Water: 18.52 feet

Height of Water Column (L): <u>21.48</u> feet	Well Diameter (circle one)	Well	Purge	Purge		
	<table border="0" style="margin: auto;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">2-in.</td> <td style="text-align: center; border-bottom: 1px solid black;">4-in.</td> <td style="text-align: center; border-bottom: 1px solid black;">6-in</td> </tr> </table>	2-in.	4-in.	6-in	Volume (WV)	Factor
2-in.	4-in.	6-in				
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3 = _____		

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	NO SAMPLE
_____	gal	_____	_____	_____	DTW ONLY
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	well extended ~ 10'
_____	gal	_____	_____	_____	added 10' to TWD to get
_____	gal	_____	_____	_____	water column height

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: PC-81

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-21-13

Sampling Method: Electric Pump O Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: +10' extension warm breeze

Well Information:

Total Well Depth: 15.0 feet Time: 9:25

Depth to Water: 18.59 feet

Height of Water Column (L): 6.41 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	well extended - 10'
_____	_____ gal	_____	_____	_____	added 10' to original two
_____	_____ gal	_____	_____	_____	to get water col. height

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: PC-82

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-21-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warmy Sunny

Well Information: 10' extension

Total Well Depth: 57.50 feet Time: 940a

Depth to Water: 17.43 feet

Height of Water Column (L): <u>50.07</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	*0.16 gal/ft	*0.65 gal/ft	*1.47 gal/ft	= <u>8.01</u> gal.	* <u>3</u>	= <u>24.0</u>

Field Measurements: Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>941a</u>	---	---	---	---	
<u>945a</u>	<u>8</u> gal	<u>7.39</u>	<u>3.19 mS/cm</u>	<u>26.2°</u>	<u>clear</u>
<u>949a</u>	<u>16</u> gal	<u>7.44</u>	<u>3.16 mS/cm</u>	<u>25.3°</u>	<u>clear</u>
<u>953a</u>	<u>24</u> gal	<u>7.37</u>	<u>3.18 mS/cm</u>	<u>25.1°</u>	<u>clear</u>
_____	gal				
_____	gal				
_____	gal				

Sample Appearance: clear

Sample Collection - Time Start: 954c Time Finished: 954a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-83

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-21-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, sunny, breeze

Well Information: + 10' extend

Total Well Depth: 31.0 feet Time: 9:06a

Depth to Water: 16.89 feet

	Well Diameter (circle one)				
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	Well	Purge	Purge	
Height of Water Column (L): <u>24.11</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal. * 3 =

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	DTW ONLY
_____	gal	_____	_____	_____	NO SAMPLE
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	well extended ~10'
_____	gal	_____	_____	_____	added 10' on to original TDW
_____	gal	_____	_____	_____	to get height of water colm.

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 0

Comments:

Water Sampling Field Log

Well No.: PC-86

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-20-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm slight breeze

Well Information:

Total Well Depth: 43.00 feet Time: 8:54a

Depth to Water: 13.61 feet

Height of Water Column (L): <u>29.39</u> feet	Well Diameter (circle one)							
	2-in. 4-in. 6-in	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	gal.	* 3 =	_____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	NO SAMPLE
_____	gal	_____	_____	_____	DTW ONLY
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	approx 10' well extension due to Wetlands park dirt work
_____	gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: PC-86

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-21-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: warm, sunny, breeze

Well Information: well extend 10'

Total Well Depth: 28.0 feet Time: 842a

Depth to Water: - 13.28 feet

Water Column (L):	<u>24.72</u> feet	X	Well Diameter (circle one)			= <u>12 gal</u>
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>846a</u>	<u>12 gal</u>	<u>clear</u>

Comments: well extended ~ 10'
added 10' to TWD of original well
to ↑ purge volume
calculate

Sample Collection Time - 852a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-87

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-20-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm slight breeze

Well Information:

Total Well Depth: ^{x10} 13.00 feet Time: 8:50a

Depth to Water: 13.57 feet

	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="3">Well Diameter (circle one)</th> </tr> <tr> <td style="text-align: center;">2-in.</td> <td style="text-align: center;">4-in.</td> <td style="text-align: center;">6-in.</td> </tr> </table>	Well Diameter (circle one)			2-in.	4-in.	6-in.	Well Volume (WV)	Purge Factor	Purge Volume
Well Diameter (circle one)										
2-in.	4-in.	6-in.								
Height of Water Column (L): <u>9.43</u> feet	$0.16 \text{ gal/ft} \quad * \quad 0.65 \text{ gal/ft} \quad * \quad 1.47 \text{ gal/ft}$	=	_____ gal.	* <u>3</u>	= _____					

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	Approx 10' well extension due to Wetlands Park dirt work
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: PC-88

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-22-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Windy, Sunny

Well Information:

Total Well Depth: 50.50 feet Time: 9:38a

Depth to Water: 6.60 feet

	Well Diameter (circle one)		Well	Purge	Purge
	<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.		Volume (WV)	Factor	Volume
Height of Water Column (L): _____ feet	* 0.16 gal/ft	* 0.65 gal/ft	= _____ gal.	* 3	= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	NO SAMPLE
_____	_____ gal	_____	_____	_____	DTW ONLY
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	cement around fresh mount
_____	_____ gal	_____	_____	_____	broken - had home made & just sitting on top of well casing

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 8

Comments:

Water Sampling Field Log

Well No.: PC-90

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Windy Sunny

Well Information: TWP 13.24

Total Well Depth: 330 feet Time: 9:41a

Depth to Water: - 4.4 feet 6.42

Water Column (L): 6.52 feet X

Well Diameter (circle one)			Purge Volume
2-in.	4-in.	6-in	
0.4893	1.9	4.41	= <u>3 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>9:41a</u>	<u>3 gal</u>	<u>clear</u>

Comments: No well flush lid well cap is plug type but does not work

Sample Collection Time - 9:46a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>
TOTAL Bottles-					<u>4</u>

Water Sampling Field Log

Well No.: PC-91

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy, sunny, warm

Well Information:

Total Well Depth: 37.0 feet Time: 1002a

Depth to Water: - 12.42 feet

Water Column (L):	<u>24.58</u> feet	X	Well Diameter (circle one)			= <u>12gal</u>
			<u>2-in.</u>	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1003a</u>	<u>12gal</u>	<u>clear</u>

Comments:

Sample Collection Time - 1015a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 4

Water Sampling Field Log

Well No.: PC-920

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Sunny, Windy

Well Information: _____

Total Well Depth: 22.0 feet Time: 1020a

Depth to Water: - 12.05 feet

Water Column (L):	<u>9.95</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>5gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1023a</u>	<u>5 gal</u>	<u>clear</u>

Comments:

Sample Collection Time - 1026a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-94

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Warm, windy, sunny

Well Information:

Total Well Depth: 20.0 feet Time: 1137a

Depth to Water: - 13.11 feet

Water Column (L): 6.89 feet X

Well Diameter (circle one)		
2-in.	4-in.	6-in
0.4893	1.9	4.41

 = 3gal Purge Volume

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1137a</u>	<u>3gal</u>	<u>slightly cloudy</u>

Comments:

Sample Collection Time - 1141a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-95

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-22-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: _____

Well Information:

Total Well Depth: _____ feet Time: _____

Depth to Water: _____ feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in	Well	Purge	Purge	Purge
		Volume (WV)	Factor	Volume	Volume

Height of Water Column (L): _____ feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = _____ gal. * 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	Well destroyed years ago NOT Found
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	
_____	_____ gal	_____	_____	_____	

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: PC-96

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-15-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool breeze

Well Information:

Total Well Depth: 30.0 feet Time: 704a

Depth to Water: 6.96 feet

	Well Diameter (circle one)				
	2-in. 4-in. 6-in.				
Height of Water Column (L): <u>23.04</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>368</u> gal.	* <u>3</u> = <u>11 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>705a</u>	---	---	---	---	
<u>708a</u>	<u>3</u> gal	<u>7.73</u>	<u>3.99 mS/cm</u>	<u>22.1^oC</u>	<u>clear</u>
<u>709a</u>	<u>6</u> gal	<u>7.60</u>	<u>4.46 mS/cm</u>	<u>22.0^oC</u>	<u>clear</u>
<u>711a</u>	<u>11</u> gal	<u>7.52</u>	<u>4.38 mS/cm</u>	<u>22.0^oC</u>	<u>clear</u>
<u>713a</u>	<u>14</u> gal	<u>7.48</u>	<u>4.40 mS/cm</u>	<u>21.8^oC</u>	<u>clear</u>
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 714a Time Finished: 714a

Analyses:	<u>CLO4</u>	pH / TDS	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	1 BTL	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-97

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-22-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Warm, sunny, windy

Well Information:

Total Well Depth: 33.5 feet Time: 906a

Depth to Water: - 5.49 feet

Water Column (L):	<u>28.01</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>14 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>914a</u>	<u>14 gal</u>	<u>clear</u>

Comments:

Sample Collection Time - 923a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-98R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: windy, clear, warm

Well Information:

Total Well Depth: 40.5 feet Time: 1037a

Depth to Water: - 24.23 feet

Water Column (L):	<u>16.27</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in. 0.4893	<u>4-in. 1.9</u>	6-in. 4.41	

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1039a</u>	<u>31 gal</u>	<u>clear</u>

Comments: did not remove troll for DTW or to purge flush - NO bolts NO cap

Sample Collection Time - 1103a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-99R2/R3

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 57.4 feet Time: 1141a

Depth to Water: - 19.90 feet

Water Column (L):	<u>37.5</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>
_____	_____	_____

Comments: pumping well

Sample Collection Time - 140p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-101R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer Electric pump

Weather Conditions: windy warm

Well Information:

Total Well Depth: 50.5 feet Time: 927a

Depth to Water: - 29.66 feet

Water Column (L):	<u>20.34</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>10 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>928a</u>	<u>10 gal</u>	<u>clear</u>

Comments: flush
no bolts
PVC cap

Sample Collection Time - 938a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-103

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port O Disposable Bailer O Electric pump

Weather Conditions: Sunny, windy

Well Information:

Total Well Depth: 31.8 feet Time: 1023a

Depth to Water: - 23.48 feet

Water Column (L):	<u>8.32</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>4 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>1024a</u>	<u>4 gal</u>	<u>clear</u>

Comments: above pipe lock PVC

Sample Collection Time - 1028a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-107

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-8-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy, cool

Well Information:

Total Well Depth: 18.0 feet Time: 1003a

Depth to Water: 9.52 feet

Height of Water Column (L): 8.48 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	<input type="checkbox"/> 0.16 gal/ft <input type="checkbox"/> 0.65 gal/ft <input type="checkbox"/> 1.47 gal/ft	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> 1 gal <input type="checkbox"/> 2 gal <input type="checkbox"/> 3 gal <input type="checkbox"/> 4 gal
= <u>135</u> gal. * <u>3</u> = <u>4</u> gal			

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1007A</u>	—	—	—	—	—
<u>1009A</u>	<u>2</u> gal	<u>7.59</u>	<u>5.14 mS/cm</u>	<u>22.4°C</u>	<u>clear</u>
<u>1011A</u>	<u>3</u> gal	<u>7.39</u>	<u>6.16 mS/cm</u>	<u>22.4°C</u>	<u>cloudy</u>
<u>1012A</u>	<u>4</u> gal	<u>8.03</u>	<u>6.18 mS/cm</u>	<u>22.4°C</u>	<u>cloudy</u>
<u>1013a</u>	<u>5</u> gal	<u>7.40</u>	<u>6.01 mS/cm</u>	<u>22.4°C</u>	<u>dirty</u>
	gal				
	gal				

Sample Appearance: dirty

Sample Collection - Time Start: 1014a Time Finished: 1014a

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3

Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: PC-108

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-22-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm Sunny

Well Information: 4' extent

Total Well Depth: 45.0 feet Time: 1048a

Depth to Water: 14.48 feet

Height of Water Column (L): 34.52 feet

Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
2-in.	4-in.	6-in.			

$* 0.16 \text{ gal/ft} \quad * 0.65 \text{ gal/ft} \quad * 1.47 \text{ gal/ft}$

$= 5.52 \text{ gal.} \quad * 3 = 16.56 \text{ gal}$

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1051a</u>	—	—	—	—	—
<u>1055a</u>	<u>4 gal</u>	<u>7.08</u>	<u>3.57 mS/cm</u>	<u>23.4°C</u>	<u>clear</u>
<u>1058a</u>	<u>11 gal</u>	<u>7.15</u>	<u>3.54 mS/cm</u>	<u>22.4°C</u>	<u>clear</u>
<u>1101a</u>	<u>16 gal</u>	<u>7.26</u>	<u>3.50 mS/cm</u>	<u>21.9°C</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 1102a Time Finished: 1102a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	<u>pH / TDS / CRVI</u>	<u>pH / TDS / CRVI / NO3</u>	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Water Sampling Field Log

Well No.: PC-110

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-22-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Warm, windy, sunny

Well Information:

Total Well Depth: 37.0 feet Time: 1113a

Depth to Water: 15.18 feet

Height of Water Column (L): 21.82 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 3.49 gal. * 3 = 10 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1116a</u>	---	---	---	---	
<u>1119a</u>	<u>4</u> gal	<u>7.29</u>	<u>5.65 mS/cm</u>	<u>26.3 °C</u>	<u>clear</u>
<u>1120a</u>	<u>7</u> gal	<u>7.29</u>	<u>5.84 mS/cm</u>	<u>25.3 °C</u>	<u>clear</u>
<u>1122a</u>	<u>10</u> gal	<u>7.22</u>	<u>5.76 mS/cm</u>	<u>25.2 °C</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 1123a Time Finished: 1123a

Analyses:	<u>CLO4</u>	<u>pH/TDS</u>	<u>CR</u>	<u>pH/TDS/CRVI</u>	<u>pH/TDS/CRVI/NO3</u>	<u>pH/TDS/NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 2

Comments:

Dup EC
5.72
EC

25.3 °C
Temp

Water Sampling Field Log

Well No.: PC-115R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: Sunny, warm

Well Information:

Total Well Depth: 55.5 feet Time: 1147a

Depth to Water: - 12.61 feet

Water Column (L):	<u>42.89</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>
_____	_____	_____

Comments: pumping well

Sample Collection Time - 158p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-116R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: warm, sunny

Well Information:

Total Well Depth: 55.5 feet Time: 1132a

Depth to Water: - 15.80 feet

Water Column (L):	<u>39.7</u> feet	X	Well Diameter (circle one)			Purge Volume
			2-in.	4-in.	6-in	
			0.4893	1.9	4.41	= _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>

Comments: pumping well

Sample Collection Time - 150 p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>
					TOTAL Bottles- <u>3</u>

Water Sampling Field Log

Well No.: PC-117

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: hot, sunny

Well Information: _____

Total Well Depth: 55.0 feet Time: 1126a

Depth to Water: - 13.83 feet

Water Column (L): _____ feet	X	Well Diameter (circle one)			=	Purge Volume
		2-in.	4-in.	6-in		
		0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>

Comments: pumping well

Sample Collection Time - 156p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-118

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: hot sunny

Well Information: _____

Total Well Depth: 53.0 feet Time: 1156a

Depth to Water: - 9.93 feet

Water Column (L):	<u>43.07</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in</u>		
			0.4893	1.9	4.41		

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>
_____	_____	_____

Comments: pumping well

Sample Collection Time - 154p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>
					<u>3</u>
TOTAL Bottles-					<u>3</u>

Water Sampling Field Log

Well No.: PC-119

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port ● Disposable Bailer Electric pump

Weather Conditions: _____

Well Information:

Total Well Depth: 49.0 feet Time: _____

Depth to Water: - _____ feet

Water Column (L): _____ feet	X	Well Diameter (circle one)			=	Purge Volume
		2-in.	4-in.	6-in		
		0.4893	1.9	4.41		_____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	_____
_____	_____	<u>clear</u>

Comments: pumping well

Sample Collection Time - 125p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-120

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: _____

Well Information:

Total Well Depth: 49.0 feet Time: _____

Depth to Water: - _____ feet

Well Diameter (circle one)

2-in. 4-in. 6-in

Purge Volume

Water Column (L): _____ feet X 0.4893 1.9 4.41 = _____

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>

Comments: NOT pumping

Sample Collection Time - 130p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-121

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: hot sunny

Well Information:

Total Well Depth: 38.5 feet Time: 109p

Depth to Water: - 5.32 feet

Water Column (L):	<u>33.18</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	<u>4-in.</u>	<u>6-in.</u>		
			0.4893	1.9	4.41		

Field Measurements:

Depth Purging From: 2 ft below DTW

Time Purge Started

Cumulative Volume Purged

Observations of Sample

_____	_____	_____
_____	_____	<u>clear</u>

Comments: pump off

Sample Collection Time - 135p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-1220

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-23-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: windy, clear, sunny

Well Information: _____

Total Well Depth: 37.9 feet Time: 7:27a

Depth to Water: - 32.99 feet

Water Column (L):	<u>4.91</u> feet	X	Well Diameter (circle one)			=	Purge Volume
			<u>2-in.</u>	4-in.	6-in.		
			0.4893	1.9	4.41		<u>3 gal</u>

Field Measurements Depth Purging From: 2 ft. below depth to water

Time Purge Started	Cumulative Volume Purged	Observations of Sample
<u>7:28a</u>	<u>3 gal</u>	<u>clear</u>

Comments: clear

ants nest in this well - caution should be taken when removing pump & hose

flush no bottles plug

Sample Collection Time - 7:32a

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	<u>pH/ TDS /NO3</u>	<u>CLO3</u>	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>	<u>1 Bottle</u>

TOTAL Bottles- 3

Water Sampling Field Log

Well No.: PC-123

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cool cloudy

Well Information:

Total Well Depth: 34.70 feet Time: 4:39A

Depth to Water: 22.84 feet

Height of Water Column (L): <u>11.86</u> feet	Well Diameter (circle one)	Purge Volume (WV)	Purge Factor	Purge Volume
	2-in. 4-in. 6-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft
		= <u>1.89</u> gal.	* <u>3</u>	= <u>local</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>441A</u>	---	---	---	---	
<u>444A</u>	<u>2</u> gal	<u>6.86</u>	<u>7.94</u> mS/cm	<u>23.7</u> °C	<u>clear</u>
<u>445A</u>	<u>4</u> gal	<u>7.11</u>	<u>7.98</u> mS/cm	<u>23.1</u> °C	<u>clear</u>
<u>446A</u>	<u>6</u> gal	<u>7.16</u>	<u>7.98</u> mS/cm	<u>23.4</u> °C	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 448A Time Finished: 448A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-124

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: cloudy cool

Well Information:

Total Well Depth: 34.00 feet Time: 629A
 Depth to Water: 25.10 feet
 Height of Water Column (L): 9.50 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
0.16 gal/ft	0.65 gal/ft	1.47 gal/ft	= <u>1.52</u> gal.	* <u>3</u>	= <u>5</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>631A</u>	—	—	—	—	—
<u>634A</u>	<u>2 gal</u>	<u>7.35</u>	<u>10.60 mS/cm</u>	<u>23.3°C</u>	<u>clear</u>
<u>635A</u>	<u>4 gal</u>	<u>7.31</u>	<u>10.55 mS/cm</u>	<u>23.6°C</u>	<u>clear</u>
<u>636A</u>	<u>5 gal</u>	<u>7.31</u>	<u>10.41 mS/cm</u>	<u>23.8°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 638A Time Finished: 638A

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-125

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: sunny w/ clouds

Well Information:

Total Well Depth: 33.50 feet Time: 646A

Depth to Water: 23.30 feet

Height of Water Column (L): <u>10.20</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in.	Well Volume (WV)	Purge Factor	Purge Volume
		* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.63</u> gal.	* <u>3</u>	= <u>5 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>647A</u>	—	—	—	—	—
<u>649A</u>	<u>3 gal</u>	<u>7.36</u>	<u>9.86 mS/cm</u>	<u>22.4°C</u>	<u>clear</u>
<u>650A</u>	<u>4 gal</u>	<u>7.35</u>	<u>9.72 mS/cm</u>	<u>22.8°C</u>	<u>clear</u>
<u>651A</u>	<u>5 gal</u>	<u>7.35</u>	<u>9.81 mS/cm</u>	<u>22.7°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 652A Time Finished: 652A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-126

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cloudy breezy

Well Information:

Total Well Depth: 34.30 feet Time: 659 A

Depth to Water: 22.20 feet

Height of Water Column (L): 12.10 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 1.93 gal. * 3 = 6 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>702A</u>	—	—	—	—	—
<u>704A</u>	<u>2 gal</u>	<u>7.31</u>	<u>13.05 mS/cm</u>	<u>22.4°C</u>	<u>clear</u>
<u>705A</u>	<u>4 gal</u>	<u>7.33</u>	<u>13.01 mS/cm</u>	<u>22.9°C</u>	<u>clear</u>
<u>706A</u>	<u>6 gal</u>	<u>7.31</u>	<u>13.02 mS/cm</u>	<u>22.9°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 708A Time Finished: 708A

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-127

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: Breezy, cool

Well Information:

Total Well Depth: 34.70 feet Time: 741A

Depth to Water: 18.80 feet

Height of Water Column (L): <u>15.91</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in.	Well Volume (WV)	Purge Factor	Purge Volume
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>2.54</u> gal.	* <u>3</u>	= <u>8 gal</u>	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>743A</u>	—	—	—	—	—
<u>745A</u>	<u>3</u> gal	<u>7.51</u>	<u>7.45 ms/cm</u>	<u>22.9°c</u>	<u>clear</u>
<u>747A</u>	<u>6</u> gal	<u>7.49</u>	<u>7.51 ms/cm</u>	<u>23.4°c</u>	<u>clear</u>
<u>748A</u>	<u>8</u> gal	<u>7.48</u>	<u>7.51 ms/cm</u>	<u>23.5°c</u>	<u>clear</u>
—	gal	—	—	—	—
—	gal	—	—	—	—
—	gal	—	—	—	—

Sample Appearance: clear

Sample Collection - Time Start: 750A Time Finished: 750A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-128

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool slight breeze

Well Information:

Total Well Depth: 34.70 feet Time: 459A
 Depth to Water: 18.51 feet
 Height of Water Column (L): 16.19 feet * 2-in. gal/ft * 0.16 gal/ft * 4-in. gal/ft * 0.65 gal/ft * 6-in. gal/ft = 2.59 gal. * 3 = 8 gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>502A</u>	—	—	—	—	—
<u>507A</u>	<u>3 gal</u>	<u>7.27</u>	<u>7.14 mS/cm</u>	<u>24.4°</u>	<u>clear</u>
<u>509A</u>	<u>6 gal</u>	<u>7.35</u>	<u>7.29 mS/cm</u>	<u>23.8°</u>	<u>clear</u>
<u>511A</u>	<u>8 gal</u>	<u>7.39</u>	<u>7.13 mS/cm</u>	<u>24.3°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 512A Time Finished: 512A

Analyses: CLO4 pH / TDS CR pH / TDS / CRVI pH / TDS / CRVI / NO3 pH / TDS / NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-129

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool slight breeze

Well Information:

Total Well Depth: 37.70 feet Time: 5:18A

Depth to Water: 18.54 feet

Height of Water Column (L): <u>19.16</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in.	Well Volume (WV)	Purge Factor	Purge Volume
	0.16 gal/ft 0.65 gal/ft 1.47 gal/ft	= <u>306</u> gal.		*	<u>3</u>	=	<u>9</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>520A</u>	—	—	—	—	—
<u>523A</u>	<u>3</u> gal	<u>7.29</u>	<u>7.54 mS/cm</u>	<u>22.8°</u>	<u>clear</u>
<u>525A</u>	<u>6</u> gal	<u>7.29</u>	<u>7.95 mS/cm</u>	<u>23.1°</u>	<u>clear</u>
<u>527A</u>	<u>9</u> gal	<u>7.30</u>	<u>8.54 mS/cm</u>	<u>23.3°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 529A Time Finished: 529A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-130

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool

Well Information:

Total Well Depth: 49.70 feet Time: 534A

Depth to Water: 19.21 feet

	Well Diameter (circle one)		Well	Purge	Purge
	2-in. 4-in. 6-in.		Volume (WV)	Factor	Volume
Height of Water Column (L): <u>30.49</u> feet	<u>0.16 gal/ft</u> * 0.65 gal/ft * 1.47 gal/ft		= <u>4.87</u> gal.	* <u>3</u>	= <u>15</u> gal

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>537A</u>	—	—	—	—	—
<u>539A</u>	<u>5 gal</u>	<u>7.37</u>	<u>844 mS/cm</u>	<u>22.5^{oc}</u>	<u>clear</u>
<u>541A</u>	<u>10 gal</u>	<u>7.37</u>	<u>850 mS/cm</u>	<u>22.7^{oc}</u>	<u>clear</u>
<u>543A</u>	<u>15 gal</u>	<u>7.37</u>	<u>856 mS/cm</u>	<u>23.1^{oc}</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 545A Time Finished: 545A

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-131

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool, cloudy

Well Information:

Total Well Depth: 39.40 feet Time: 556A

Depth to Water: 10.90 feet

Height of Water Column (L): <u>28.5</u> feet	Well Diameter (circle one)	2-in.	4-in.	6-in.	Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>4.56</u> gal. * <u>3</u> = <u>14 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>557A</u>	—	—	—	—	—
<u>600A</u>	<u>5 gal</u>	<u>7.33</u>	<u>1298 mS/cm</u>	<u>23.3°C</u>	<u>clear</u>
<u>602A</u>	<u>10 gal</u>	<u>7.26</u>	<u>13.29 mS/cm</u>	<u>24.0°C</u>	<u>clear</u>
<u>604A</u>	<u>14 gal</u>	<u>7.29</u>	<u>13.38 mS/cm</u>	<u>24.2</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 606A Time Finished: 606A

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-132

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cloudy, cool

Well Information:

Total Well Depth: 39.70 feet

Time: 6:11A

Depth to Water: 9.61 feet

	Well Diameter (circle one)					
	2-in. 4-in. 6-in					
Height of Water Column (L): <u>30.09</u> feet	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>4.81</u> gal.	* <u>3</u>	= <u>15 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>6:13A</u>	—	—	—	—	—
<u>6:16A</u>	<u>5 gal</u>	<u>7.36</u>	<u>12.33 mS/cm</u>	<u>23.5°C</u>	<u>clear</u>
<u>6:18A</u>	<u>10 gal</u>	<u>7.28</u>	<u>12.41 mS/cm</u>	<u>24.4°C</u>	<u>clear</u>
<u>6:20A</u>	<u>15 gal</u>	<u>7.28</u>	<u>12.56 mS/cm</u>	<u>24.7°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection -

Time Start: 6:21A

Time Finished: 6:21A

Analyses:	<u>CLO4</u>	pH / TDS	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	<u>pH / TDS / NO3</u>	<u>CLO3</u>
Bottles:	<u>1 BTL</u>	1 BTL	<u>1 BTL</u>	1 BTL	1 BTL	<u>1 BTL</u>	<u>1 BTL</u>

TOTAL BOTTLES: 4

Comments:

Water Sampling Field Log

Well No.: PC-133

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown Date: 5-6-13

Sampling Method: Sample Port Disposable Bailer Electric pump

Weather Conditions: hot sunny

Well Information: _____

Total Well Depth: 40.2 feet Time: 145p

Depth to Water: - _____ feet

Water Column (L):	_____ feet	X	Well Diameter (circle one)			= _____
			2-in.	4-in.	6-in.	
			0.4893	1.9	4.41	

Field Measurements:	Depth Purging From: 2 ft below DTW	
Time Purge Started	Cumulative Volume Purged	Observations of Sample
_____	_____	<u>clear</u>
_____	_____	_____

Comments: pumpng well
NO DTW due to roots in well casing

Sample Collection Time - 145p

Analyses:	<u>pH/ TDS</u>	<u>CR</u>	pH/ TDS /NO3	CLO3	<u>CLO4</u>
Bottles:	<u>1 Bottle</u>	<u>1 Bottle</u>	1 Bottle	1 Bottle	<u>1 Bottle</u>

3
TOTAL Bottles-

Water Sampling Field Log

Well No.: PC-134A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-11-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cloudy, windy

Well Information:

Total Well Depth: 69.70 feet Time: 1143a

Depth to Water: 29.53 feet

	Well Diameter (circle one)		Well Volume (WV)	Purge Factor	Purge Volume			
Height of Water Column (L): <u>40.17</u> feet	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2-in.</td> <td style="padding: 2px;">4-in.</td> <td style="padding: 2px;">6-in.</td> </tr> </table>	2-in.	4-in.	6-in.	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>6.42</u> gal. * <u>3</u> = <u>19 gal</u>
2-in.	4-in.	6-in.						

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1147a</u>	—	—	—	—	—
<u>1152a</u>	<u>7 gal</u>	<u>7.73</u>	<u>2.48 mS/cm</u>	<u>25.2°C</u>	<u>clear</u>
<u>1156a</u>	<u>13 gal</u>	<u>7.48</u>	<u>9.53 mS/cm</u>	<u>24.9°C</u>	<u>clear</u>
<u>1200p</u>	<u>19 gal</u>	<u>7.42</u>	<u>10.24 mS/cm</u>	<u>24.9°C</u>	<u>clear</u>
<u>1204p</u>	<u>25 gal</u>	<u>7.39</u>	<u>10.63 mS/cm</u>	<u>24.9°C</u>	<u>clear</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1205pm Time Finished: 1205pm

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-135A

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-11-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: windy, cloudy

Well Information:

Total Well Depth: 50.8 feet Time: 12:11p

Depth to Water: 29.85 feet

Height of Water Column (L): <u>20.95</u> feet	Well Diameter (circle one)							
	2-in. 4-in. 6-in.							
	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>3.35</u> gal.		* 3	= <u>10 gal</u>	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>12:12p</u>	—	—	—	—	—
<u>12:14p</u>	<u>4</u> gal	<u>7.36</u>	<u>12.43 mS/cm</u>	<u>24.2°</u>	<u>clear</u>
<u>12:16p</u>	<u>7</u> gal	<u>7.38</u>	<u>11.19 mS/cm</u>	<u>24.5°</u>	<u>clear</u>
<u>12:18p</u>	<u>10</u> gal	<u>7.29</u>	<u>10.46 mS/cm</u>	<u>24.5°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 12:21p Time Finished: 12:21p

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Comments: FD-1 here dup EC 24.8° temp 10.53 EC TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: PC-136

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 40.3 feet Time: 1014a

Depth to Water: 33.93 feet

Height of Water Column (L): <u>6.37</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.01</u> gal.	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1015a</u>	—	—	—	—	—
<u>1017a</u>	<u>1</u> gal	<u>7.43</u>	<u>7.19 mS/cm</u>	<u>24.9°C</u>	<u>light yellow</u>
<u>1018a</u>	<u>2</u> gal	<u>7.40</u>	<u>7.17 mS/cm</u>	<u>25.1°C</u>	<u>light yellow</u>
<u>1019a</u>	<u>3</u> gal	<u>7.36</u>	<u>7.21 mS/cm</u>	<u>25.2°C</u>	<u>light yellow</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: light yellow

Sample Collection - Time Start: 1020a Time Finished: 1020a

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-137

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: warm, sunny, breezy

Well Information:

Total Well Depth: 13.70 feet Time: 949a

Depth to Water: 32.14 feet

Height of Water Column (L):	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in			
<u>41.56</u> feet	<u>0.16</u> gal/ft	<u>0.65</u> gal/ft	<u>1.47</u> gal/ft	<u>6.64</u> gal.	<u>3</u>	<u>= 20 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>951a</u>	—	—	—	—	—
<u>955a</u>	<u>7</u> gal	<u>7.67</u>	<u>3.94 mS/cm</u>	<u>24.9°c</u>	<u>clear</u>
<u>1000a</u>	<u>13</u> gal	<u>7.61</u>	<u>3.35 mS/cm</u>	<u>24.9°c</u>	<u>clear</u>
<u>1004a</u>	<u>20</u> gal	<u>7.57</u>	<u>3.17 mS/cm</u>	<u>24.8°c</u>	<u>clear</u>
<u>1008a</u>	<u>26</u> gal	<u>7.58</u>	<u>3.28 mS/cm</u>	<u>24.5°c</u>	<u>clear</u>
_____	_____ gal	_____	_____	_____	_____
_____	_____ gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1009a Time Finished: 1009a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-142

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Sunny cool

Well Information:

Total Well Depth: 34.5 feet Time: 908a

Depth to Water: 28.10 feet

Height of Water Column (L): 6.40 feet

Well Diameter (circle one)			Well	Purge	Purge
2-in.	4-in.	6-in.	Volume (WV)	Factor	Volume
* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.02 gal.</u>	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>909a</u>	—	—	—	—	—
<u>910a</u>	<u>1 gal</u>	<u>7.61</u>	<u>7.67 mS/cm</u>	<u>23.3°</u>	<u>clear</u>
<u>911a</u>	<u>2 gal</u>	<u>7.65</u>	<u>7.82 mS/cm</u>	<u>23.8°</u>	<u>clear</u>
<u>912a</u>	<u>3 gal</u>	<u>7.55</u>	<u>7.76 mS/cm</u>	<u>23.7°</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 913a Time Finished: 913a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-143

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: cool some clouds

Well Information:

Total Well Depth: 65.0 feet Time: 845a

Depth to Water: 31.10 feet

Height of Water Column (L): 33.9 feet

Well Diameter (circle one)	Well Volume (WV)	Purge Factor	Purge Volume
<input checked="" type="radio"/> 2-in. <input type="radio"/> 4-in. <input type="radio"/> 6-in.	* 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft	= <u>5.42</u> gal. * <u>3</u> = <u>16</u> gal	

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>848a</u>	—	—	—	—	—
<u>852a</u>	<u>6</u> gal	<u>738</u>	<u>1139</u> μ S/cm	<u>25.2</u> °C	<u>clear</u>
<u>855a</u>	<u>11</u> gal	<u>735</u>	<u>10.95</u> μ S/cm	<u>24.9</u> °C	<u>clear</u>
<u>858a</u>	<u>16</u> gal	<u>739</u>	<u>11.24</u> μ S/cm	<u>24.6</u> °C	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 900a Time Finished: 900a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-144

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: windy, cloudy

Well Information:

Total Well Depth: 39.7 feet Time: 1132a

Depth to Water: 30.92 feet

Height of Water Column (L): <u>8.78</u> feet	Well Diameter (circle one)			Well Volume (WV)	Purge Factor	Purge Volume
	2-in.	4-in.	6-in.			
	* 0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	= <u>1.40</u> gal.	* <u>3</u>	= <u>4 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>1134a</u>	—	—	—	—	—
<u>1136a</u>	<u>2 gal</u>	<u>7.63</u>	<u>7.63 mS/cm</u>	<u>24.9</u>	<u>clear</u>
<u>1137a</u>	<u>3 gal</u>	<u>7.49</u>	<u>7.58 mS/cm</u>	<u>25.0</u>	<u>clear</u>
<u>1138a</u>	<u>4 gal</u>	<u>7.45</u>	<u>7.54 mS/cm</u>	<u>25.1</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 1139a Time Finished: 1139e

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-145

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: Warm, sunny

Well Information:

Total Well Depth: 39.7 feet Time: 936a

Depth to Water: 33.95 feet

	Well Diameter (circle one)		Well	Purge	Purge
	2-in. 4-in. 6-in.		Volume (WV)	Factor	Volume
Height of Water Column (L): <u>5.75</u> feet	*0.16 gal/ft	*0.65 gal/ft	= <u>.92 gal.</u>	* <u>3</u>	= <u>3 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>937a</u>	—	—	—	—	
<u>938a</u>	<u>1 gal</u>	<u>7.32</u>	<u>10.90 mS/cm</u>	<u>25.2°</u>	<u>Very slightly cloudy</u>
<u>939a</u>	<u>2 gal</u>	<u>7.31</u>	<u>11.10 mS/cm</u>	<u>25.1°</u>	<u>clearing</u>
<u>940a</u>	<u>3 gal</u>	<u>7.29</u>	<u>10.98 mS/cm</u>	<u>24.8°</u>	<u>clear</u>
	gal				
	gal				
	gal				

Sample Appearance: clear

Sample Collection - Time Start: 941a Time Finished: 941a

Analyses:	<u>CLO4</u>	<u>pH / TDS</u>	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-147

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2" O

Weather Conditions: warm breezy

Well Information:

Total Well Depth: 31.7 feet ← Two 1/2 in. bails 32.0 ft Time: 9:29a

Depth to Water: 31.66 feet

	Well Diameter (circle one)					
	2-in. 4-in. 6-in.					
Height of Water Column (L): _____ feet	0.16 gal/ft	* 0.65 gal/ft	* 1.47 gal/ft	=	_____ gal.	* 3 = _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	Well dry
_____	gal	_____	_____	_____	NO Sample
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses:	CLO4	pH / TDS	CR	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: _____

Comments:

Water Sampling Field Log

Well No.: PC-148

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: Clearing, sunny

Well Information:

Total Well Depth: 50.2 feet Time: 630a

Depth to Water: 29.36 feet

	Well Diameter (circle one)		Well		Purge		Purge
Height of Water Column (L): <u>20.84</u> feet	2-in. 4-in. 6-in.	* 0.16 gal/ft	Volume (WV)	* 0.65 gal/ft	Factor	* <u>3</u>	Volume
	<u>6-in</u>	* <u>1.47 gal/ft</u>	<u>30</u> gal.				<u>92 gal</u>

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>632a</u>	—	—	—	—	—
<u>637a</u>	<u>8 gal</u>	<u>7.36</u>	<u>941 mS/cm</u>	<u>22.5°C</u>	<u>clear</u>
<u>643a</u>	<u>16 gal</u>	<u>7.42</u>	<u>9.69 mS/cm</u>	<u>22.1°C</u>	<u>clear</u>
<u>649a</u>	<u>24 gal</u>	<u>7.43</u>	<u>9.35 mS/cm</u>	<u>22.9°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 650a Time Finished: 650a

Analyses:	CLO4	pH/TDS	CR	pH/TDS/CRVI	pH/TDS/CRVI/NO3	pH/TDS/NO3	CLO3
Bottles:	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL	1 BTL

Historic data - well purges dry slow to recharge

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: PC-149

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer Non Dedicated Bailer Ready Flo 2"

Weather Conditions: calm, cool, sunny

Well Information:

Total Well Depth: 50.0 feet Time: 657a

Depth to Water: 29.95 feet

Height of Water Column (L): 20.05 feet * 0.16 gal/ft * 0.65 gal/ft * 1.47 gal/ft = 29.47 gal. * 3 = 88 gal

Well Diameter (circle one)
 2-in. 4-in. 6-in.

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>659a</u>	—	—	—	—	—
<u>708a</u>	<u>10 gal</u>	<u>7.37</u>	<u>5.20 mS/cm</u>	<u>23.1°C</u>	<u>clear</u>
<u>715a</u>	<u>20 gal</u>	<u>7.41</u>	<u>5.01 mS/cm</u>	<u>22.9°C</u>	<u>clear</u>
<u>721a</u>	<u>30 gal</u>	<u>7.46</u>	<u>5.22 mS/cm</u>	<u>22.8°C</u>	<u>clear</u>
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____
_____	<u>gal</u>	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 725a Time Finished: 725a

Analyses: CLO4 pH/TDS CR pH/TDS/CRVI pH/TDS/CRVI/NO3 pH/TDS/NO3 CLO3
 Bottles: 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL 1 BTL

Comments: historic well purges to dry flow to recharge sample collected before total amount purged TOTAL BOTTLES: 3

Water Sampling Field Log

Well No.: PC-150

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-7-13

Sampling Method: Electric Pump Dedicated Bailer O Non Dedicated Bailer O Ready Flo 2" O

Weather Conditions: cool, calm

Well Information:

Total Well Depth: 45.7 feet Time: 736a

Depth to Water: 30.36 feet

	Well Diameter (circle one)		Well		Purge		Purge
Height of Water Column (L): <u>15.34</u> feet	2-in. 4-in. 6-in.	* 0.16 gal/ft	Volume (WV)	* 0.65 gal/ft	Factor	* 3	Volume
			= _____ gal.				= _____

Field Measurements:

Depth Purging From: 2 ft. below depth to water

Time	Cumulative Volume Purged	pH	Specific Conductivity	Temp	Observations
<u>737a</u>	—	—	—	—	—
<u>752a</u>	<u>23 gal</u>	<u>7.42</u>	<u>7.51 mS/cm</u>	<u>23.8°C</u>	<u>clear</u>
<u>807a</u>	<u>46 gal</u>	<u>7.45</u>	<u>7.66 mS/cm</u>	<u>23.2°C</u>	<u>clear</u>
<u>823a</u>	<u>68 gal</u>	<u>7.42</u>	<u>7.46 mS/cm</u>	<u>23.1°C</u>	<u>clear</u>
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____
_____	gal	_____	_____	_____	_____

Sample Appearance: clear

Sample Collection - Time Start: 825a Time Finished: 825a

Analyses:	<u>CLO4</u>	pH / TDS	<u>CR</u>	pH / TDS / CRVI	pH / TDS / CRVI / NO3	pH / TDS / NO3	CLO3
Bottles:	<u>1 BTL</u>	<u>1 BTL</u>	<u>1 BTL</u>	1 BTL	1 BTL	1 BTL	1 BTL

TOTAL BOTTLES: 3

Comments:

Water Sampling Field Log

Well No.: I- AA

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: _____

Well Information:

Total Well Depth: 46.00 feet

Time: 107p

Depth to Water: 3176 feet

Height of Water Column (L): 14, 24 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: DTW ONLY

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AB

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-16-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: _____

Well Information:

Total Well Depth: 52.00 feet

Time: 1130

Depth to Water: 31.12 feet

Height of Water Column (L): 20.88 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: _____

DTW ONLY

Sample Collection -

Time Start: _____

Time Finished: _____

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AC

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: _____

Well Information:

Total Well Depth: 50.06 feet

Time: 1240p

Depth to Water: 29.05 feet

Height of Water Column (L): 20.95 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	<u>DTW ONLY</u>

Sample Appearance: _____

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AD

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: _____

Well Information:

Total Well Depth: 50.00 feet

Time: 1242p

Depth to Water: 29.21 feet

Height of Water Column (L): 20.79 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: _____ DTW ONLY

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- AR

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, warm

Well Information:

Total Well Depth: 45.0 feet Time: 1054A

Depth to Water: 29.63 feet ←

Height of Water Column (L): 15.37 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1155A</u>	<u>8.94 mS/cm</u>	<u>27.8°C</u>	<u>6.99</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 1156A Time Finished: 1156A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- B

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, cloudy, warm

Well Information:

Total Well Depth: 45.70 feet Time: 1107A

Depth to Water: 36.18 feet

Height of Water Column (L): 9.52 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1152A</u>	<u>8.12mS/cm</u>	<u>26.5°C</u>	<u>7.12</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 1153A Time Finished: 1153A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-C

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cloudy, breezy, warm

Well Information:

Total Well Depth: 43.80 feet Time: 1138A

Depth to Water: 28.30 feet

Height of Water Column (L): 15.50 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1140A</u>	<u>11.28 mS/cm</u>	<u>25.9°</u>	<u>7.41</u>	<u>slightly yellow</u>

Sample Appearance: slightly yellow

Sample Collection - Time Start: 1141A Time Finished: 1141A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-D

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: cloudy, breezy, warm

Well Information:

Total Well Depth: 47.70 feet

Time: 1143A

Depth to Water: 27.50 feet

Height of Water Column (L): 20.14 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1137A</u>	<u>9.65 mS/cm</u>	<u>27.0^{oC}</u>	<u>7.52</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection -

Time Start: 1138A

Time Finished: 1138A

Analyses: pH / TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-E

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy warm, cloudy

Well Information:

Total Well Depth: 46.70 feet Time: 1151A

Depth to Water: 43.70 feet

Height of Water Column (L): 3.00 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1131A</u>	<u>11.60 mS/cm</u>	<u>27.2°C</u>	<u>7.06</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 1132A Time Finished: 1132A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: 1-F

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy warm

Well Information:

Total Well Depth: 45.80 feet Time: 1158A

Depth to Water: 24.76 feet

Height of Water Column (L): 21.04 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1127A</u>	<u>13.81 mS/cm</u>	<u>27.5⁰⁰</u>	<u>7.05</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1128A Time Finished: 1128A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-G

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: overcast, warm

Well Information:

Total Well Depth: 42.60 feet Time: 12:11 p

Depth to Water: 40.25 feet ←

Height of Water Column (L): 2.35 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1/2/13</u>	<u>15.28 mS/cm</u>	<u>28.3°</u>	<u>7.11</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1/22A Time Finished: 1/22A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-H

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm breezy

Well Information:

Total Well Depth: 46.50 feet Time: 1218p

Depth to Water: 32.73 feet ←

Height of Water Column (L): 13.77 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1103A</u>	<u>15.06mS/cm</u>	<u>27.8°C</u>	<u>7.05</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1104A Time Finished: 1104A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- I

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Clear Cool

Well Information:

Total Well Depth: 44.20 feet Time: 125lep

Depth to Water: 23.62 feet

Height of Water Column (L): 20.58 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>5-20A</u>	<u>9.98</u>	<u>74.5 °F</u>	<u>7.24</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 5:20A Time Finished: 5:22A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- J

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Clear and Cool

Well Information:

Total Well Depth: 44.50 feet
Depth to Water: 36.55 feet ← Time: 1251 p

Height of Water Column (L): 7.95 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>5:09 A</u>	<u>6.88 mS/cm</u>	<u>74.5 °F</u>	<u>7.26</u> 6.87	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 5:09 A Time Finished: 5:10 A ^{7:03}

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-K

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Clear and Cool

Well Information:

Total Well Depth: 40.60 feet ← Time: 1248p

Depth to Water: 25.35 feet

Height of Water Column (L): _____ feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>5:04</u>	<u>6.78 mS/cm</u>	<u>75.8 °C</u>	<u>7.17</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 5:06 Time Finished: 5:06

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-L

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, warm

Well Information:

Total Well Depth: 43.40 feet Time: 1127A

Depth to Water: 26.81 feet ←

Height of Water Column (L): 16.59 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1147A</u>	<u>11.05 mS/cm</u>	<u>25.4°</u>	<u>7.31</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 1148A Time Finished: 1148A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- M

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, cloudy

Well Information:

Total Well Depth: 43.70 feet Time: 1146A

Depth to Water: 30.61 feet ←

Height of Water Column (L): 13.09 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1133A</u>	<u>10.45 mS/cm</u>	<u>26.9^oC</u>	<u>7.24</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 1134A Time Finished: 1134A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- N

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: breezy warm

Well Information:

Total Well Depth: 41.70 feet

Time: 1155k

Depth to Water: 26.33 feet

Height of Water Column (L): _____ feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1129A</u>	<u>13.20 mscm</u>	<u>28.2°</u>	<u>7.18</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection -

Time Start: 1130A

Time Finished: 1130A

Analyses: pH/TDS CR CLO4

Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-0

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm Breezy

Well Information:

Total Well Depth: 43.80 feet Time: 1240p

Depth to Water: 32.27 feet

Height of Water Column (L): 11.53 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1006a</u>	<u>13.86</u> mS/cm	<u>27.0</u> °C	<u>7.22</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1057a Time Finished: 1057a

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-P

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 47.80 feet Time: 1225p

Depth to Water: 4153 feet

Height of Water Column (L): 6.27 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1059A</u>	<u>14.73 mS/cm</u>	<u>26.9 °C</u>	<u>7.0</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1101A Time Finished: 1101A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Q

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy warm

Well Information:

Total Well Depth: 43.80 feet

Depth to Water: 28.37 feet

Time: 1203p

Height of Water Column (L): 15.43 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
1124A	14.66mS/cm	32.9°C	7.05	yellow

Sample Appearance: yellow

Sample Collection - Time Start: 1125A Time Finished: 1125A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-R

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 45.30 feet Time: 1120A

Depth to Water: 30.20 feet ←

Height of Water Column (L): 15.10 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1150A</u>	<u>10.50 mS/cm</u>	<u>26.5°C</u>	<u>7.05</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 1151A Time Finished: 1151A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-5

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, warm

Well Information:

Total Well Depth: 47.70 feet Time: 1133A

Depth to Water: 24.94 feet 

Height of Water Column (L): 22.76 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1144A</u>	<u>11.32 mS/cm</u>	<u>25.6 °C</u>	<u>7.38</u>	<u>clear</u>

Sample Appearance: clear

Sample Collection - Time Start: 1145A Time Finished: 1145A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-T

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm breezy

Well Information:

Total Well Depth: 47.80 feet Time: 1213p

Depth to Water: 28.68 feet

Height of Water Column (L): 19.12 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1106a</u>	<u>14.42mS/cm</u>	<u>30.2°</u>	<u>7.34</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1107a Time Finished: 1107a

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- U

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Breezy, warm

Well Information:

Total Well Depth: 47.60 feet Time: 1215p

Depth to Water: 29.31 feet

Height of Water Column (L): 18.29 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1117A</u>	<u>10.76 mS/cm</u>	<u>28.1°C</u>	<u>7.43</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1119A Time Finished: 1119A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- ✓

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-9-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: windy, warm

Well Information:

Total Well Depth: 47.70 feet Time: 1246p

Depth to Water: 31.69 feet

Height of Water Column (L): 16.01 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>1246p</u>	<u>11.99 mS/cm</u>	<u>76.9 °F</u>	<u>7.37</u>	<u>yellow</u>

Sample Appearance: yellow

Sample Collection - Time Start: 1247p Time Finished: 1247p

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- W

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm breezy

Well Information:

Total Well Depth: 50.0 feet

Time: 125p

Depth to Water: 29.93 feet

Height of Water Column (L): 20.07 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: DTW ONLY Not pumping

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-X

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 50.0 feet

Time: 122p

Depth to Water: 31.61 feet

Height of Water Column (L): 18.39 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: DTW ONLY NOT PUMPING

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I-4

Project No.: _____ Site: NERT PROJECT - HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane Date: 5-6-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Warm, breezy

Well Information:

Total Well Depth: 35.0 feet

Time: 116p

Depth to Water: 26.46 feet

Height of Water Column (L): 8.54 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
_____	_____	_____	_____	_____

Sample Appearance: _____ DTW ONLY NOT Pumping

Sample Collection - Time Start: _____ Time Finished: _____

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

Water Sampling Field Log

Well No.: I- Z

Project No.: _____ Site: NERT PROJECT- HENDERSON, NEVADA

Sampling Team: Michele Brown, Keinan Pate, Sherry Lane

Date: 5-13-13

Sampling Method: Sample taken from spigot on treatment system discharge line

Weather Conditions: Clear Cool

Well Information:

Total Well Depth: 37.00 feet Time: 1253p

Depth to Water: 30.25 feet

Height of Water Column (L): 6.75 feet

Field Measurements:

Time	Specific Conductivity	Temperature	pH	Observations
<u>5:14 A</u>	<u>7.70 mS/cm</u>	<u>74.0 °F</u>	<u>7.13</u>	<u>light yellow</u>

Sample Appearance: light yellow

Sample Collection - Time Start: 5:14 A Time Finished: 5:16 A

Analyses: pH / TDS CR CLO4
Bottles: 3 Bottles

Comments:

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Field Data Letter Report

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Appendix E
Correspondence with NDEP

June 10, 2013

Mr. Weiquan Dong, PE
Bureau of Corrective Actions, Special Projects Branch
Nevada Division of Environmental Protection
2030 E. Flamingo Rd., Suite 230
Las Vegas, Nevada 89119

Re: NERT Response to NDEP January 17, 2013 Comments on the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012, dated August 2012

Dear Mr. Dong:

On behalf of the Nevada Environmental Response Trust (the Trust), ENVIRON International Corporation (ENVIRON) has prepared an annotated response to the Nevada Division of Environmental Protection's (NDEP's) comments on the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012. The comments were included as Attachment A in a letter to the Trust dated January 17, 2013.

Please contact John Pekala at (602) 734-7710 if you have any comments or questions concerning this response to comments.

Sincerely,



John M. Pekala, CEM #2347
Senior Manager



Allan J. DeLorme, PE
Principal

Attachment

cc: BMI Compliance Coordinator, NDEP, BCA, Las Vegas
Brian Rakvica, McGinley and Associates, Las Vegas
NDEP c/o McGinley and Associates, Reno

ec: Shannon Harbour, NDEP
JD Dotchin, NDEP
Greg Lovato, NDEP
Stephen Tyahla, USEPA
Nevada Environmental Response Trust
Tanya O'Neill, Foley & Lardner LLP
Jeff Gibson, AMPAC
Mark Paris, BMI
Lee Farris, Landwell
Ranjit Sahu, BMI
Joe Kelly, Montrose
Paul Sundberg, Montrose

Curt Richards, Olin
Jay Gear, Olin
Ed Modiano, *de maximis, inc.*
Chuck Elmendorf, Stauffer
Nick Pogoncheff, Stauffer
George Crouse, Syngenta
David Hadzinsky, TIMET
Steve Sarandis, GEI Consultants
Kirk Stowers, Broadbent & Associates
Victoria Tyson, Tyson Contracting
Enoe Marcum, WAPA

Attachment A

Response to NDEP's January 17, 2013 Comments on the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012, dated August 2012

The NDEP Comments (numbered and italicized) and Response to Comments (RTCs) from ENVIRON on behalf of the Trust are presented below:

1. *General comment, in future Deliverables, please explain any discrepancy between the combined monthly discharge rate from the three well fields and the total monthly influent rate to the GWTP and the FBR Biological Treatment Plant (FBRBTP).*

Response: Future Deliverables will explain discrepancies between the combined monthly discharge rate from the three well fields and the total monthly influent rate to the Groundwater Treatment Plant (GWTP) and fluidized bed reactors (FBRs). According to Veolia Water North America (Veolia), the Groundwater Extraction and Treatment System (GWETS) operator, discrepancies are generally due to flow into and out of GW-11, as well as additions of stabilized Lake Mead water, which is used to maintain mechanical pump seals.

2. *Section 2, page 3, condense general conditions of groundwater at the site and discuss any changes from the previous Annual Performance Deliverable.*

Response: Future Deliverables will provide a condensed discussion of general groundwater conditions and will focus more on the observed differences from the previous year. This change has been implemented beginning with the 2012 Semi-Annual Performance Report.

3. *Section 2.1, page 5, third paragraph, the recommendation that adjusts the extraction rate of some individual wells within the Interceptor Well Field (IWF) and commences pumping at several new extraction wells (I-W, I-X, I-Y, I-AA, I-AB, I-AC, and I-AD) is likely appropriate but the analysis for this recommendation provided in Appendix E is preliminary and additional monitoring and analysis will be required to fully optimize the IWF capture zones. This also similarly applies to the Athens Well Field (AWF).*

Response: A preliminary analysis of groundwater capture and extraction at the Interceptor Well Field (IWF) and Athens Road Well Field (AWF) is outlined in Appendix E within the 2012 Annual Performance Report. ENVIRON agrees that the analysis described in Appendix E is a preliminary step. Additional monitoring and analysis will be required (including use of the approved groundwater model where appropriate) to evaluate the proposed optimization in operation of the IWF and AWF. ENVIRON is actively discussing the proposed optimization with NDEP as part of the Remedial Investigation and Feasibility Study (RI/FS) process.

4. *Section 2.4, page 8 Figure 4 reports a total influent of 842 gpm; however, the effluent reported is 901 gpm. Please discuss the 59 gpm discrepancy. Also, please clarify whether the perchlorate removed calculations are based on the influent or effluent flow rate.*

Response: According to Veolia, the discrepancy is due to flow into and out of GW-11 as well as additions of stabilized Lake Mead water, which is used to maintain the mechanical pump seals. The perchlorate removal calculations presented in the Deliverable are based on the extraction rates at each individual extraction well for the AWF and the SWF. For the IWF, the influent flow rates prior to entering the GWTP are used for these calculations. This will be clarified in future Deliverables as will any discrepancy between the two effluent totals.

5. *Tables, add a table of the plume mass of perchlorate, chromium, and TDS for 2002, 2006, and 2012. The table should follow the format of the Table 4-1 of the Capture Zone Evaluation Report, Tronox LLC, Henderson, Nevada (Northgate, December 10, 2010).*

Response: As allowed by available data, these tables will be prepared and included in the next Deliverable. ENVIRON plans to use the historical iso-concentration maps (where available) to estimate the mass totals.

6. *Tables 1, 2, and 3, change annual discharge rates to monthly discharge rates. The period should be the same as it in Table 6 (The period of Oct. 2002 to Jun. 2012). Add perchlorate, chromium, and the total dissolved solids (TDS) mass removal rates corresponding to the monthly discharge rates for each well.*

Response: A new table (Table 4) will be added to future Deliverables that includes monthly discharge rates for the current reporting period. This addition has been made beginning with the 2012 Semi-Annual Performance Report. ENVIRON would like to discuss the request to include monthly discharge rates back to 2002 with NDEP prior to implementation, since it is not clear how these data will be used to assess current system performance.

Calculations of monthly mass removal of perchlorate in the IWF, AWF, and SWF and of chromium in the IWF and AWF for the current reporting period will be included in the next Deliverable. The GWETS is not designed to remove TDS, and mass removal of TDS is not currently tracked; therefore, ENVIRON is not able to include TDS mass removal rates in the revised tables.

7. *Figures 2A, 2B, 2C, 2D, 10, and 22, please provide discussion regarding the cycles in both hydrographs and perchlorate concentrations.*

Response: Figures 2a through 2d show that since May 2006 water levels in downgradient wells showed a continual decline until February 2008 when refurbishment of the recharge trench was completed. Refurbishment of the trench allowed increased

recharge rates and a corresponding rise in water levels was observed. Peaks in water levels in downgradient wells observed around July 2008 and May 2010 (Figures 2a through 2d) are in response to increased recharge rates during those times. These figures also show a significant decline in water elevations in the downgradient wells beginning around September 2010, when the recharge trenches were shut down and groundwater mounding associated with the recharge trench began to dissipate. This discussion will be included in future Deliverables.

Figure 10 charts perchlorate concentrations at the IWF over time and shows generally decreasing trends since sampling for perchlorate began in 2002. There is insufficient historic data regarding well operation and site conditions to determine the root cause of historic perchlorate cycles. In general, fluctuations in concentration have moderated over time since 2002. The IWF and nearby wells will continue to be monitored in an effort to understand the relationship between groundwater elevations and recent changes in perchlorate concentration. This discussion will be included in future Deliverables.

Figure 22 shows historical water elevations at the City of Henderson (COH) Water Reclamation Facility (WRF) well line. This figure indicates that many of the historical low-concentration events in the wells appear to be associated with a rapid increase in the water levels, likely the result of increased infiltration from ponds located on COH property. This discussion will be included in future Deliverables.

8. *Figures 19A and 21A, please provide more detailed analysis on the increase of perchlorate concentration from December 2011 to June 2012 for Wells MW-K4, PC-103, PC-98R, and MW-K5.*

Response: Perchlorate concentrations in MW-K4 generally declined between January 2010 (300 mg/L) and December 2011 (150 mg/L), but rebounded from January 2012 to September 2012, once again reaching 300 mg/L. During the last three months of the reporting period, perchlorate levels in MW-K4 declined to a low of 210 mg/L in December 2012. These increases and decreases in perchlorate concentration in MW-K4 do not appear related to changes in water elevation. The higher and more variable perchlorate concentrations in well MW-K4 may be influenced by the well's location with respect to subsurface alluvial channels within the UMCf. This discussion will be updated in future Deliverables to discuss current site conditions.

Figures 21 and 21a present perchlorate concentration trends for these same wells over time. While there has been some variation in concentration over the last year, during the current performance period (July to December 2012), wells PC-103, PC-98R, and MW-K5 were generally consistent with concentrations from late-2011. This discussion will be updated in future Deliverables to discuss current site conditions.

9. *Plates, add 3D plume maps of perchlorate, chromium and TDS for 2002, 2006, and 2012. The 3D plume map should follow the format of Figure 4-2 of the Capture Zone Evaluation Report, Tronox LLC, Henderson, Nevada (Northgate, December 10, 2010).*

Response: ENVIRON would like to discuss the implications of this request with NDEP and the possibility of including this information in the forthcoming RI/FS.

10. *Plates 2, 6, 7, and 8, please provide these plates for each of the following years: 2002 and 2006 so that visual comparisons can be made with plume maps that are generated using consistent protocols and interpretations.*

Response: Plate 7A included in the 2012 Annual Performance Report presents perchlorate data from 2002. ENVIRON was able to locate the requested maps with the exception of the chromium map from 2002. We will continue to look for this map and (if available) will include it, along with the other requested maps, in the next Deliverable as a one-time submittal.

11. *Appendix E, the NDEP provides the following comments:*

- a. *General comment, this analysis represents a preliminary analysis that is mostly based upon previous monitoring of the site conditions and expert judgment of the site conditions. It is important to reemphasize the point made in the report that additional monitoring and analysis will be required to fully optimize the IWF and AWF capture zones.*

Response: ENVIRON agrees that additional monitoring and analysis will be required to evaluate optimization of the IWF and AWF. Future Deliverables will re-emphasize the need for additional monitoring and analysis during optimization of the IWF and AWF capture zones.

- b. *General comment, at the AWF site, the substantial reduction of pumping in ART-1 from 14.0 to 1.0 gpm should be reconsidered because the reduction in pumping may allow additional mass to migrate northward along the westernmost flank of the perchlorate plume. Perhaps one should consider balancing the reductions between ART-1 and ART-2 until further analysis could be performed with the groundwater model.*

Response: Any pumping changes within the AWF will be monitored closely and pumping rates will be adjusted accordingly if it appears additional mass migration is occurring near the ends of the AWF. As discussed, additional testing will be performed prior to and during implementation of the proposed changes.

- c. *General comment, NDEP suggests that the revisions to the existing groundwater flow model be done in a timely manner so it can be used to explore various operational changes and to determine the most optimal capture strategy.*

Ultimately the capture zone analysis should be done using a combination of groundwater flow modeling and measured data (e.g. KT3D_H2O and measured water levels). Please clarify this in the next Deliverable.

Response: ENVIRON agrees. The groundwater model dated April 25, 2012 and updated on February 21, 2013 was approved for use on April 4, 2013. The approved groundwater model will be used in conjunction with measured data to analyze and enhance capture.

- d. *Page E-3, the Deliverable states that water levels contours near the barrier wall were manually corrected. Please provide additional information on exactly how this was done. More specifically, clarify whether an estimated water level was used for every pumping location in place of the well function drift term and whether this manual adjustment was required for all wells or just those with very small pumping rates. Please state exactly how this problem was identified (e.g. KT3D_H2O predicted water levels at pumping locations were too high or too low).*

Response: Water levels and pumping rates were input into KT3D_H2O without any adjustments. However, the KT3D_H2O software does not have the ability to accurately interpolate contours adjacent to the groundwater barrier wall. Specifically, some of the software-created contours were not oriented perpendicular to the barrier wall, as hydrologic theory would dictate. Therefore, manual adjustments were made to groundwater contour lines directly adjacent to the barrier wall. ENVIRON is currently investigating alternative approaches to addressing the issue of representing contour lines at the barrier wall.

- e. *Page E-5, please note in this section that KT3D_H2 was used to delineated the capture zones presented in Figures E-1, E-2, E-3, and E-4.*

Response: KT3D_H2O was used to develop potentiometric lines. The capture zones were then delineated by manually drawing lines perpendicular to potentiometric lines.

- f. *Page E-5, please note how the perchlorate and chromium iso-concentration contours were generated for Figures E-1, E-2, E-3, and E-4.*

Response: Perchlorate iso-concentration contours in Figures E-1 and E-3 were hand drawn using contours identical to those on Plate 7 of the 2012 Annual Performance Report. Chromium iso-concentration contours in Figures E-2 and E-4 were hand drawn using contours identical to those on Plate 6 of the 2012 Annual Performance Report.

- g. Page E-5, 2nd paragraph and Figures E-3 and E-4, the hatched area shown in the center of Figures E-3 and E-4 is not shown in the legend. Please state that this is the zone in which the alluvium is unsaturated. If this zone represents an unsaturated alluvium, then please discuss how and why the iso-concentration contours were drawn in the region.*

Response: The hatched area shown in Figures E-3 and E-4 represents unsaturated alluvium as it had been presented in previous Deliverables. Iso-concentration contours were shown crossing the unsaturated alluvium since the concentrations depicted are for the Shallow Water Bearing Zone (WBZ), which, by convention, includes both the Qal and the UMCf.

- h. Sections 5.1, 2nd paragraph, please state the rationale for the increase or decrease in the discharge rate for each grouping of wells.*

Response: The adjustment of extraction rates was proposed on the basis of mass removal while also considering the maximum sustainable flow rates for each extraction well that have been established based on historical operation. For new wells that have not been operated, the maximum sustainable flows from nearby wells were used in conjunction with the lithologic logs to estimate reasonable anticipated flow rates. It is important to emphasize that the proposed flows are not meant to be permanent flows, but simply initial flow rates that will be further adjusted based on additional testing as indicated in Appendix E.

June 10, 2013

Mr. Weiquan Dong, PE
Bureau of Corrective Actions, Special Projects Branch
Nevada Division of Environmental Protection
2030 E. Flamingo Rd., Suite 230
Las Vegas, Nevada 89119

Re: NERT Response to NDEP April 29, 2013 Comments on the Electronic Data Deliverable from the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012, dated August 2012

Dear Mr. Dong:

On behalf of the Nevada Environmental Response Trust (the Trust), ENVIRON International Corporation (ENVIRON) has prepared an annotated response to the Nevada Division of Environmental Protection's (NDEP's) comments on the Electronic Data Deliverable (EDD) included as part of the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012. The comments were included as Attachment A in NDEP's letter to the Trust dated April 29, 2013.

Please contact John Pekala at (602) 734-7710 if you have any comments or questions concerning this response to comments.

Sincerely,



John M. Pekala, CEM #2347
Senior Manager



Allan J. DeLorme, PE
Managing Principal

Attachments

cc: BMI Compliance Coordinator, NDEP, BCA, Las Vegas
Brian Rakvica, McGinley and Associates, Las Vegas
NDEP c/o McGinley and Associates, Reno

ec: Shannon Harbour, NDEP
JD Dotchin, NDEP
Greg Lovato, NDEP
Stephen Tyahla, USEPA
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Jeff Gibson, AMPAC
Mark Paris, BMI
Lee Farris, Landwell
Ranajit Sahu, BMI
Joe Kelly, Montrose
Paul Sundberg, Montrose

Curt Richards, Olin
Jay Gear, Olin
Ed Modiano, de maximis
Chuck Elmendorf, Stauffer
Nick Pogoncheff, Stauffer
George Crouse, Syngenta
David Hadzinsky, TIMET
Steve Sarandis, GEI Consultants
Kirk Stowers, TIMET
Victoria Tyson, Tyson Contracting (for TIMET)
Enoe Marcum, WAPA

Attachment A

Nevada Environmental Response Trust (“NERT” or “the Trust”) Response to Nevada Division of Environmental Protection (NDEP) April 29, 2013 Comments on the Electronic Data Deliverable from the Annual Remedial Performance Report for Chromium and Perchlorate, July 2011 – June 2012, dated August 2012

The NDEP Comments (numbered and italicized) and Response to Comments (RTCs) from ENVIRON on behalf of the Trust are presented below:

1. *Sample top depth and sample bottom depth must be populated for all "WG" matrix samples.*

Response: The sample_top_depth and sample_bottom_depth fields have been populated with the groundwater well's top of screen and bottom of screen values. The following wells have no available well screen information and the depth fields have been left blank for these samples: H-11, H28A, H48, HM-2, HMW-13, HMW-14, HMW-15, HMW-16, MC-3, MC-6, MC-7.

2. *The litho field in the samples table needs to be populated for six "WG" matrix samples.*

Response: The six records are from SF-1 samples, which are not part of the reported sampling event and have been removed from the EDD.

3. *There are 422 records where validation_flag is NULL. This field must be populated with T (true) or F (false). T indicates the value was validated after the laboratory reported the value. The analytes that were not validated in this EDD should equal F.*

Response: All results now have the correct value set in the validation_flag field.

4. *The northing and easting fields need to be populated for location_id "SF-1."*

Response: SF-1 samples are not part of the reported sampling event and have been removed from the EDD.

5. *The hydro field in the samples table must be populated for six "WG" matrix samples.*

Response: The six records are from SF-1 samples, which are not part of the reported sampling event and have been removed from the EDD.

6. *For 49 records, result_reported is NULL and the detect_flag_fod = 'U'. For non-radionuclide non-detected results, the result_reported should equal the SQL, unless the value has been censored to a higher level because of mitigating factors (in this*

case, the reason for raising the reported value above the SQL should be very apparent from the final validation qualifier, reason code, and validation reason).

Response: The result_reported field has been populated for these samples.

- 7. There are 23 records where analyte_name = "Total Dissolved Solids" and the SQL is NULL. There are many other TDS results with the SQL reported. The SQL needs to be populated for these records.*

Response: The MDL and SQL fields have been populated for the results that had been missing these values.

Attachment 1
**Preliminary Estimate of Perchlorate, Chromium, and Total Dissolved Solids Mass
in Groundwater**

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ATTACHMENT 1

Preliminary Estimate of Perchlorate, Chromium and Total Dissolved Solids Mass in Groundwater

1. Introduction

The Nevada Environmental Response Trust operates a groundwater extraction and treatment system (GWETS) at the Site to remove perchlorate and hexavalent chromium from shallow groundwater. The GWETS consists of three extraction well fields: (1) the on-site Interceptor Well Field (IWF) and barrier wall; (2) the Athens Road Well Field (AWF), which is situated approximately 8,200 feet north (downgradient) of the IWF; and (3) the Seep Well Field (SWF) situated approximately 4,500 feet north of the AWF near the Las Vegas Wash.

The IWF coupled with the barrier wall provides capture of the highest concentrations of perchlorate and chromium in downgradient groundwater. Although the AWF captures lower concentrations of both perchlorate and chromium, it contributes significantly to the overall contaminant mass removal from the groundwater and mitigates its impact in downgradient groundwater. The SWF, which is in close proximity to the Las Vegas Wash, contributes the highest flows to the GWETS, but captures significantly lower concentrations of perchlorate than the other two well fields. Chromium concentrations are not of significant concern at the SWF. The performance and monitoring of the GWETS are discussed in detail in remedial performance monitoring reports submitted to the Nevada Division of Environmental Protection (NDEP) on a semi-annual basis.

The purpose of this study is to estimate the total mass of perchlorate, total chromium and total dissolved solids (TDS) in groundwater on-site, between the Site and the AWF, and between the AWF and Las Vegas Wash. The estimates are based on the chemical sampling data collected in 2002, 2006 and 2012. This report provides the details of the data used, list of assumptions and the methods used to carry out these estimations. The mass estimates are also compared to the mass removal rates presented in Appendix E of the 2012 Annual Performance Report (ENVIRON, 2012).

2. Data Compilation

2.1 Mass Estimate Boundaries

The mass estimates were performed within the boundaries defined in Figure 1. These boundaries divide the contaminant plumes into three areas: 1) on-site, 2) between the northern Site boundary and the AWF, and 3) between the AWF and Las Vegas Wash. The vertical extent of the mass estimation volume extends from the water table surface to the approximate depth of contamination in the Upper Muddy Creek Formation (UMCf). To account for differences in the porosity between aquifer materials in the alluvium and UMCf, the contaminant masses in these units were calculated separately.

The saturated thickness of alluvium was determined by comparing the groundwater elevations to the elevation of the alluvium/UMCf contact. The interpolated contact surface elevation between the alluvium and UMCf was extracted from the NDEP-approved groundwater model of the Site developed by Northgate (Northgate, 2010a). Site-wide historical hydrographs were examined over a period between 2002 through 2012 to determine whether there were significant changes in groundwater elevations during that period. The groundwater elevations have been relatively stable in the area over the last decade, and therefore the groundwater elevations from 2012 were used to determine the saturated thickness of the alluvium for all years.

The vertical extent of contamination in UMCf was estimated based on the cross-sectional maps at the three well fields presented in the 2012 Annual Performance Report (ENVIRON, 2012) as follows:

- At the IWF (Plate 3, ENVIRON, 2012), the deeper wells, M-134, M-136, M-164 and M-133, have perchlorate concentrations above the Environmental Protection Agency (EPA) defined maximum contaminate level (MCL) for Nevada. These wells are screened approximately 20 to 50 feet below the alluvium/UMCf contact. Based on this information, the contaminated saturated thickness of the UMCf was set to 50 feet in the on-site area.
- At the AWF (Plate 4, ENVIRON, 2012), the deeper wells, PC-134A and PC-148, have perchlorate concentrations above the MCL. These wells are screened approximately 5 to 15 feet below the alluvium/UMCf contact. The contaminated saturated thickness of the UMCf was set to 15 feet in the area extending from the site boundary to the AWF.
- At the SWF (Plate 5, ENVIRON, 2012), all well screens with measured concentrations are in the shallow alluvium. Hence, it was assumed that there is no contaminant mass in the UMCf north of the AWF.

2.2 Historical Chemical Concentration Data

The perchlorate, total chromium, and TDS groundwater sampling data for the years 2002, 2006, and 2012 were compiled from the NERT database. The data were sorted by the second quarter for each year to match the data presented in the Annual Performance Report of each year. There is limited total chromium and TDS data available for the year 2002 and these results were

not presented in the 2002 Annual Performance Report. As a result, no mass estimates were calculated for chromium and TDS in 2002. The location of wells with available sampling data for each year is presented on Figure 2. The contaminant iso-concentration contour lines presented in the Annual Reports for 2002, 2006, and 2012 were also incorporated into the interpolation process described in Section 4.3 below. All of the data used for this study are presented in a series of figures in Appendix A (available electronically).

2.3 Total Porosity

The total porosity values for the alluvium and UMCf used in the mass estimates were selected based on a review of historical Site documents. The data reviewed included the following:

- As part of a screening-level indoor air health risk assessment conducted for Tronox Parcels A/B, a total porosity of 0.366 was assumed for the shallow alluvium (Northgate, 2010b).
- To calculate leaching-based site-specific soil screening levels near the Beta Ditch, TIMET assumed an average porosity of 0.46 for shallow soil and 0.54 for the Muddy Creek Formation (TIMET, 2013).
- Based on the general soil types of alluvium (sand and gravel) and UMCf (sandy/silty clay), the total porosities for alluvium and UMCf are assumed as 0.25 and 0.4 respectively in the Site wide groundwater model developed by University of Las Vegas (UNLV, 2003).

For the mass estimates, porosity values of 0.366 for alluvium and 0.54 for the UMCf were used.

2.4 Data Preparation and Interpolation

Concentration data were interpolated onto a 40-foot grid using three different methods: kriging, spline, and contour interpolation. The data from individual wells was interpolated using kriging and spline methods. Kriging is a standard interpolation method, but it is not able to incorporate the abrupt change in concentration levels that occurs at the IWF barrier wall. To incorporate this effect, log-normalized concentrations were also interpolated using a spline method with a barrier function. In addition to the interpolations of point data, the hand drawn concentration contours presented in the 2002, 2006, and 2012 Annual Reports were used to generate concentration data grids. These hand-drawn contour lines incorporate hydrogeological features (such as the presence of paleochannels) or other trends that are more difficult to capture using automated interpolation procedures.

To perform the interpolations of point data, the following assumptions were made:

- 1) For non-detects, the concentration was set to half of the detection limit.
- 2) In lieu of TDS data for few locations in 2006, the laboratory conductivity values were multiplied by 0.67 to convert to TDS concentrations (McPherson, 1995).
- 3) The concentrations were log normalized prior to interpolation to reduce the skewness of the data.

- 4) The resulting concentration distributions were assumed to be representative of both the alluvium and UMCf.

The kriging interpolations were performed with KT3D_H2O using ordinary kriging on the log-normalized data values using a spherical variogram. The kriging results are presented in Appendix A, Figures 1-1a to 1-7b. The spline interpolations were performed in ArcGIS Spatial Analyst using the spline method with a barrier function. The results are presented in Appendix A, Figures 2-1a to 2-7b. Interpolation from the contour lines was performed using the Topo to Raster function within ArcGIS Spatial Analyst. These results are presented in Appendix A, Figures 3-1a to 3-7b.

3. Mass Estimates

3.1 Mass Estimate Calculations

For each aquifer, the dissolved mass within each grid cell was calculated by multiplying the concentration by the area of grid (1,600 square feet), the saturated thickness of aquifer, and the porosity of the aquifer material. The masses were then summed within the boundaries shown in Figure 1 for each aquifer.

Tables 1 to 3 present the mass estimates for perchlorate, total chromium and TDS based on the three interpolation methods. The mass estimates for the three methods are generally in agreement. The results demonstrate decreasing concentrations of perchlorate and chromium for both on-site and off-site areas of the plume over the course of the study period. The TDS concentration levels remain unchanged. A bar chart showing the different estimates is shown in Figure 3.

3.2 Validation of Interpolated Values

Two validation statistics were used to assess how well each interpolation fits the measured values. The validation results are presented in Table 4. The root mean squared error (RMSE) provides a measure of the accuracy of each interpolation by comparing the interpolated and measured values at each measurement location. By comparing RMSE values for individual chemicals, we observe that the lowest RMSE values are produced using the spline procedure, which is expected since the spline function produces a surface that passes through the data points. The RMSE values for kriging are about half those from contour interpolation.

The average percent difference (APD) was used to evaluate the relative bias of each interpolation. The APD for each interpolation was determined by dividing the average difference between the interpolated and measured values by the average measured value. The APD results ranged from -20 to 8.6 percent, with negative numbers indicating that the interpolated values are biased low relative to measured values. The APD values for the contour-based interpolations varied more significantly than the other interpolation methods. The interpolated values for perchlorate and chromium determined by kriging and spline were slightly biased low (< 3%) compared to measured values.

3.3 Historical Mass Removal Rates

For the purposes of verifying the mass estimate results, a summary of historical mass removed by the three extraction well fields was compiled from the results presented in Appendix E of the 2012 Annual Performance Report (ENVIRON, 2012). These annual mass removal rates were calculated using historical flow and concentration data from each extraction well. Table 5 compares the total contaminant mass removed by the extraction systems for the 2002-2006 and 2006-2012 time periods with the difference in total mass derived from the mass estimates. These values are in close agreement, providing evidence that the estimated parameters used to calculate the mass estimate (i.e. porosity, depth of contamination) are reasonable.

4. References

- ENSR. 2007. Semi-Annual Performance Report for Chromium and Perchlorate, Tronox LLC, Henderson, Nevada, July – December 2006. February 26, 2007.
- ENVIRON International Corporation (ENVIRON). 2012. Annual Remedial Performance Report for Chromium and Perchlorate, Nevada Environmental Response Trust Site, Henderson, Nevada July 2011 – June 2012. August 31.
- Kerr-McGee Corporation. 2002. Quarterly Performance Report for Chromium and Perchlorate, Kerr-McGee Corporation, Henderson, Nevada, Second Quarter 2002. August 1. Revised October 14, 2002.
- McPherson, Lori, 1995. Correlating Conductivity to PPM of Total Dissolved Solids. Reprinted from Water Engineering and Management. August.
- Northgate Environmental Management, Inc. (Northgate). 2010a. Capture Zone Evaluation Report. December 10.
- Northgate Environmental Management, Inc. (Northgate). 2010b. Revised Technical memorandum: Screening-Level Indoor Air Health Risk Assessment for 2008 Tronox Parcels A/B, Henderson, Nevada, November 12.
- TIMET. 2013. Calculation of leaching-based Site-specific levels BMI Beta Ditch/Northwestern ditches located on the Titanium Metals Corporation Plant Site, BMI Common Areas, Clark County, Nevada, February 26
- UNLV. 2003. Fate and Transport of Perchlorate in a Contaminated Site in the Las Vegas Valley prepared for USEPA

Tables

TABLE 1: PERCHLORATE MASS ESTIMATES
Nevada Environmental Response Trust Site
Henderson, Nevada

	On-site		Off-site to AWF		AWF to Wash		Entire Area
	Alluvium	UMCF	Alluvium	UMCF	Alluvium	UMCF	
Kriging							
2002	16	3,339	617	1,455	86	0	5,514
2006	11	2,106	488	1,110	10	0	3,724
2012	9	1,564	348	741	12	0	2,674
Spline							
2002	15	3,986	864	1,924	105	0	6,893
2006	11	2,246	605	1,321	15	0	4,199
2012	10	1,774	418	846	14	0	3,061
Contour							
2002	22	3,905	865	1,789	162	0	6,743
2006	11	2,181	523	1,111	17	0	3,843
2012	16	2,296	453	947	16	0	3,728

Notes:

Mass values are presented in metric tons.

AWF = Athens Road Well Field

UMCF = Upper Muddy Creek Formation

TABLE 2: CHROMIUM MASS ESTIMATES
Nevada Environmental Response Trust Site
Henderson, Nevada

	On-site		Off-site to AWF		AWF to Wash		Entire Area
	Alluvium	UMCF	Alluvium	UMCF	Alluvium	UMCF	
Kriging							
2006	0.06	28.79	1.62	4.18	0.10	0.00	34.76
2012	0.04	18.28	1.08	2.73	0.03	0.00	22.17
Spline							
2006	0.06	31.00	1.87	4.76	0.12	0.00	37.80
2012	0.04	20.04	1.19	2.89	0.05	0.00	24.22
Contour							
2006	0.05	33.60	1.44	3.43	0.52	0.00	39.04
2012	0.05	19.32	1.32	3.26	0.09	0.00	24.04

Notes:

Mass values are presented in metric tons.

AWF = Athens Road Well Field

UMCF = Upper Muddy Creek Formation

TABLE 3: TOTAL DISSOLVED SOLIDS MASS ESTIMATES
Nevada Environmental Response Trust Site
Henderson, Nevada

	On-site		Off-site to AWF		AWF to Wash		Entire Area
	Alluvium	UMCF	Alluvium	UMCF	Alluvium	UMCF	
Kriging							
2006	1,966	66,940	26,874	50,576	14,598	7	160,961
2012	2,079	67,787	26,700	50,381	13,801	0	160,748
Spline							
2006	1,999	66,300	27,970	53,701	14,218	0	164,187
2012	2,203	70,826	27,728	52,779	13,639	0	167,174
Contour							
2006	1,921	82,967	31,623	60,064	19,095	63	195,732
2012	2,075	84,082	29,051	55,267	19,264	53	189,792

Notes:

Mass values are presented in metric tons.

AWF = Athens Road Well Field

UMCF = Upper Muddy Creek Formation

TABLE 4: VALIDATION STATISTICS FOR INTERPOLATIONS
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte	Year	Root Mean Square (RMS) Error [a]			Average Percent Difference [b]		
		Kriging	Spline	Contour	Kriging	Spline	Contour
Perchlorate	2002	106.46	55.20	354.46	-2.14	-0.21	2.59
	2006	111.28	62.57	348.97	-0.85	-0.17	-20.09
	2012	69.28	20.71	113.07	-2.79	-0.51	-5.90
Chromium	2006	0.79	0.01	1.48	-2.15	-0.01	5.77
	2012	0.76	0.60	1.57	-2.81	-1.91	-12.21
TDS	2006	946.84	1,014.31	2,250.31	8.00	7.38	8.61
	2012	408.13	180.50	2,224.00	-0.79	0.06	4.03

Notes:

[a] Calculated as follows for all measurements used in an interpolation:

$$\sqrt{\frac{\text{sum}(\text{measured} - \text{interpolated})^2}{\text{number of samples}}}$$

[b] Calculated as the average difference between the interpolated and measured values, divided by the average measured value. A negative value indicates the average interpolated value is biased low relative to the measured value.

TABLE 5: COMPARISON OF MASS REMOVAL ESTIMATES
Nevada Environmental Response Trust Site
Henderson, Nevada

	Plume Mass Reduction [a]			Mass Removed by Pumping [b]
	Kriging	Spline	Contour	
Perchlorate				
2002 - 2006	1,790	2,693	2,900	1,305
2006 - 2012	1,050	1,138	115	1,489
Chromium				
2006 - 2012	13	14	15	10

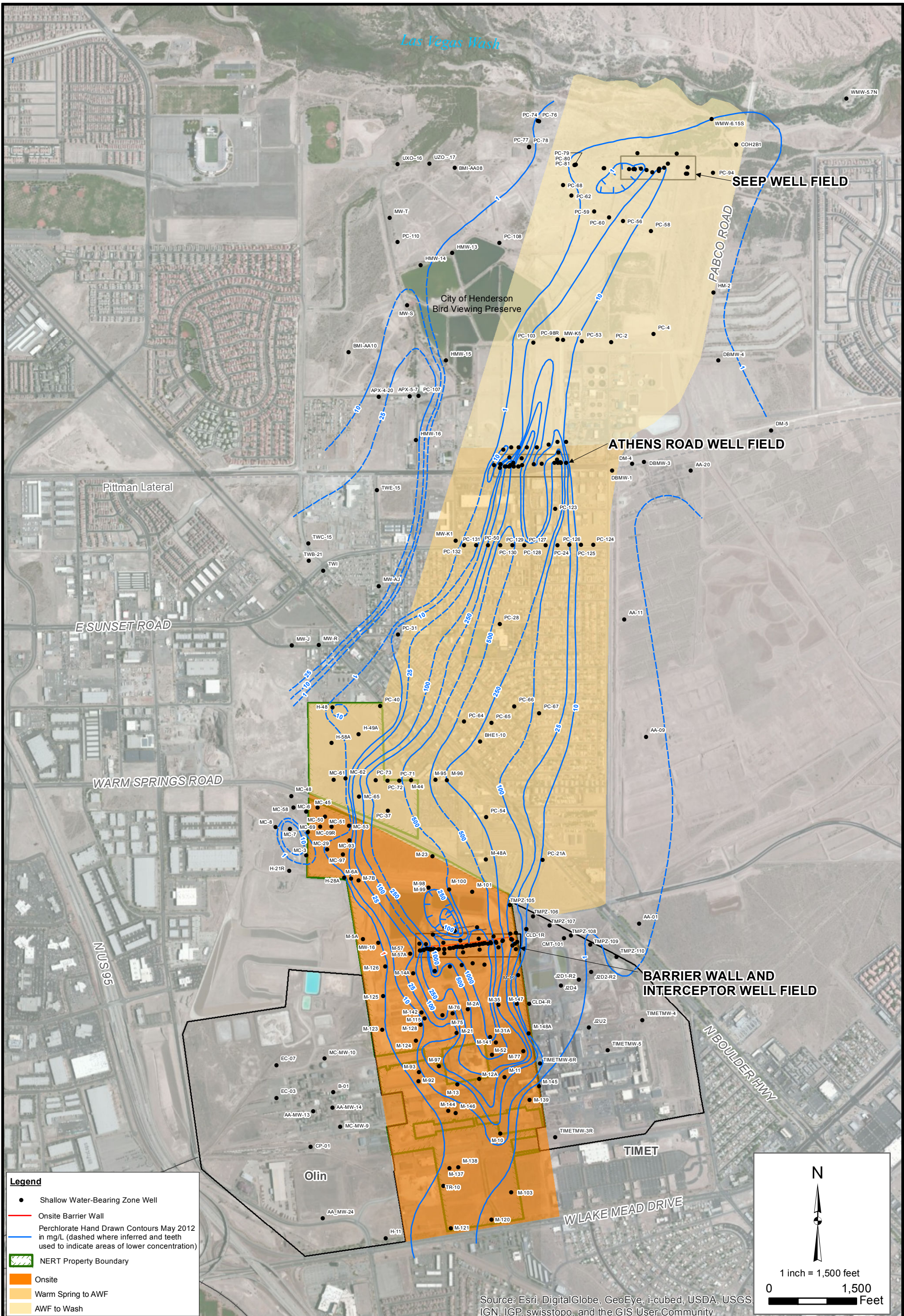
Notes:

Data presented in metric tons.

[a] Estimated reduction in mass derived from contaminant plume mass estimates - see Tables 1-3.

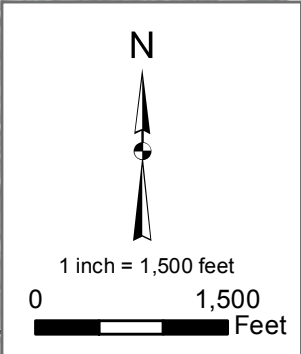
[b] Mass removed by pumping derived from measured flow rates and concentration at extraction wells.

Figures

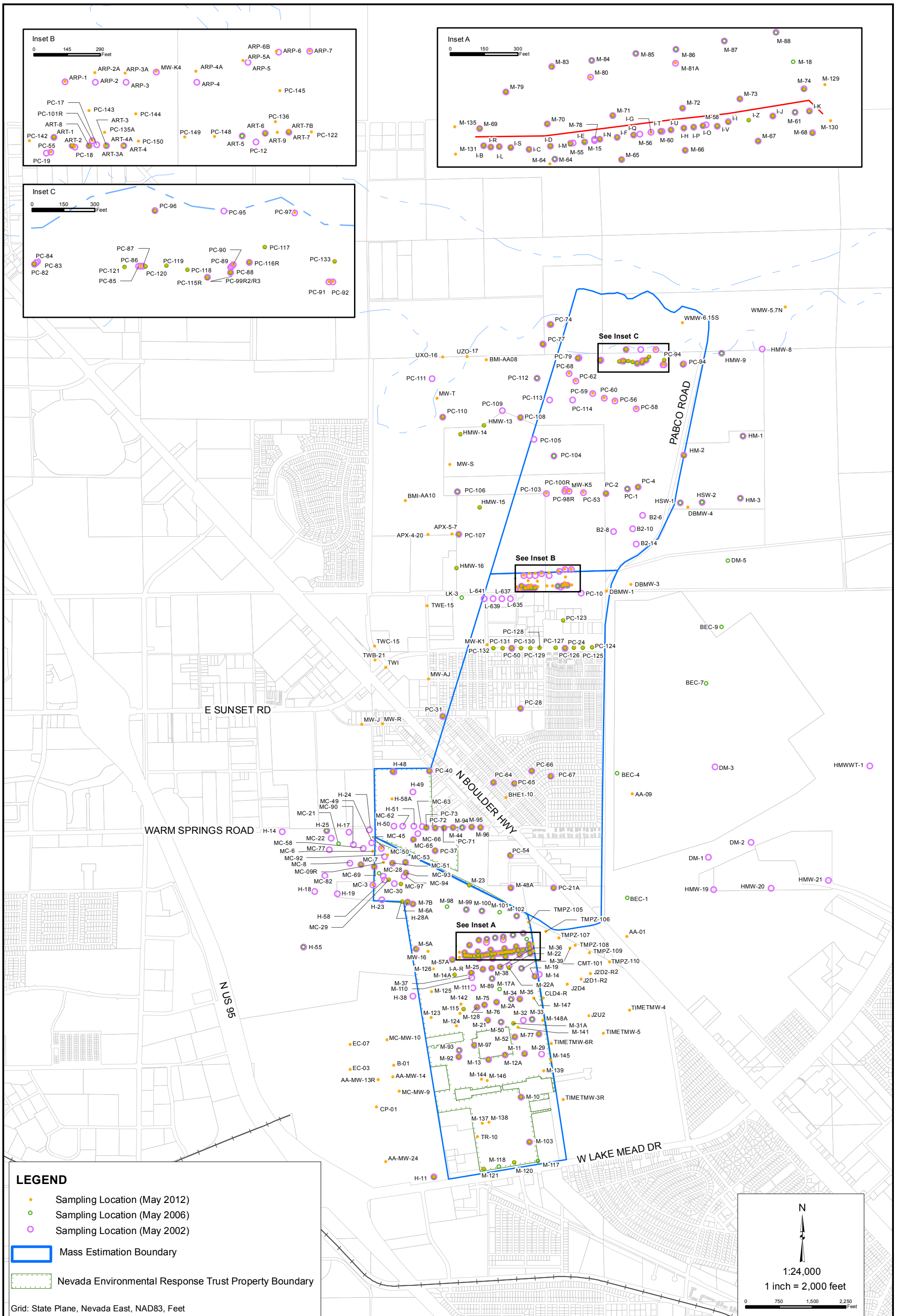


- Legend**
- Shallow Water-Bearing Zone Well
 - Onsite Barrier Wall
 - Perchlorate Hand Drawn Contours May 2012 in mg/L (dashed where inferred and teeth used to indicate areas of lower concentration)
 - ▭ NERT Property Boundary
 - ▭ Onsite
 - ▭ Warm Spring to AWF
 - ▭ AWF to Wash

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



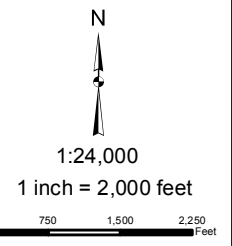
Path: H:\LerFetomane\NERT\GWET\21-32100H\5-Mass Calculations\Mass Estimation Memo\Figures\Fig-1-Plume Mass Estimation Boundaries.mxd



LEGEND

- Sampling Location (May 2012)
- Sampling Location (May 2006)
- Sampling Location (May 2002)
- Mass Estimation Boundary
- Nevada Environmental Response Trust Property Boundary

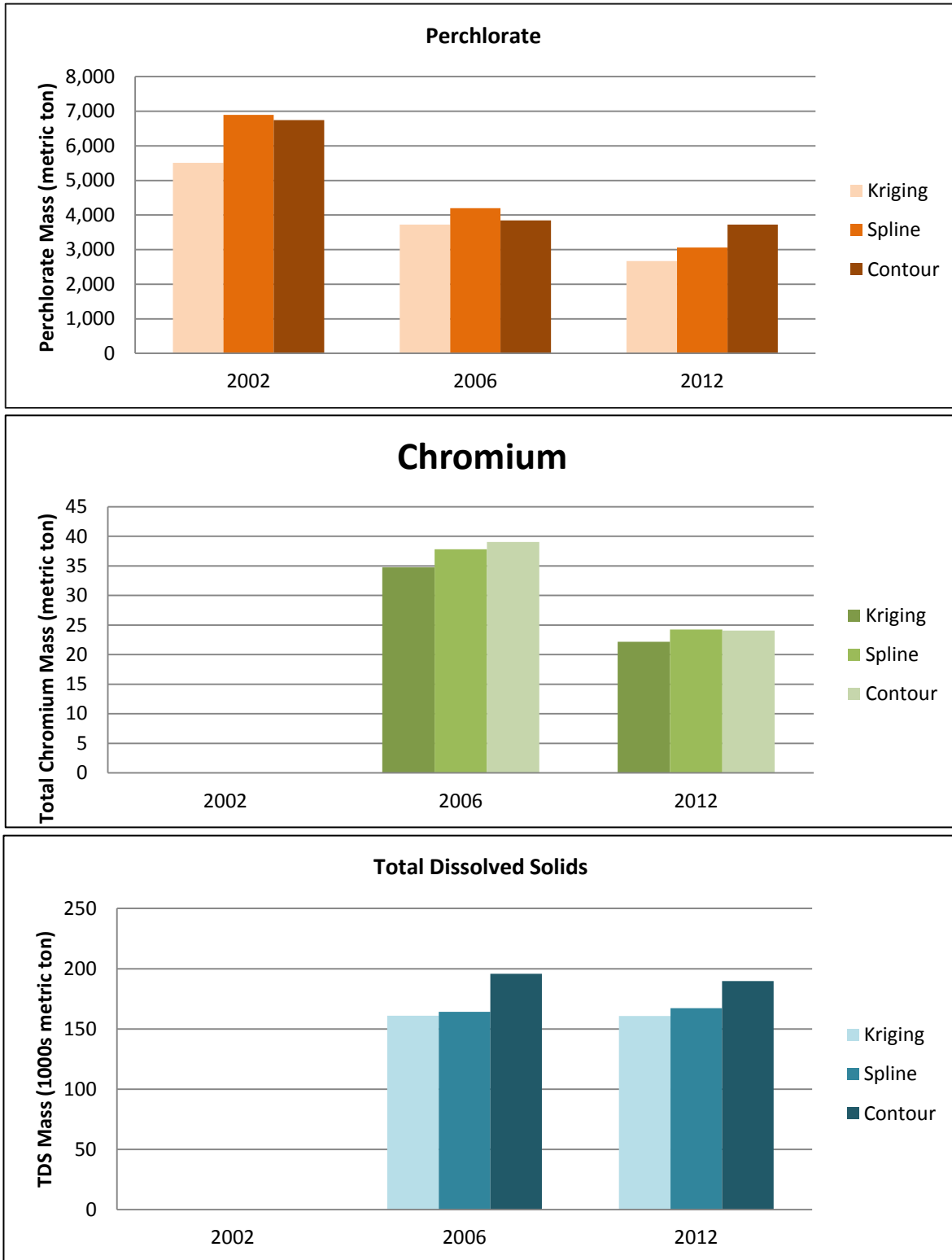
Grid: State Plane, Nevada East, NAD83, Feet



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FIGURE 3: COMPARISON OF MASS ESTIMATE

Nevada Environmental Response Trust
Henderson, Nevada



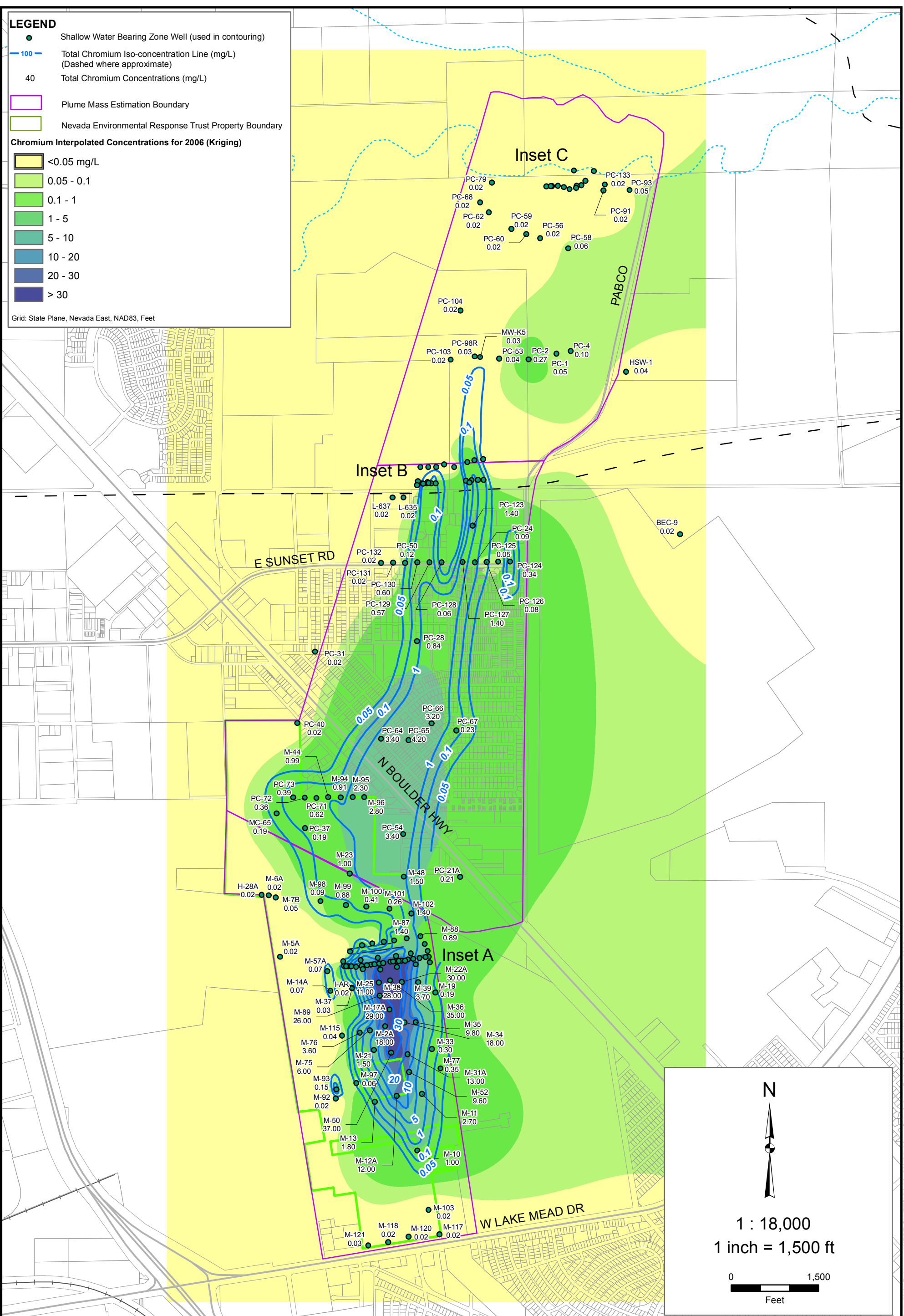
Appendix A
Iso-Concentration Maps for Perchlorate, Total Chromium and TDS
(available in electronic format)

List of Figures in Appendix A

- 1-1a. Kriging Interpolation of Groundwater Chromium (2006) – Overview Map
- 1-1b. Kriging Interpolation of Groundwater Chromium (2006) – Inset Map
- 1-2a. Kriging Interpolation of Groundwater Chromium (2012) – Overview Map
- 1-2b. Kriging Interpolation of Groundwater Chromium (2012) – Inset Map
- 1-3a. Kriging Interpolation of Groundwater Perchlorate (2002) – Overview Map
- 1-3b. Kriging Interpolation of Groundwater Perchlorate (2002) – Inset Map
- 1-4a. Kriging Interpolation of Groundwater Perchlorate (2006) – Overview Map
- 1-4b. Kriging Interpolation of Groundwater Perchlorate (2006) – Inset Map
- 1-5a. Kriging Interpolation of Groundwater Perchlorate (2012) – Overview Map
- 1-5b. Kriging Interpolation of Groundwater Perchlorate (2012) – Inset Map
- 1-6a. Kriging Interpolation of Groundwater TDS (2006) – Overview Map
- 1-6b. Kriging Interpolation of Groundwater TDS (2006) – Inset Map
- 1-7a. Kriging Interpolation of Groundwater TDS (2012) – Overview Map
- 1-7b. Kriging Interpolation of Groundwater TDS (2012) – Inset Map

- 2-1a. Spline Interpolation of Groundwater Chromium (2006) – Overview Map
- 2-1b. Spline Interpolation of Groundwater Chromium (2006) – Inset Map
- 2-2a. Spline Interpolation of Groundwater Chromium (2012) – Overview Map
- 2-2b. Spline Interpolation of Groundwater Chromium (2012) – Inset Map
- 2-3a. Spline Interpolation of Groundwater Perchlorate (2002) – Overview Map
- 2-3b. Spline Interpolation of Groundwater Perchlorate (2002) – Inset Map
- 2-4a. Spline Interpolation of Groundwater Perchlorate (2006) – Overview Map
- 2-4b. Spline Interpolation of Groundwater Perchlorate (2006) – Inset Map
- 2-5a. Spline Interpolation of Groundwater Perchlorate (2012) – Overview Map
- 2-5b. Spline Interpolation of Groundwater Perchlorate (2012) – Inset Map
- 2-6a. Spline Interpolation of Groundwater TDS (2006) – Overview Map
- 2-6b. Spline Interpolation of Groundwater TDS (2006) – Inset Map
- 2-7a. Spline Interpolation of Groundwater TDS (2012) – Overview Map
- 2-7b. Spline Interpolation of Groundwater TDS (2012) – Inset Map

- 3-1a. Contour Interpolation of Groundwater Chromium (2006) – Overview Map
- 3-1b. Contour Interpolation of Groundwater Chromium (2006) – Inset Map
- 3-2a. Contour Interpolation of Groundwater Chromium (2012) – Overview Map
- 3-2b. Contour Interpolation of Groundwater Chromium (2012) – Inset Map
- 3-3a. Contour Interpolation of Groundwater Perchlorate (2002) – Overview Map
- 3-3b. Contour Interpolation of Groundwater Perchlorate (2002) – Inset Map
- 3-4a. Contour Interpolation of Groundwater Perchlorate (2006) – Overview Map
- 3-4b. Contour Interpolation of Groundwater Perchlorate (2006) – Inset Map
- 3-5a. Contour Interpolation of Groundwater Perchlorate (2012) – Overview Map
- 3-5b. Contour Interpolation of Groundwater Perchlorate (2012) – Inset Map
- 3-6a. Contour Interpolation of Groundwater TDS (2006) – Overview Map
- 3-6b. Contour Interpolation of Groundwater TDS (2006) – Inset Map
- 3-7a. Contour Interpolation of Groundwater TDS (2012) – Overview Map
- 3-7b. Contour Interpolation of Groundwater TDS (2012) – Inset Map



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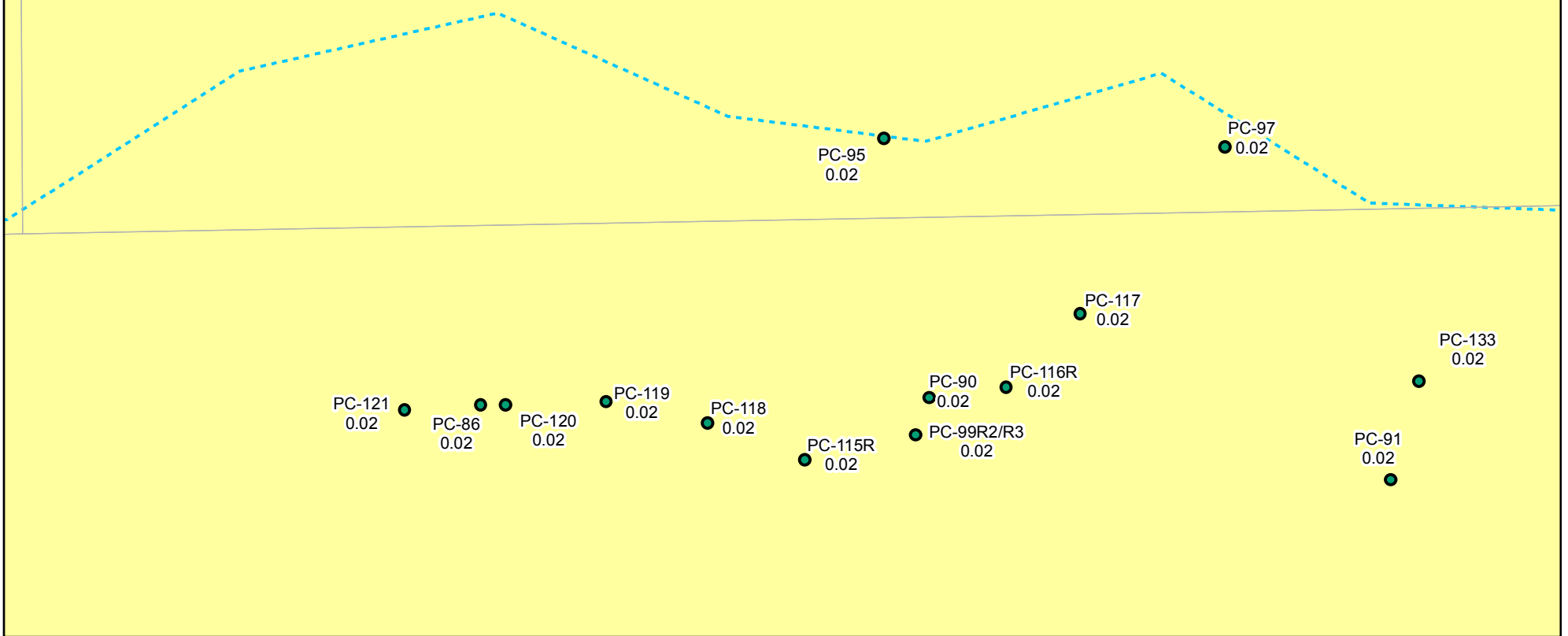
Kriging Interpolation of Groundwater Chromium (2006)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

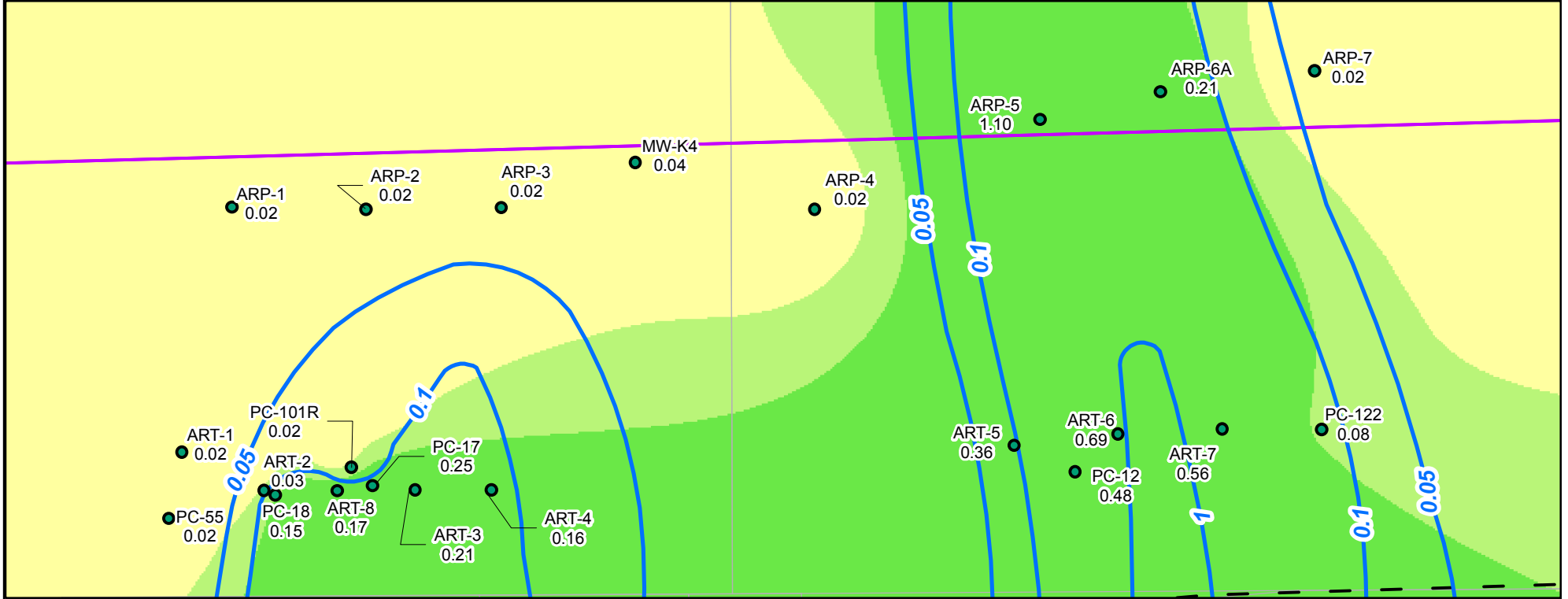
Figure
1-1a

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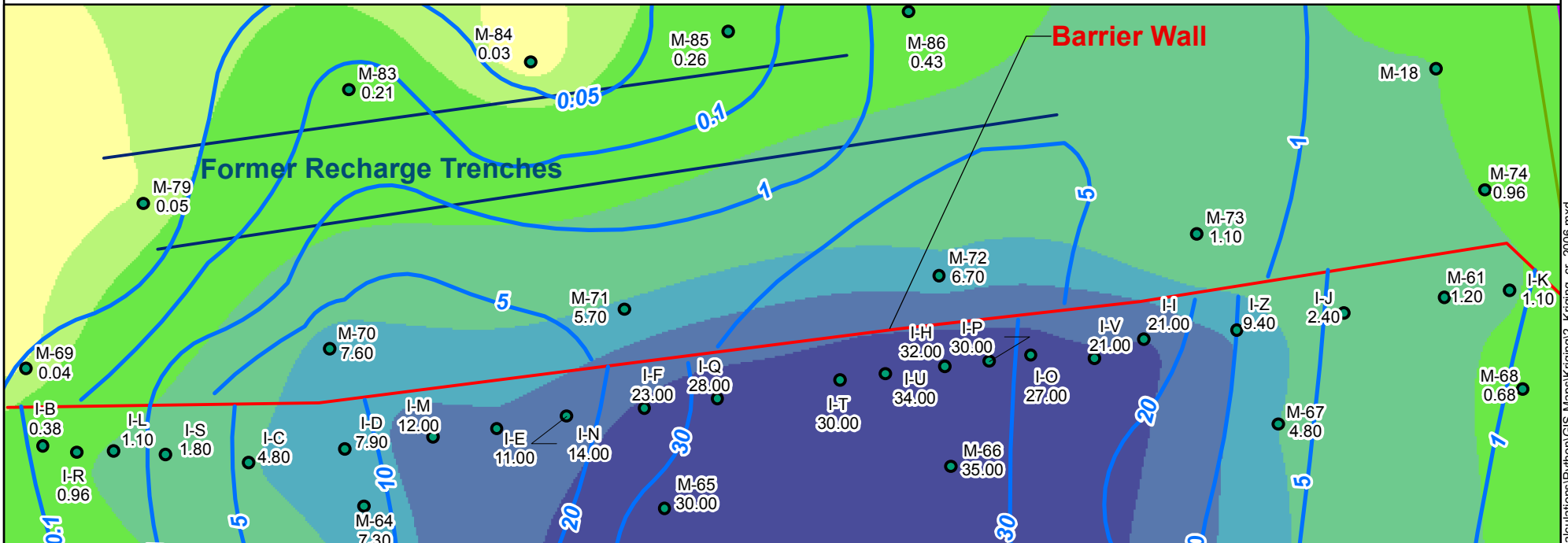
Inset C



Inset B



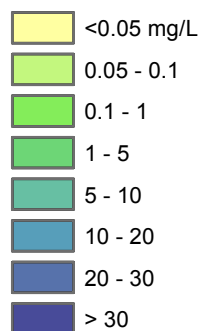
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LEGEND

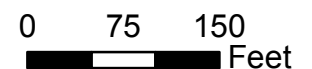
- Shallow Water Bearing Zone Well (used in Contouring)
- - - Total Chromium Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Chromium Concentration (mg/L)
- Plume Mass Estimation Boundary

Chromium Interpolated Concentrations for 2006 (Kriging)



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet

Kriging Interpolation of Groundwater Chromium (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
1-1b



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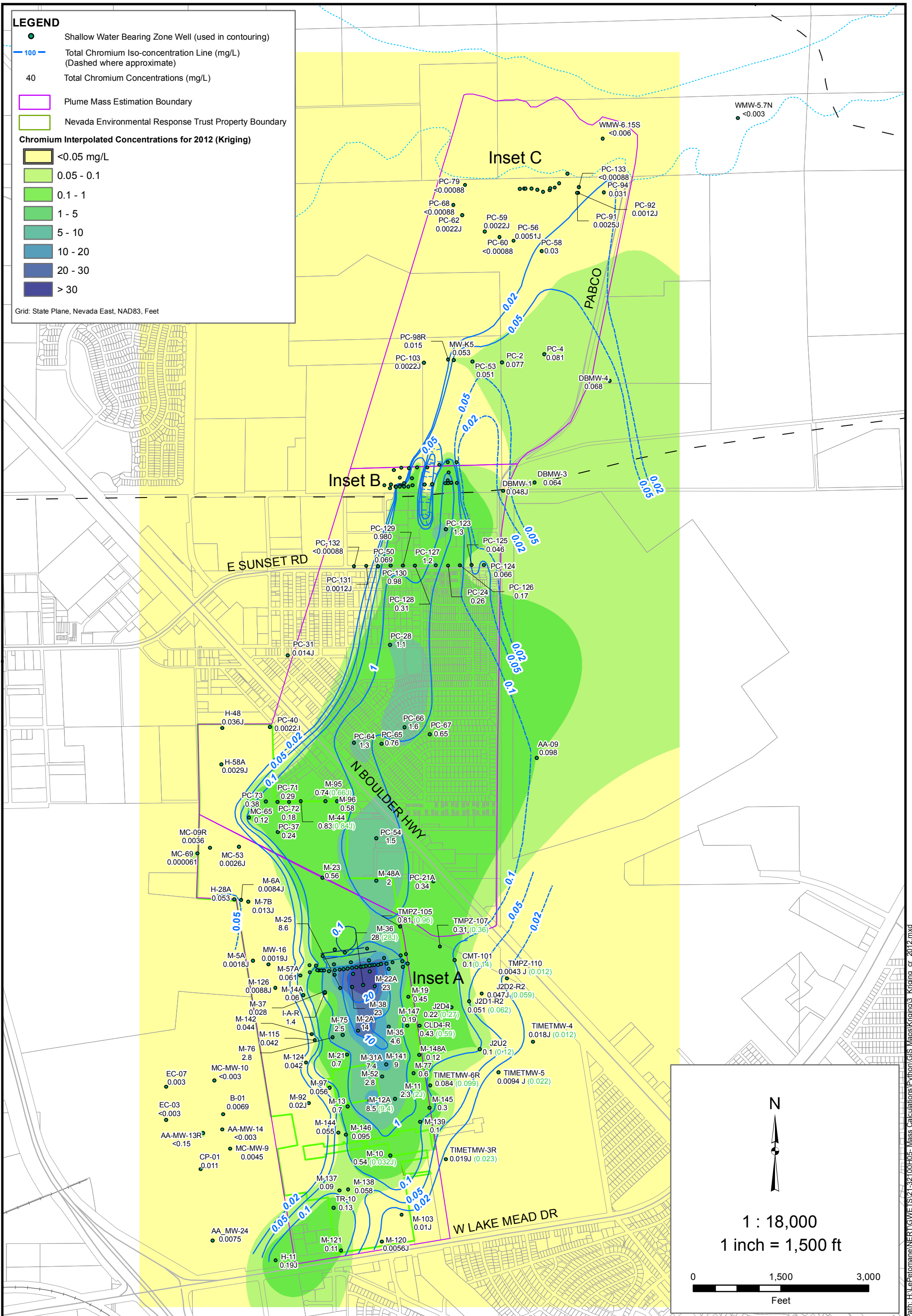
Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

Approved by:

Revised:



2200 Powell St., Suite 700, Emeryville, CA 94608

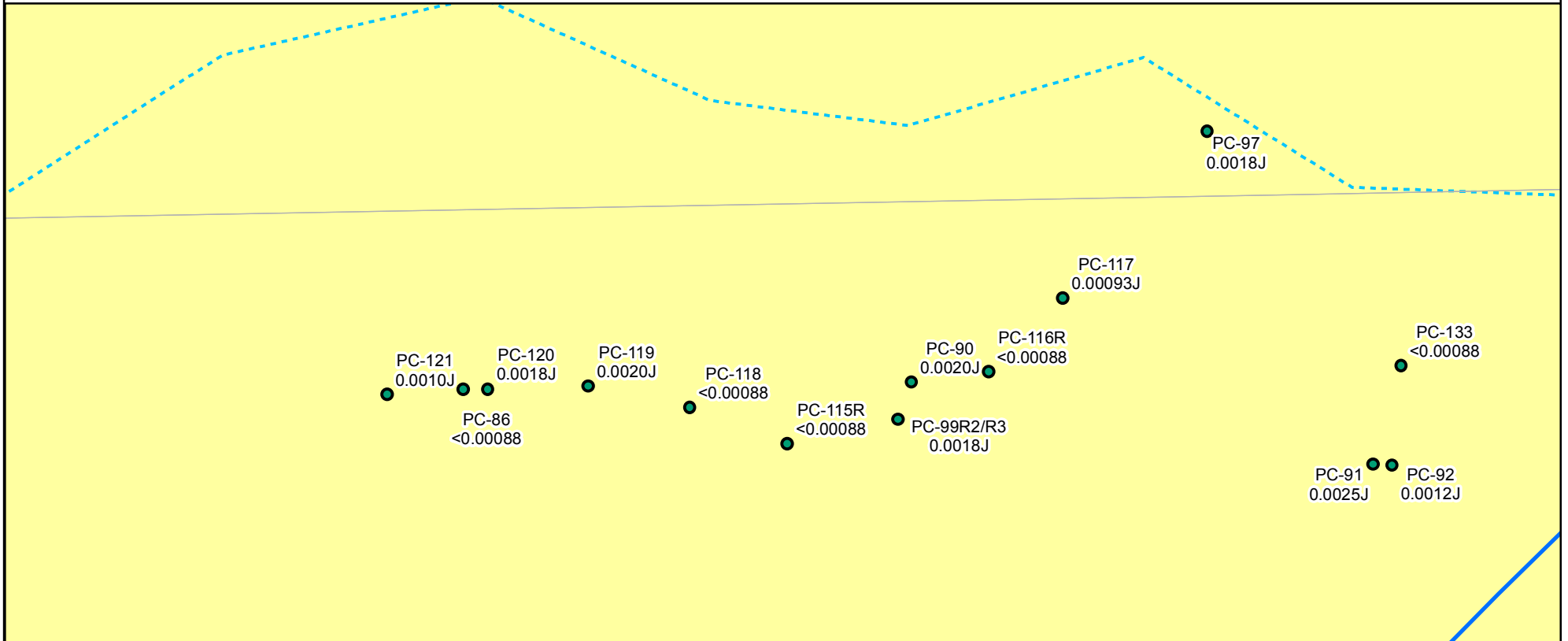
Kriging Interpolation of Groundwater Chromium (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

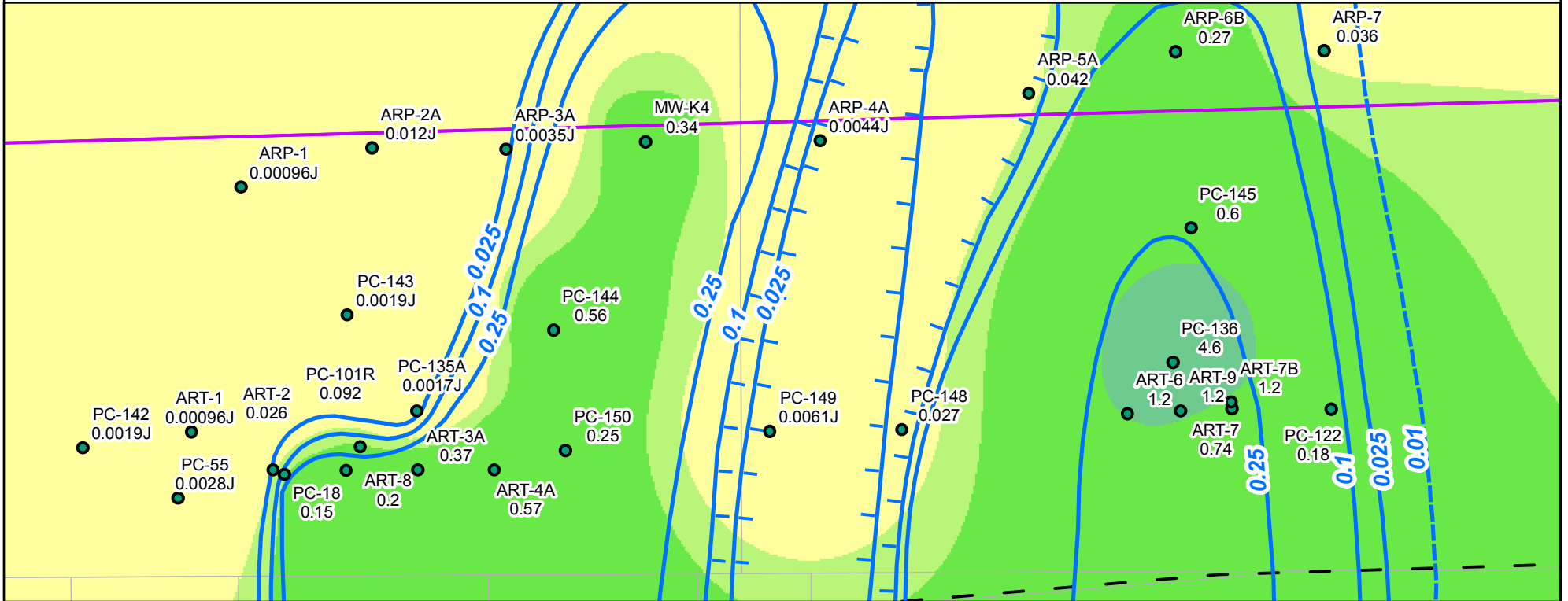
Figure
1-2a

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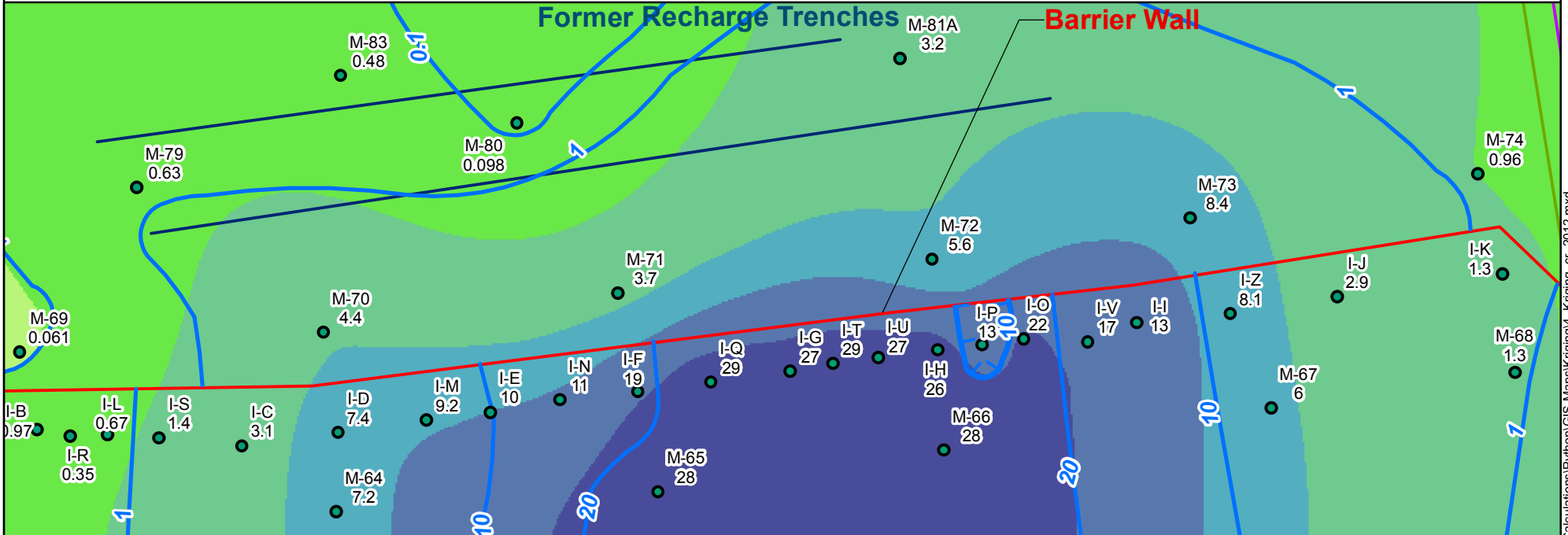
Inset C



Inset B



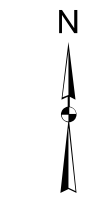
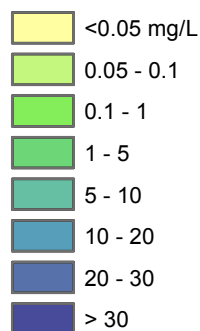
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LEGEND

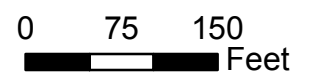
- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Perchlorate Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Total Chromium Concentration (mg/L)
- Plume Mass Estimation Boundary

Chromium Interpolated Concentrations for 2012 (Kriging)



1:1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



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Kriging Interpolation of Groundwater Chromium (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

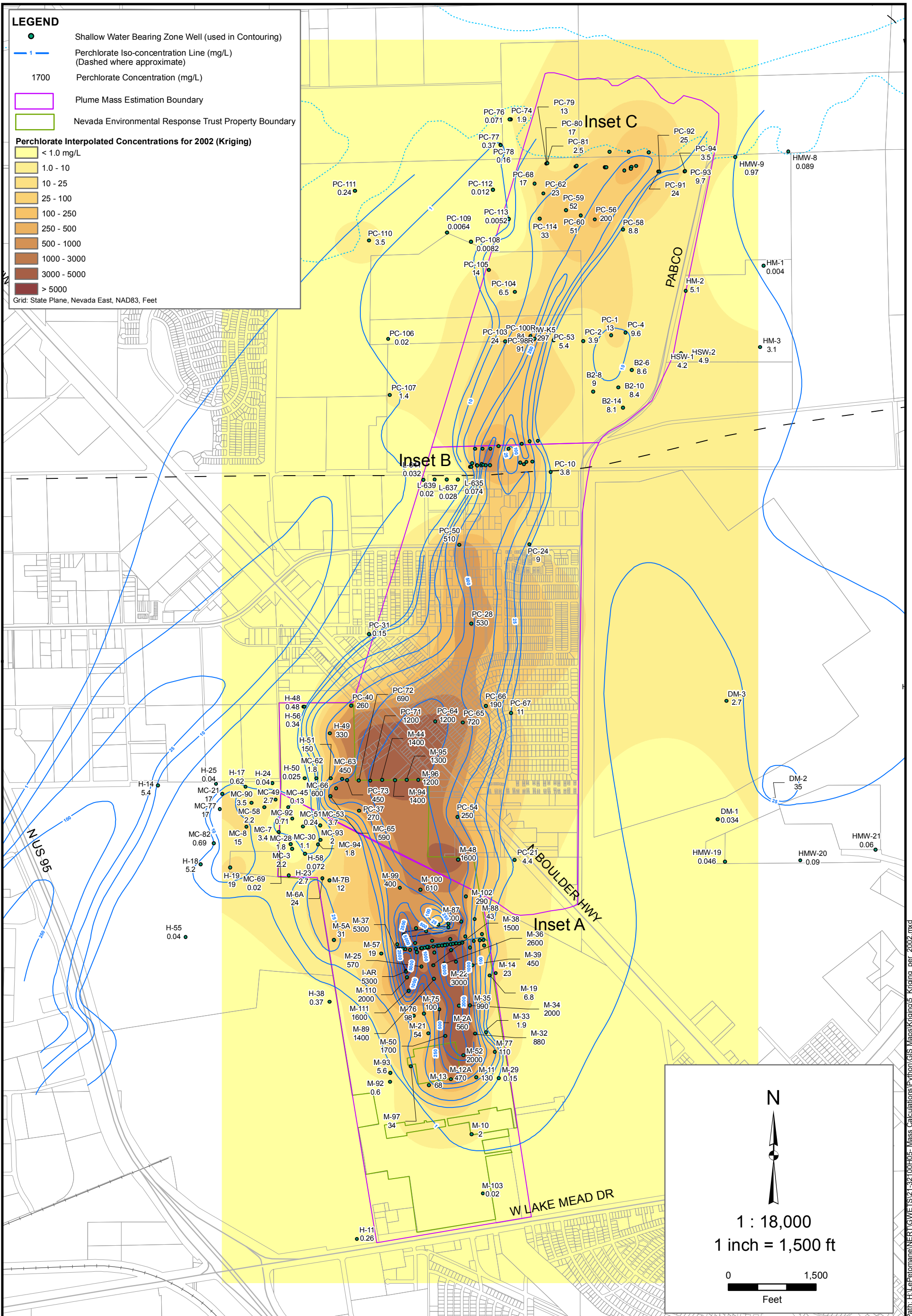
Contract Number: 21-32100H05

Approved by:

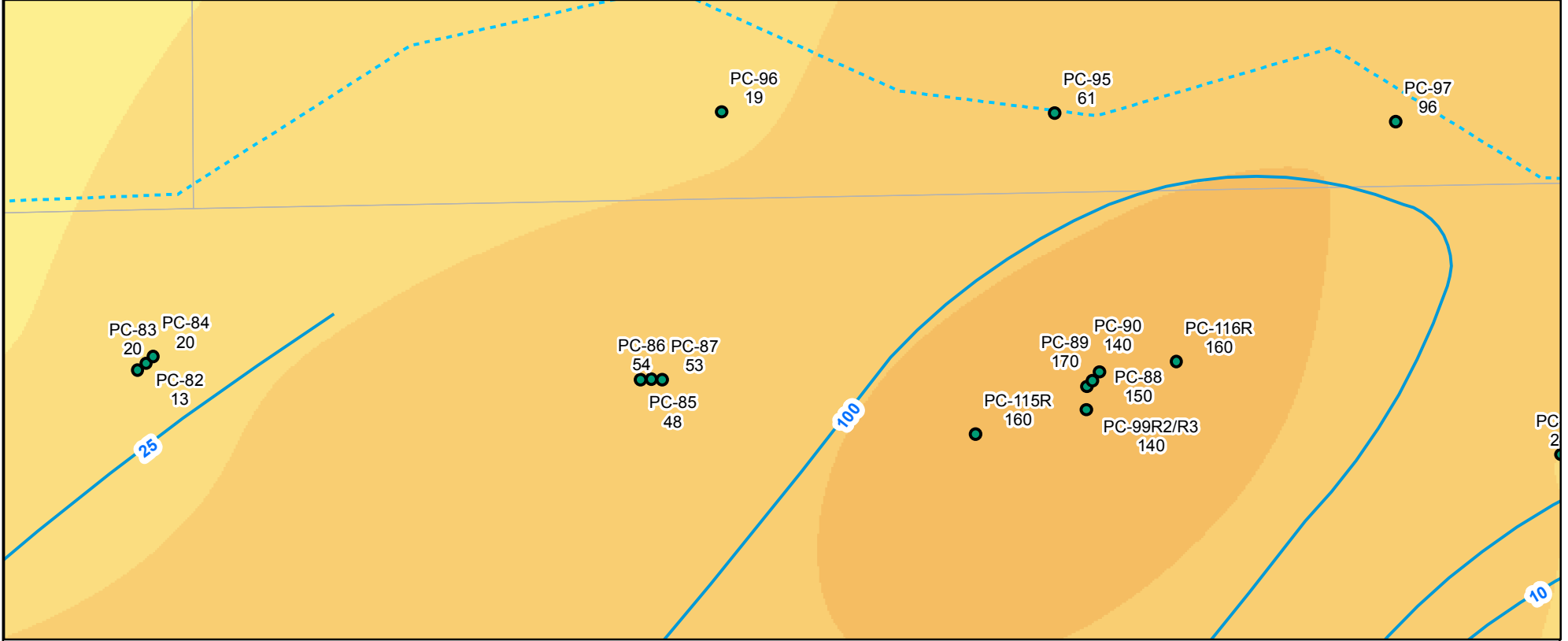
Revised:

Figure
1-2b

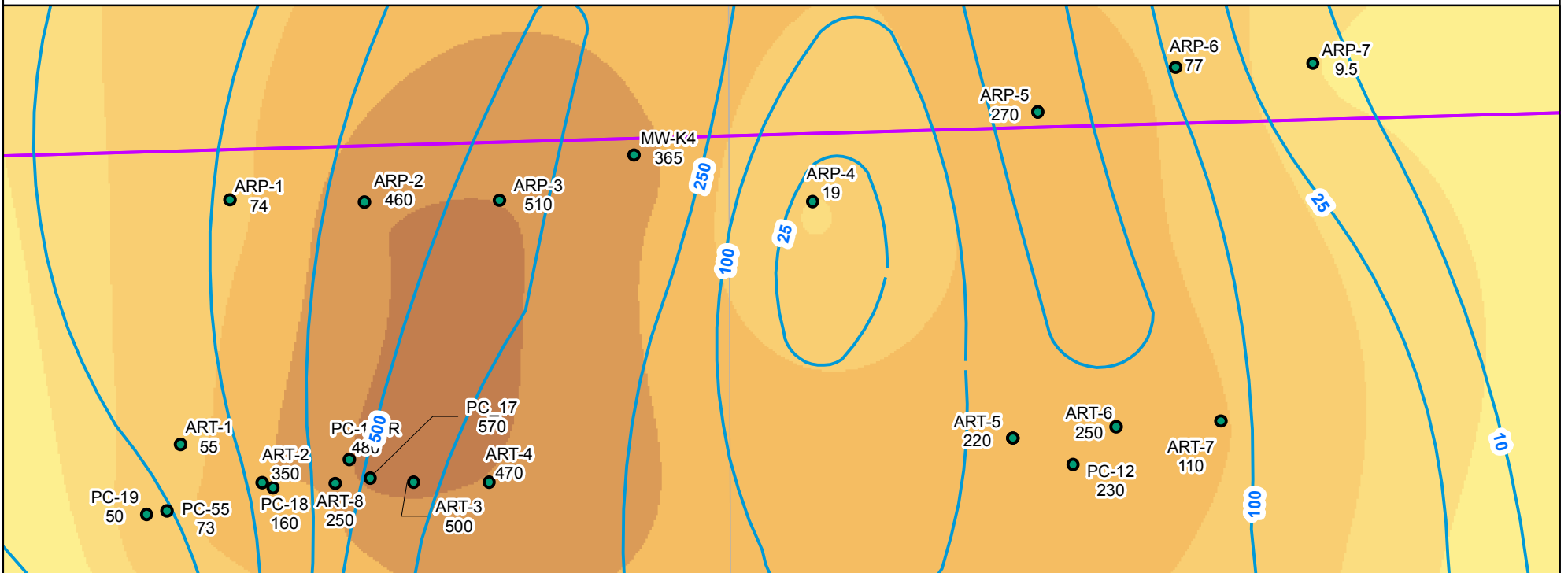
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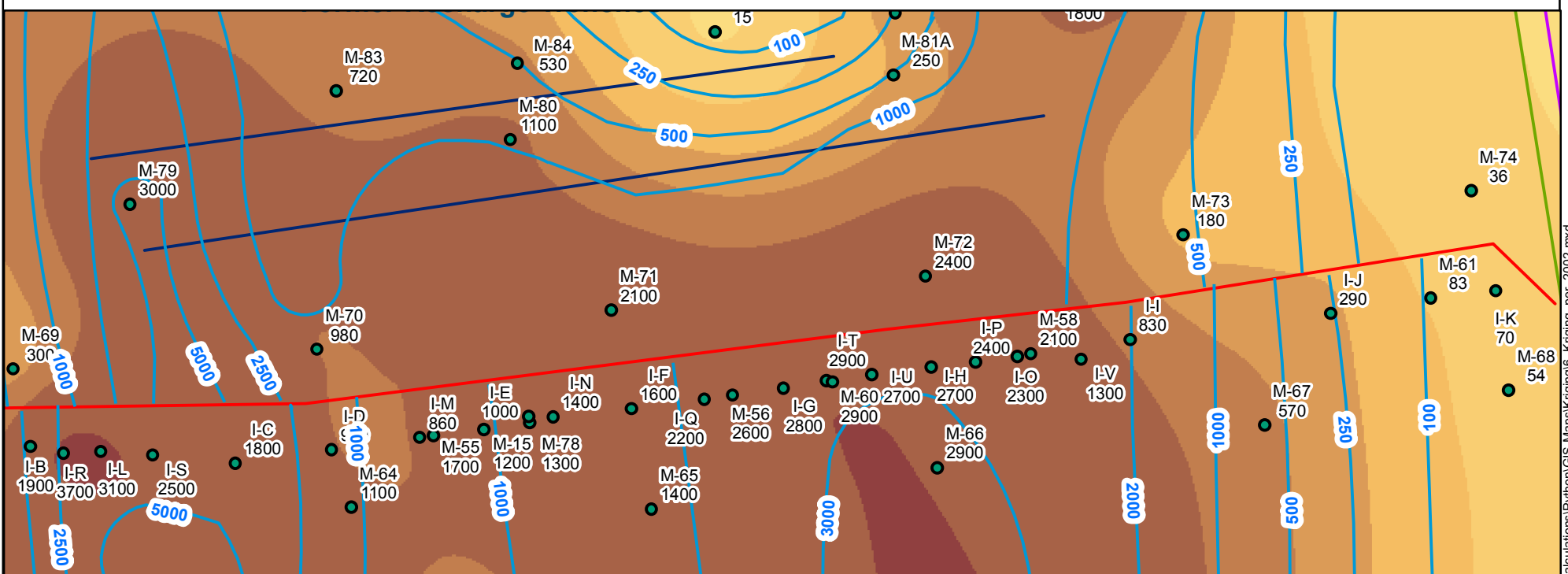
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Inset B



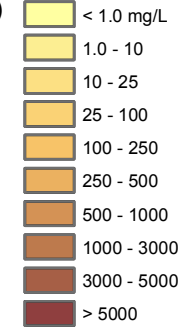
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchloration Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Perchloration Concentration (mg/L)
- Plume Mass Estimation Boundary

Perchloration Interpolated Concentrations for 2002 (Kriging)

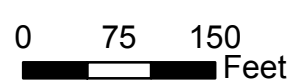


N



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet

Kriging Interpolation of Groundwater Perchloration (2002)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
1-3b



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Drafter: EA

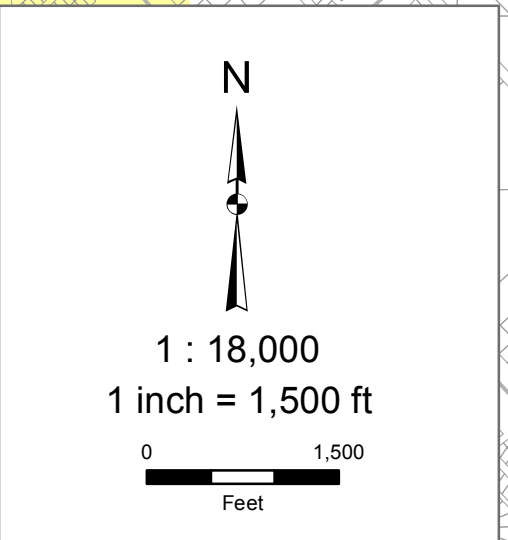
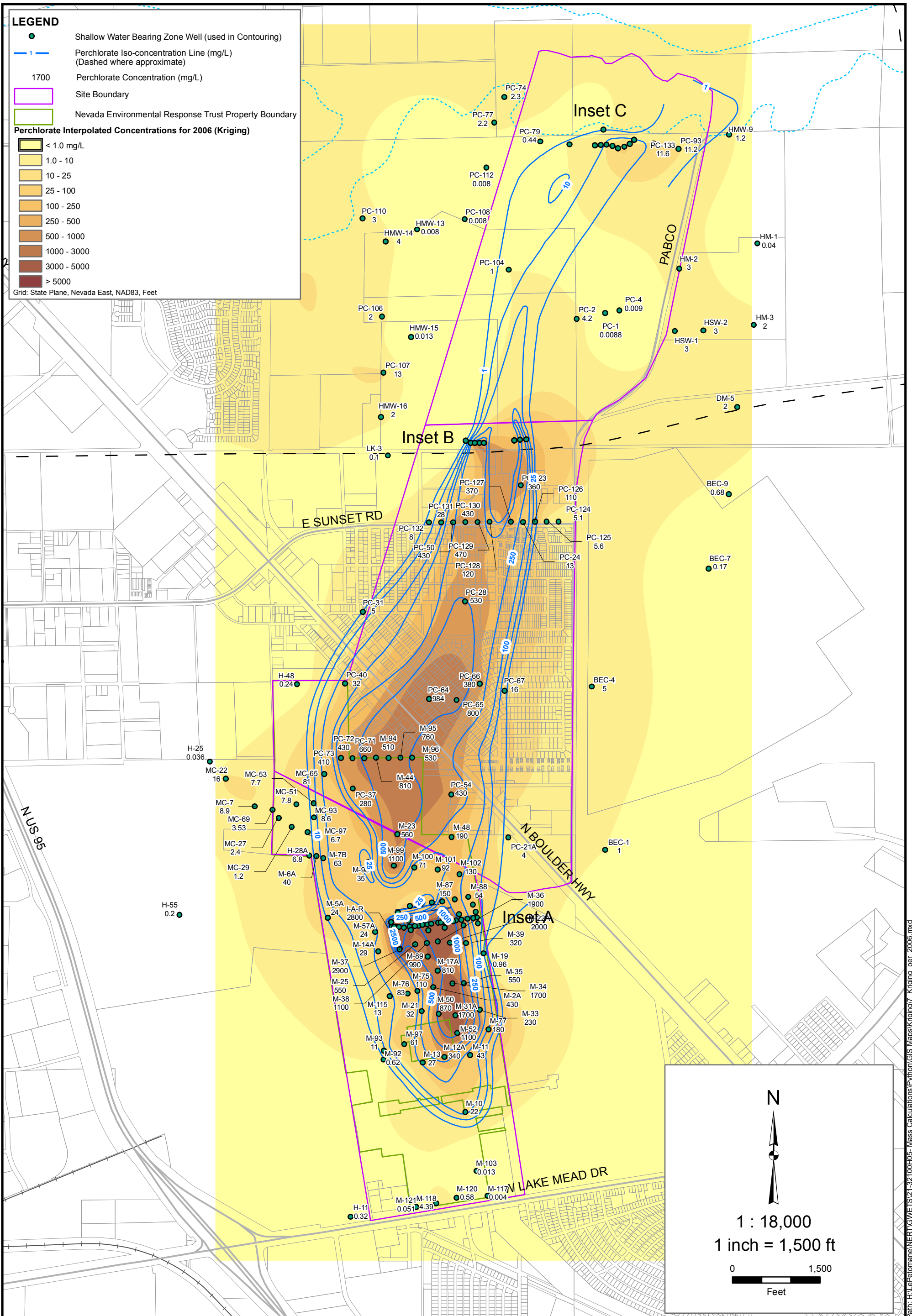
Date: 8/29/2013

Contract Number: 21-32100H05

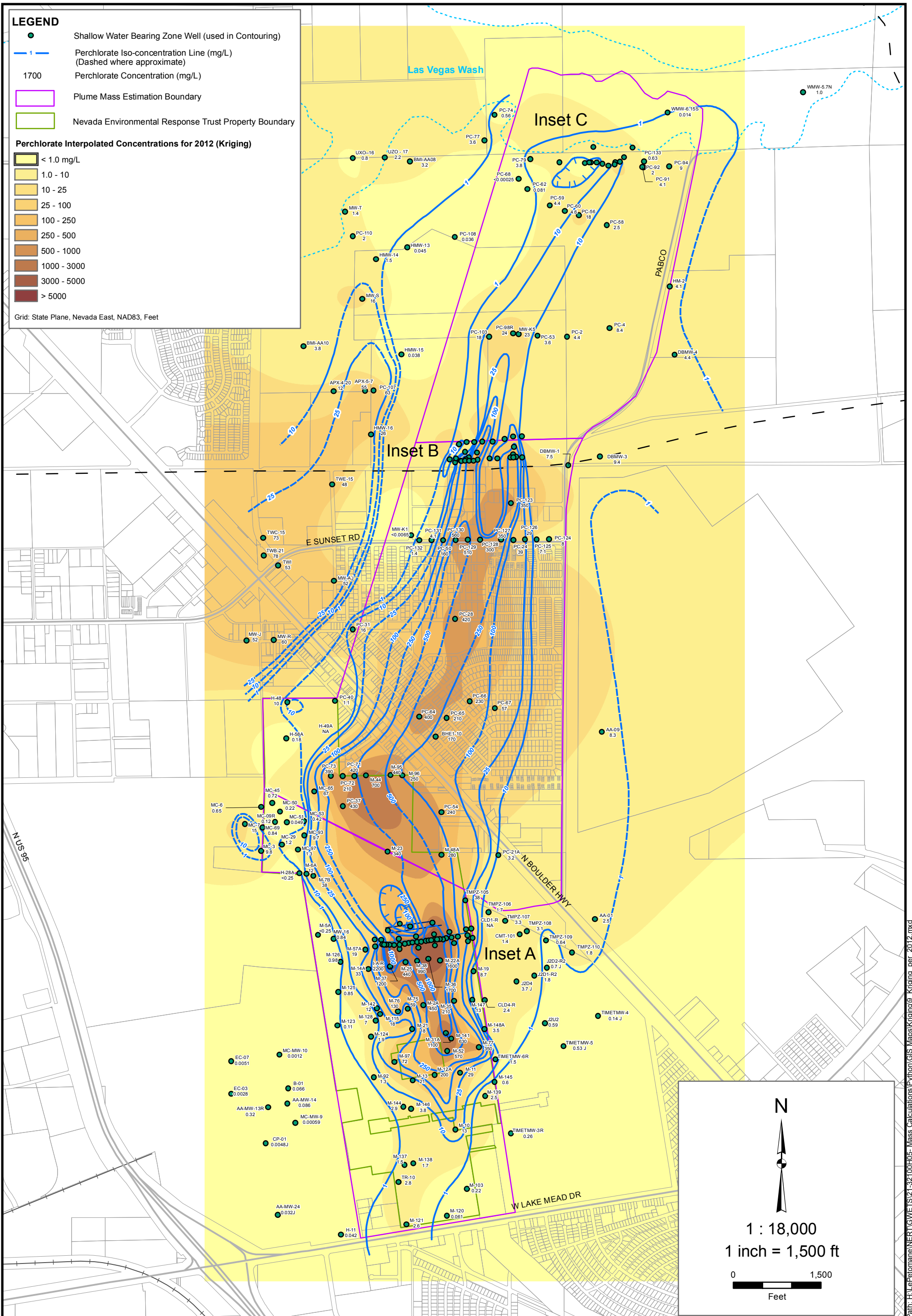
Approved by:

Revised:

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Path: H:\Perchlorate\NERT\GIS\21-32100H05 - Mass Calculations\Python\GIS Maps\Kriging17_Kriging_per_2006.mxd



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- Plume Mass Estimation Boundary
- Nevada Environmental Response Trust Property Boundary

Perchlorate Interpolated Concentrations for 2012 (Kriging)

< 1.0 mg/L
1.0 - 10
10 - 25
25 - 100
100 - 250
250 - 500
500 - 1000
1000 - 3000
3000 - 5000
> 5000

Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 18,000
1 inch = 1,500 ft

0 1,500
Feet

Kriging Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
1-5a

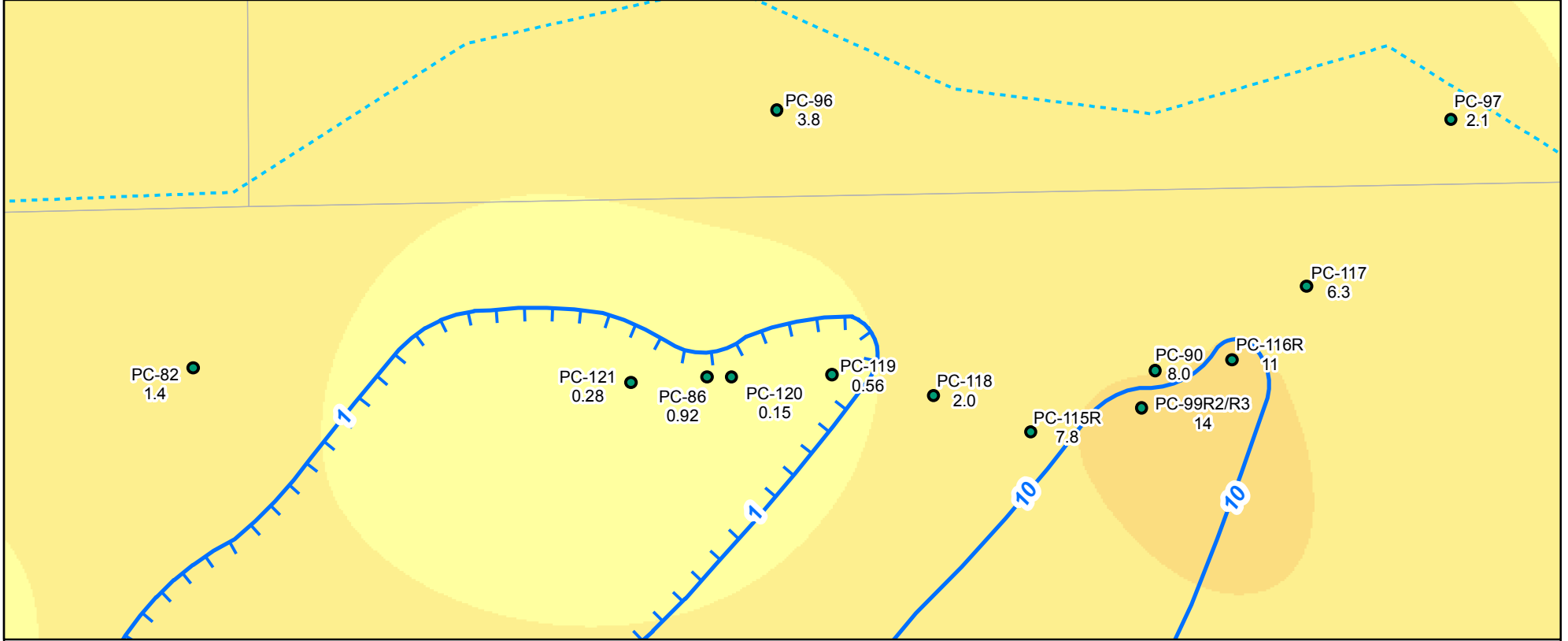


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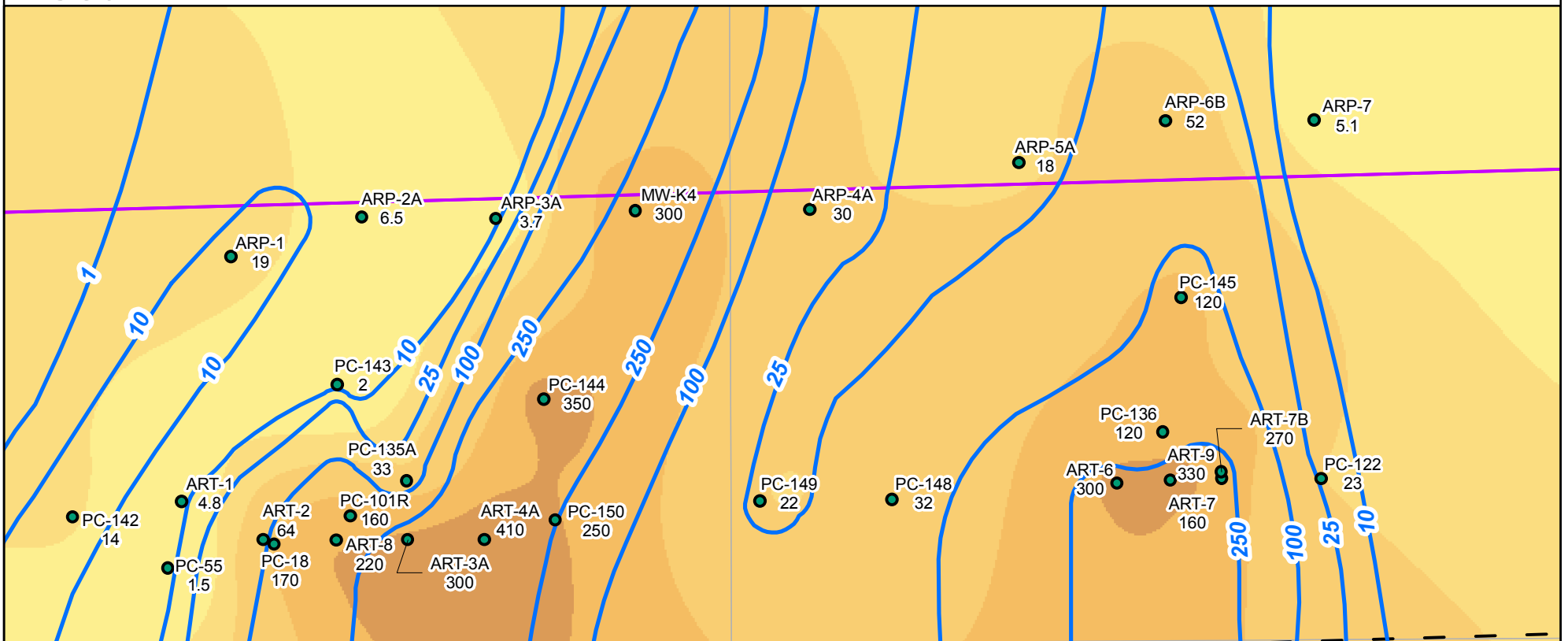
Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

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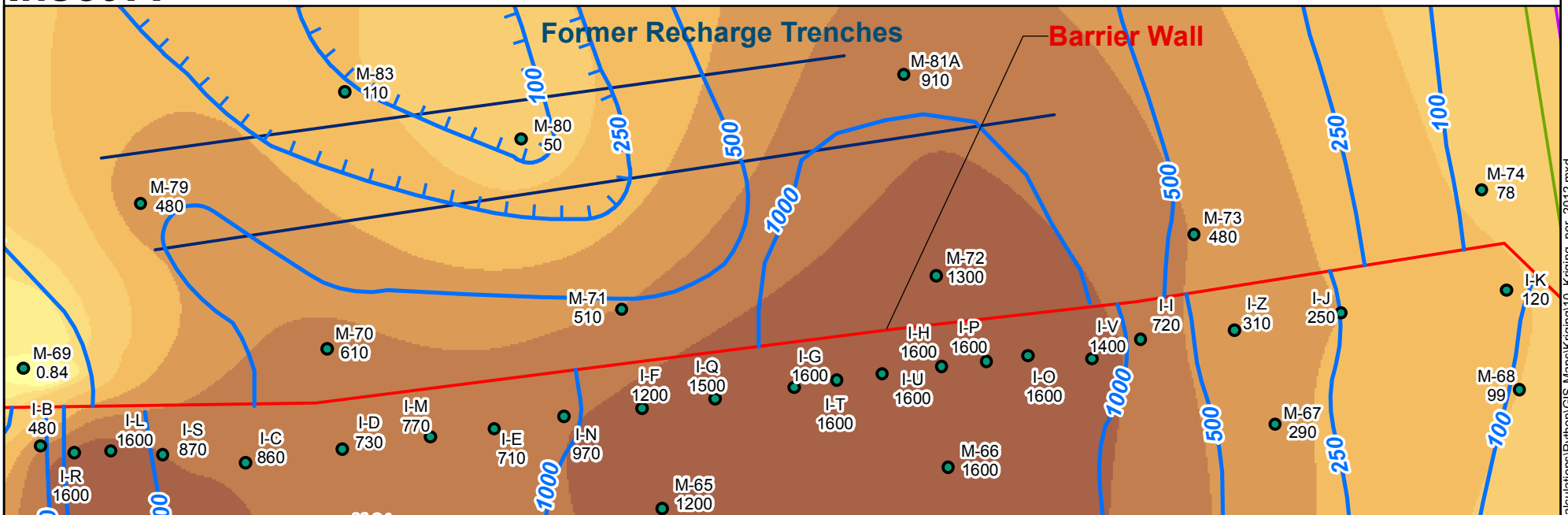
Inset C



Inset B



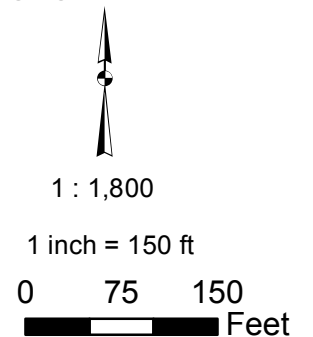
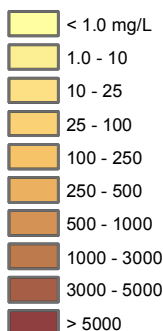
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- ▭ Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2012 (Kriging) N



Grid: State Plane, Nevada East, NAD83, Feet



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Kriging Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

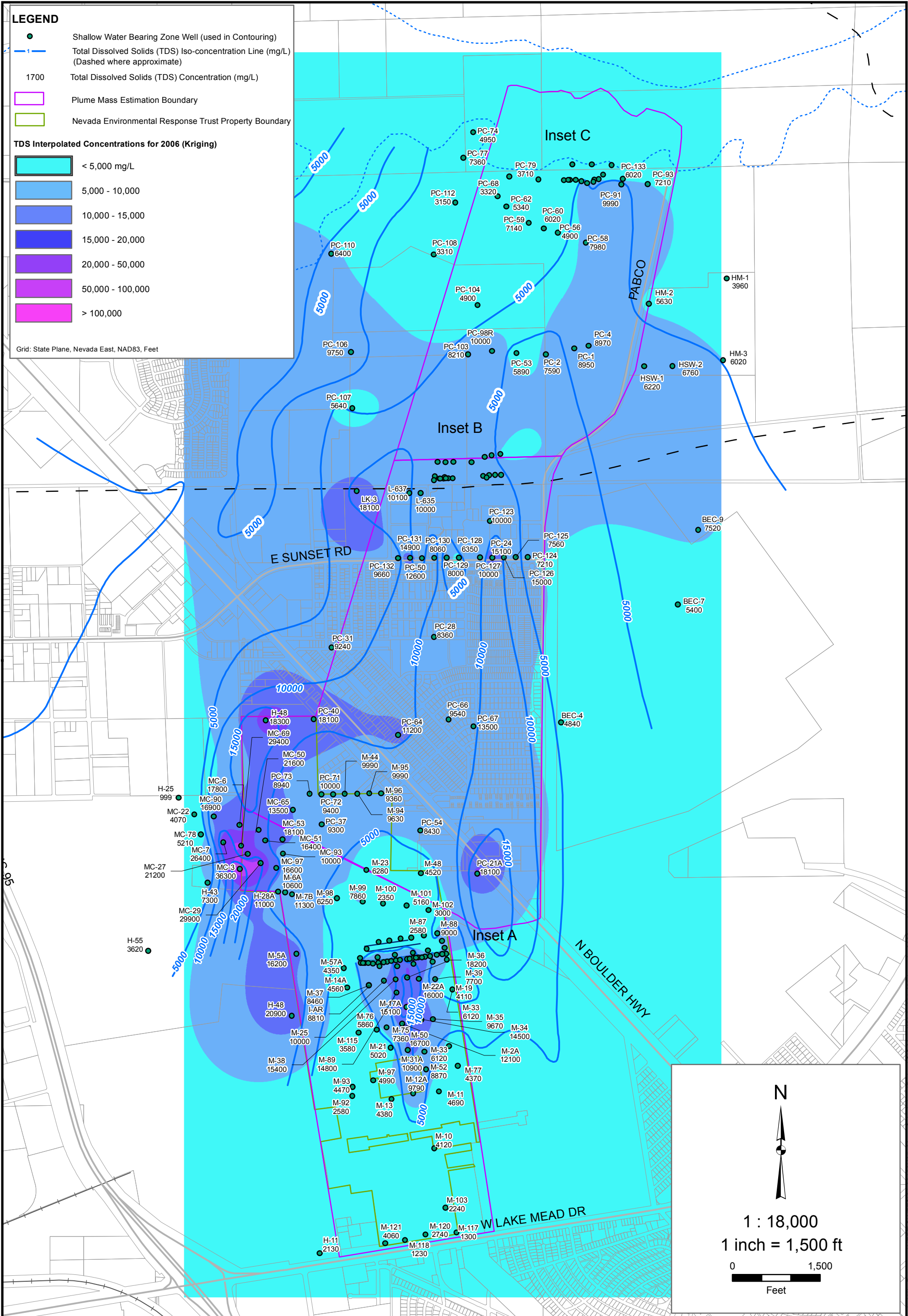
Contract Number: 21-32100H05

Approved by:

Revised:

Figure
1-5b

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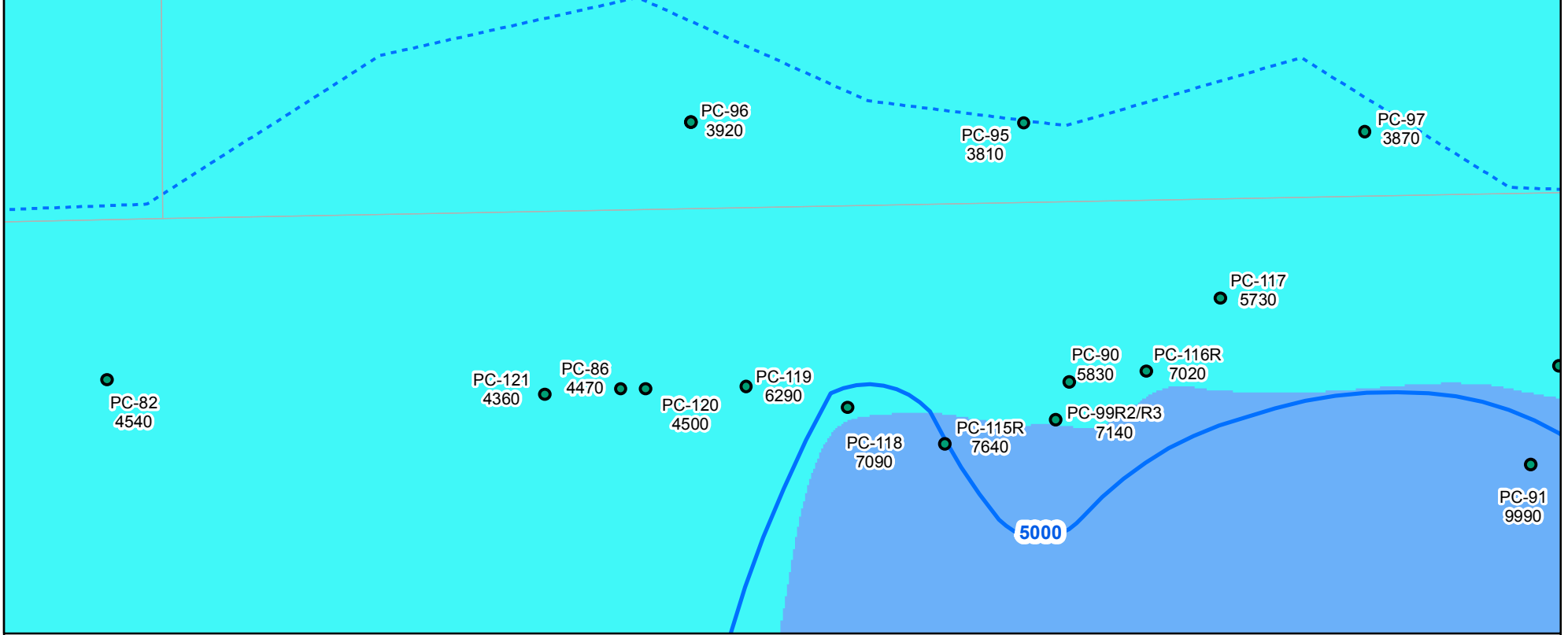
2200 Powell St., Suite 700, Emeryville, CA 94608

Kriging Interpolation of Groundwater TDS (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

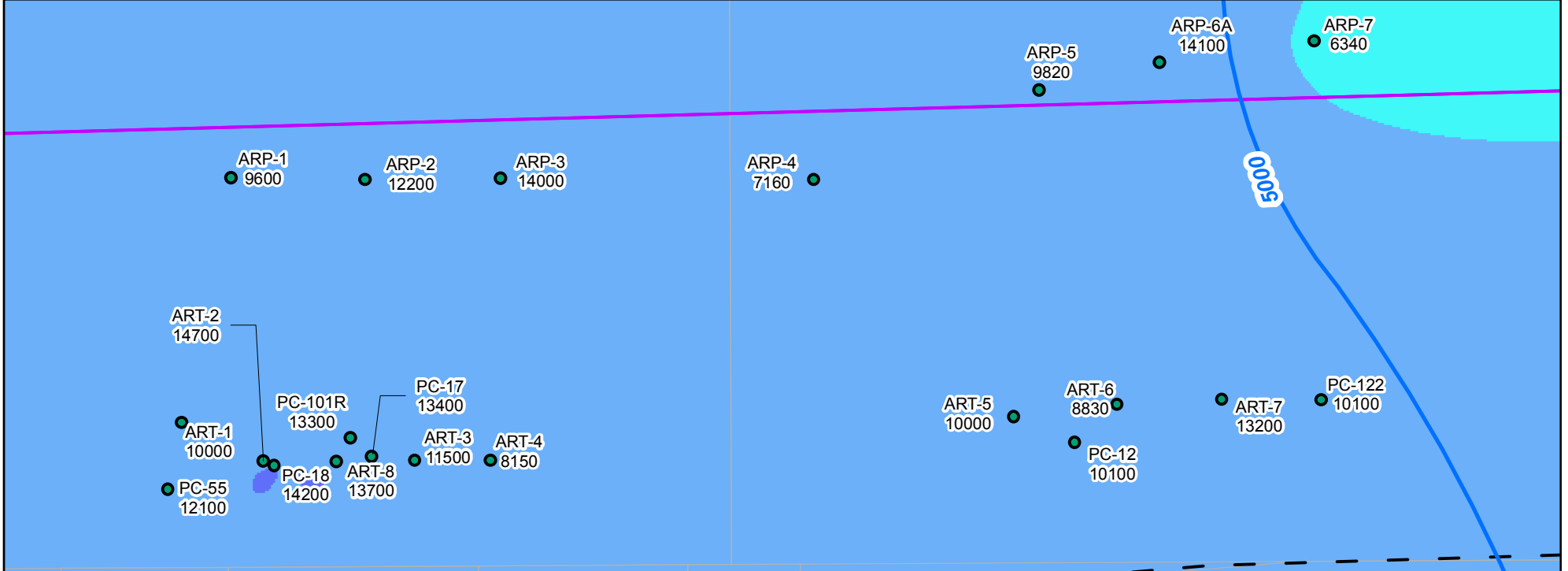
Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
1-6a

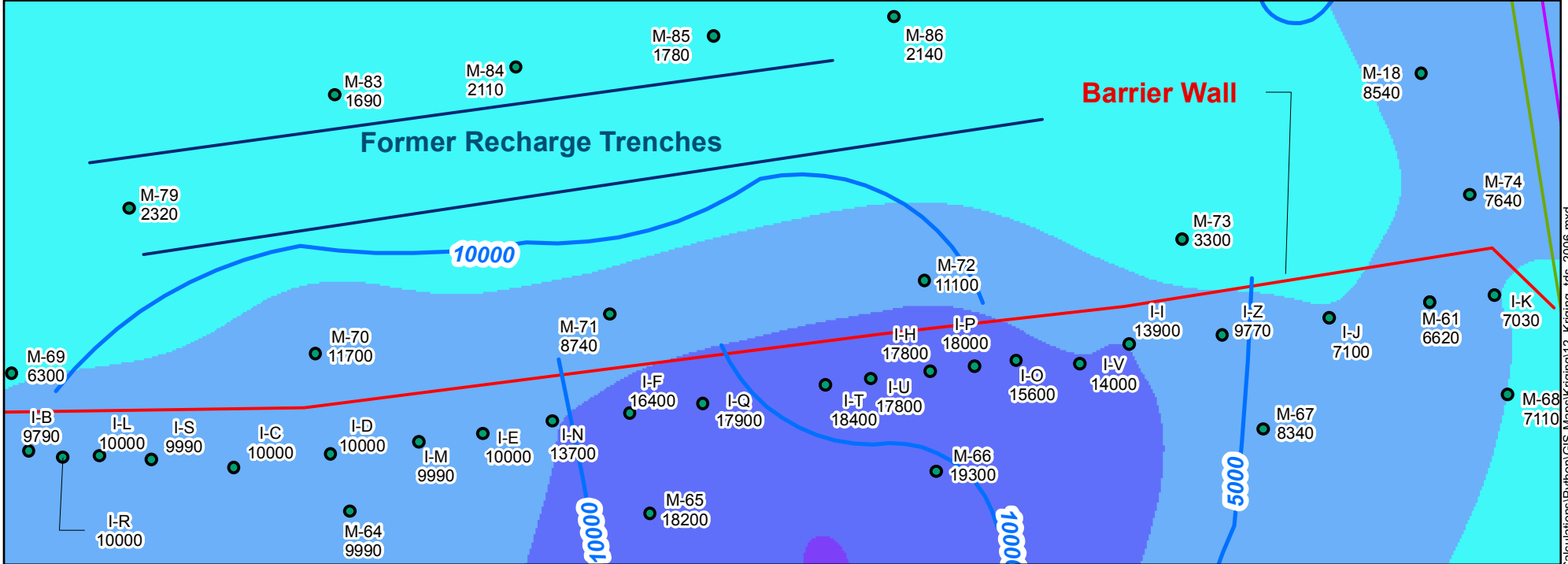
Inset C



Inset B



Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

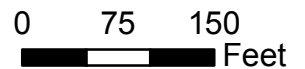
TDS Interpolated Concentrations for 2006 (Kriging)

- < 5,000 mg/L
- 5,000 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



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Kriging Interpolation of Groundwater TDS (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

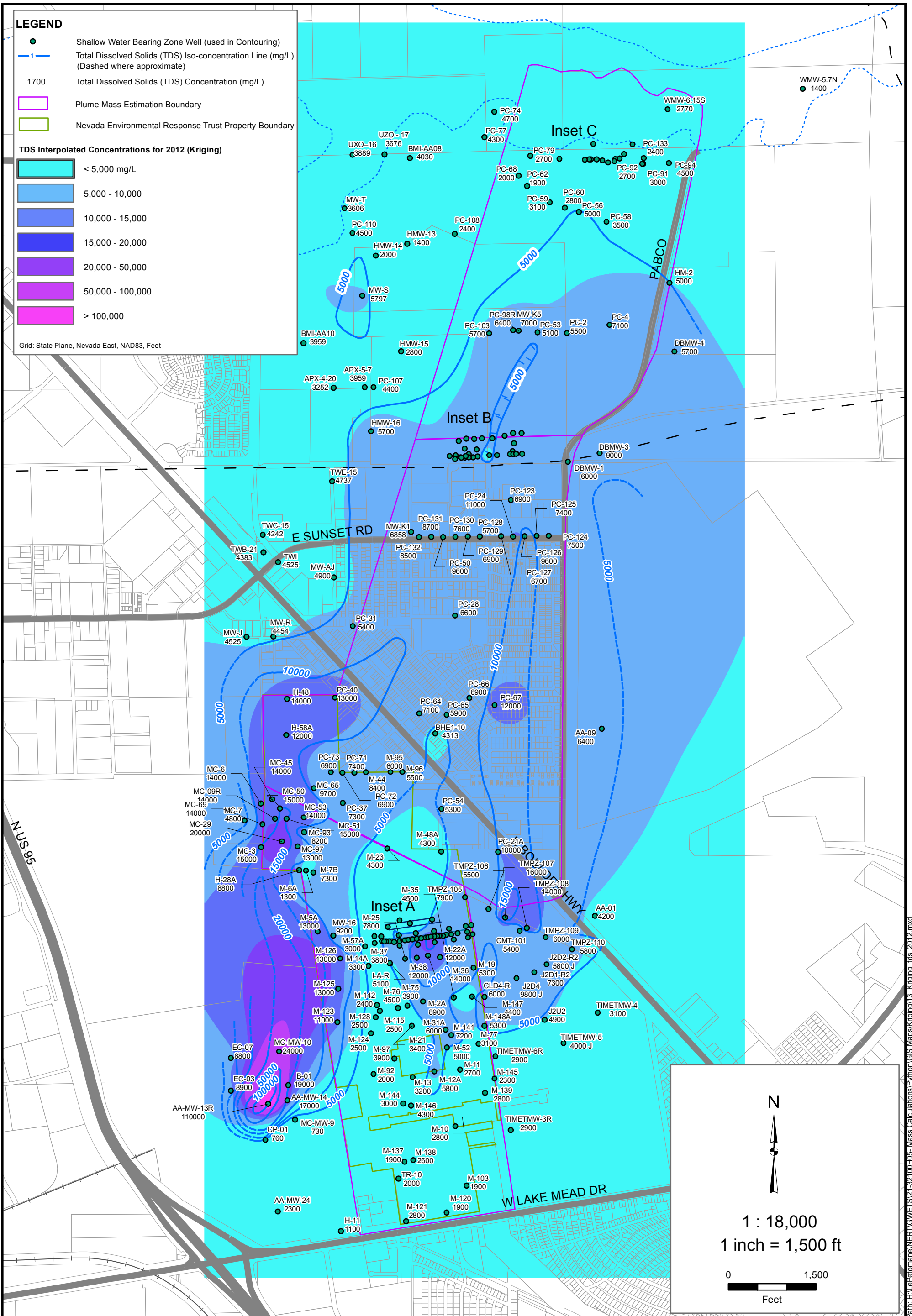
Contract Number: 21-32100H05

Approved by:

Revised:

Figure
1-6b

Path: H:\LePetomane\NERT\GWE\TS21-32100H05 - Mass Calculations\Python\GIS Maps\Kriging12_Kriging_tos_2006.mxd



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary
- Nevada Environmental Response Trust Property Boundary

TDS Interpolated Concentrations for 2012 (Kriging)

- < 5,000 mg/L
- 5,000 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

Grid: State Plane, Nevada East, NAD83, Feet

N

1 : 18,000
1 inch = 1,500 ft

0 1,500
Feet

Kriging Interpolation of Groundwater TDS (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
1-7a



2200 Powell St., Suite 700, Emeryville, CA 94608

Drafter: EA

Date: 8/29/2013

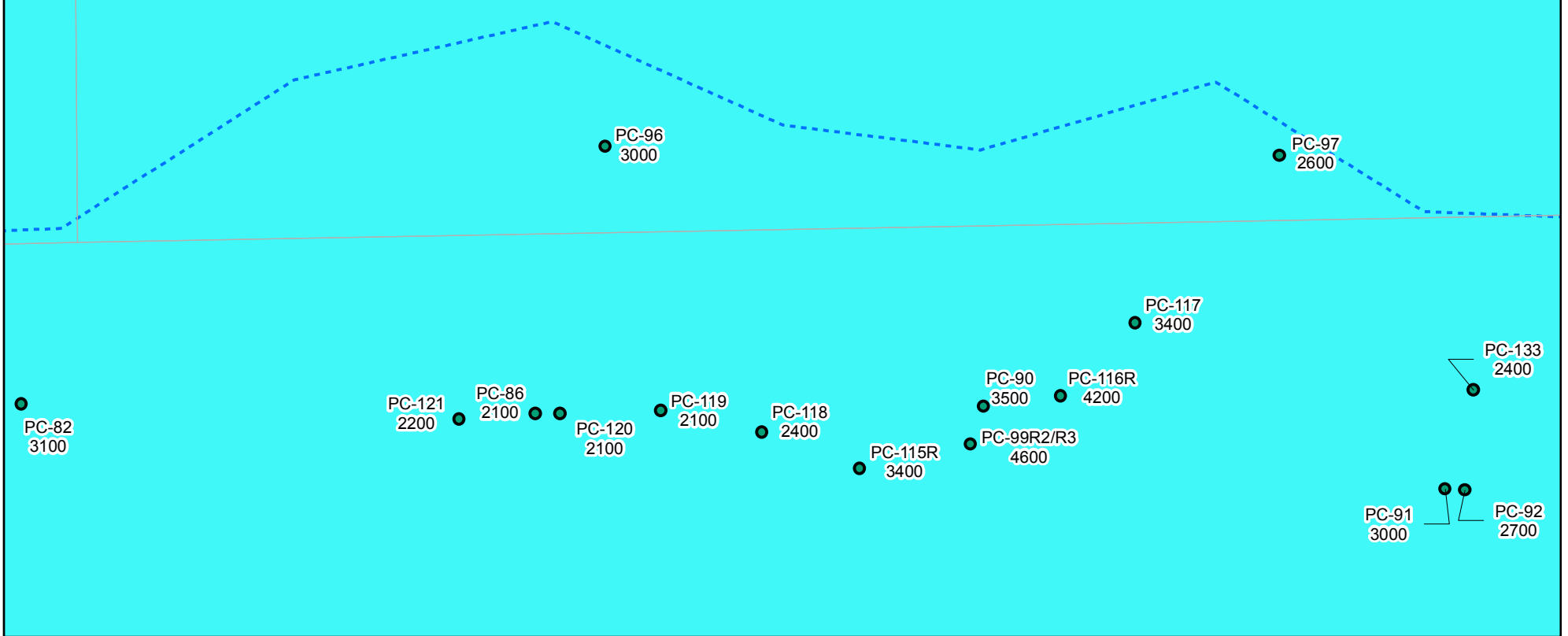
Contract Number: 21-32100H05

Approved by:

Revised:

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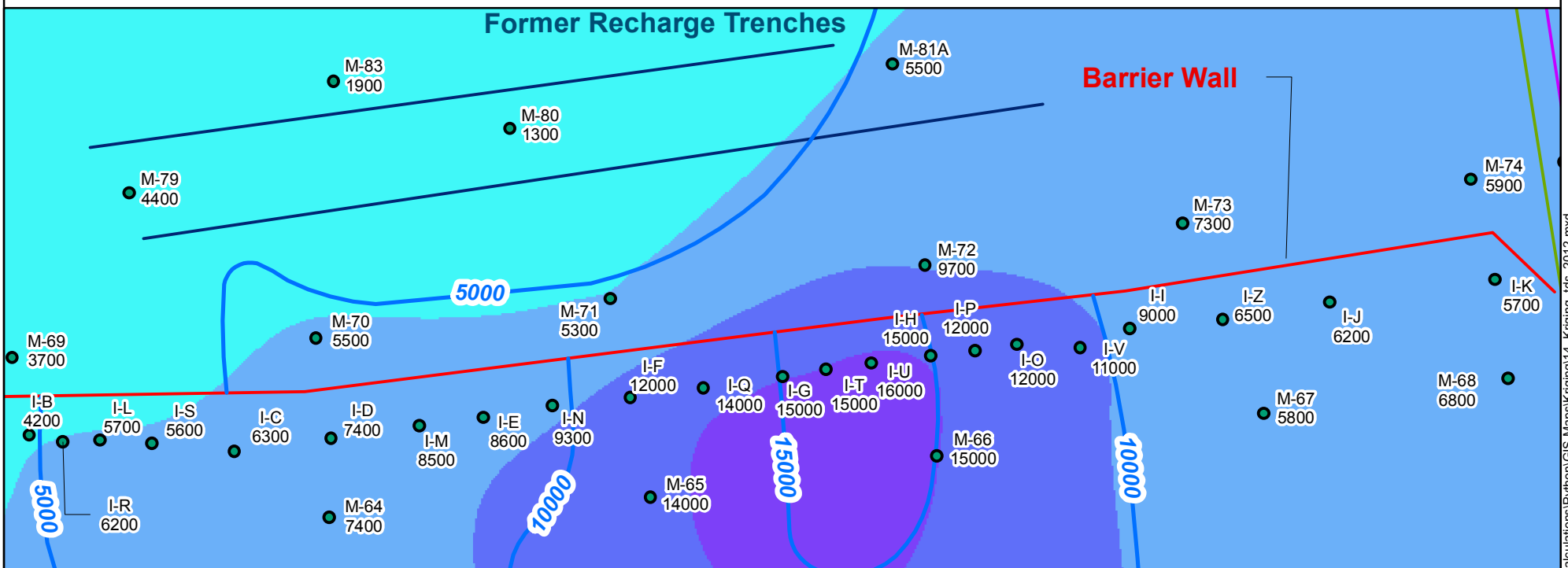
Inset C



Inset B



Inset A

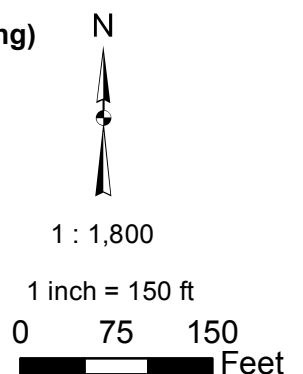


LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

TDS Interpolated Concentrations for 2012 (Kriging)

- < 5,000 mg/L
- 5,000 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Kriging Interpolation of Groundwater TDS (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

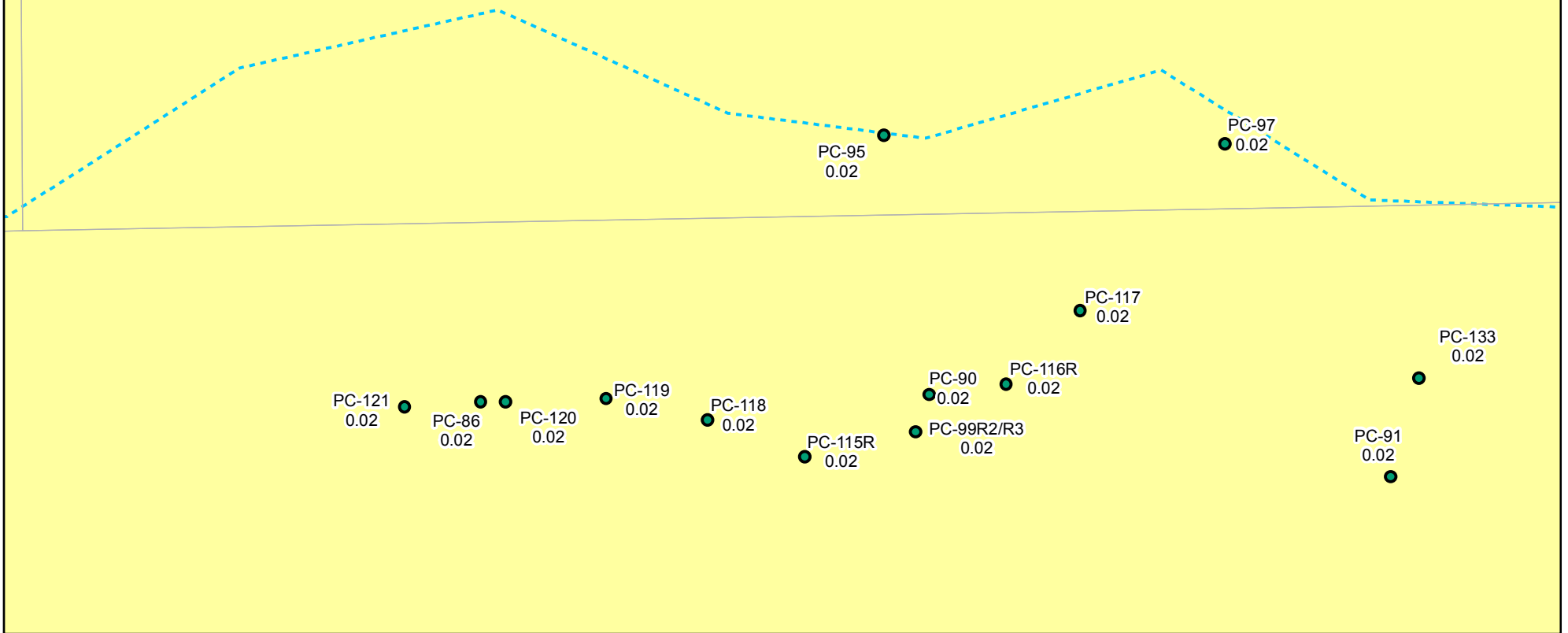
Approved by:

Revised:

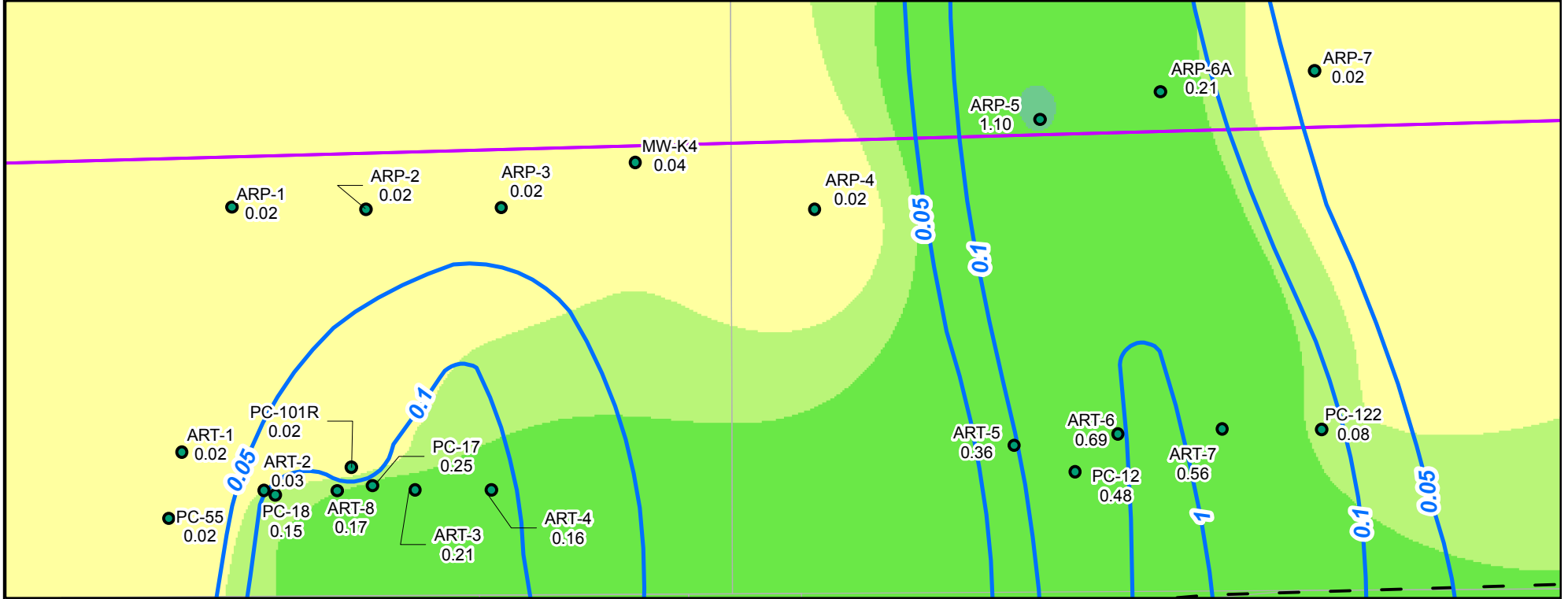
Figure
1-7b

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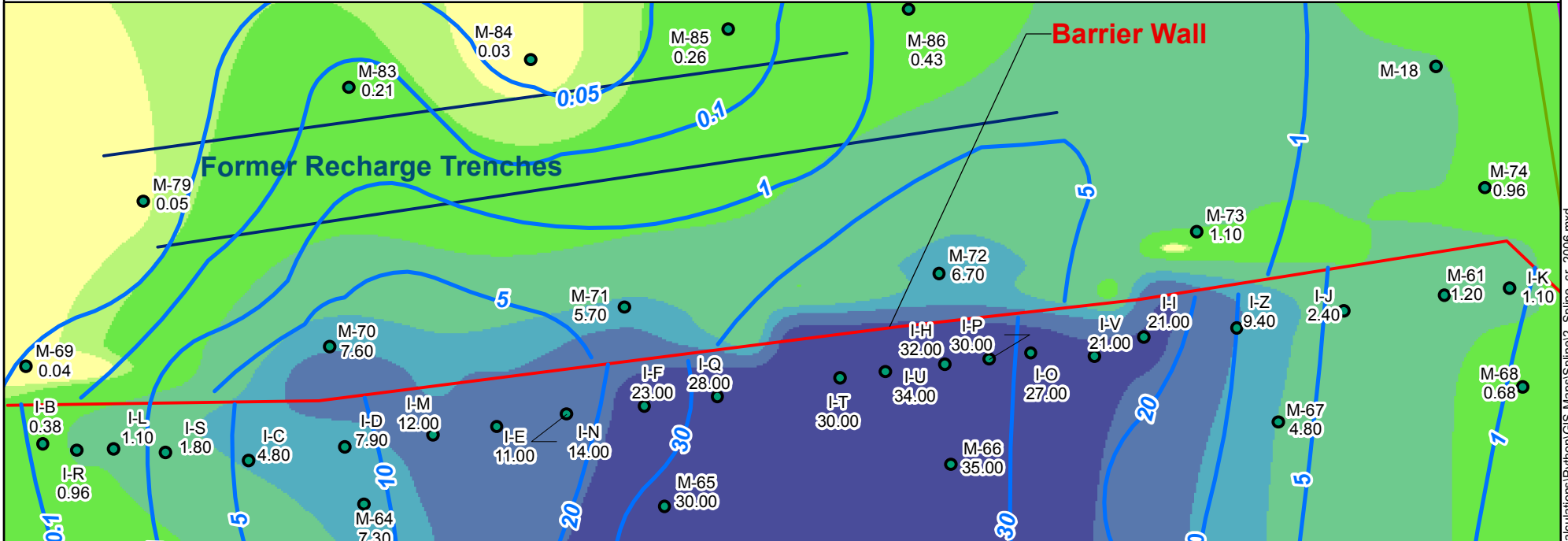
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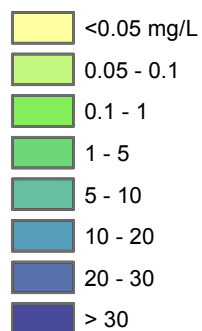
Inset A



LEGEND

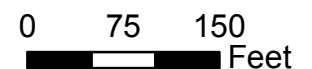
- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Total Chromium Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Total Chromium Concentration (mg/L)
- Plume Mass Estimation Boundary

Chromium Interpolated Concentrations for 2006 (Spline)



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater Chromium (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

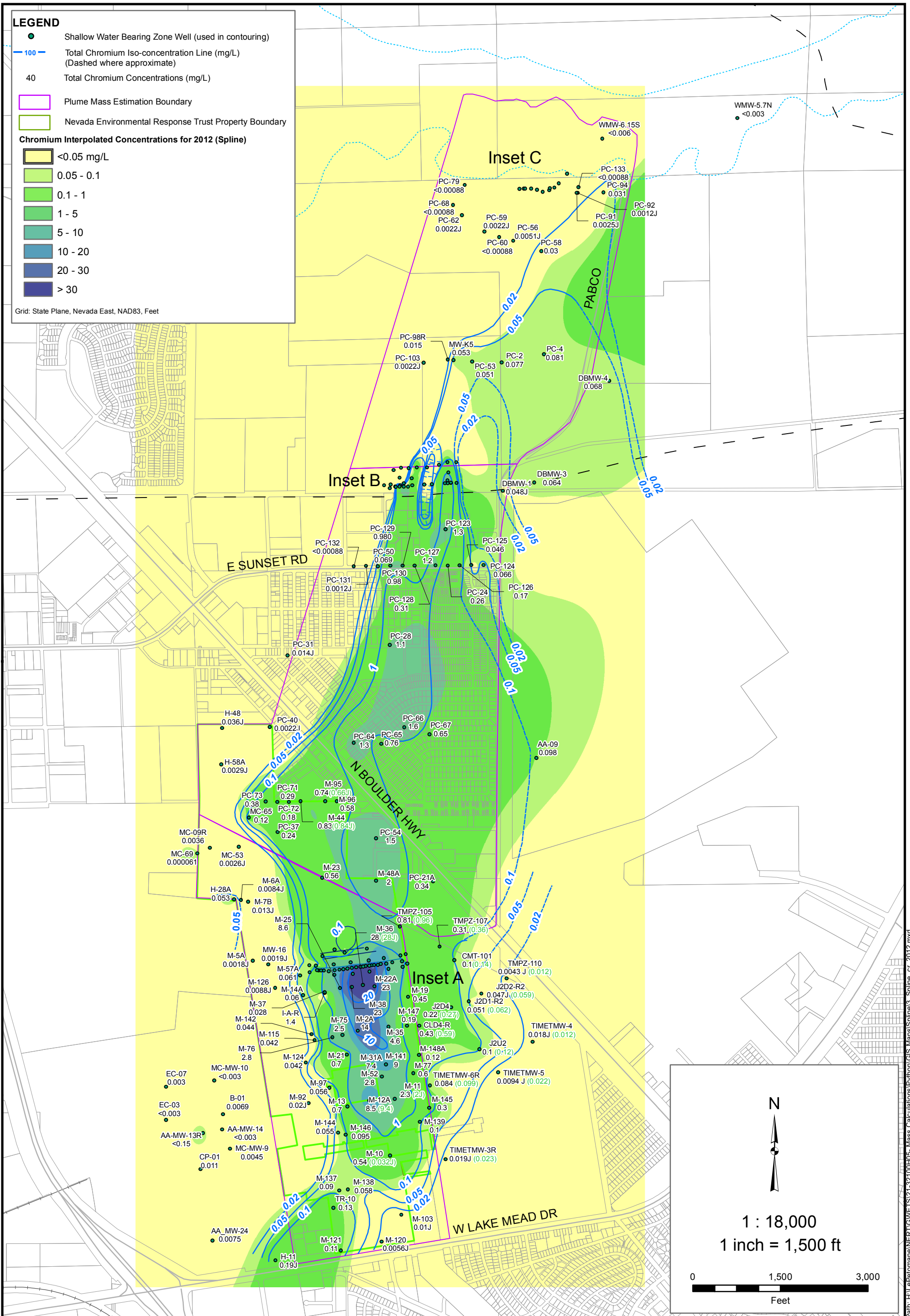
Date: 8/29/2013

Contract Number: 21-32100H05

Approved by:

Revised:

Figure
2-1b



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2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater Chromium (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

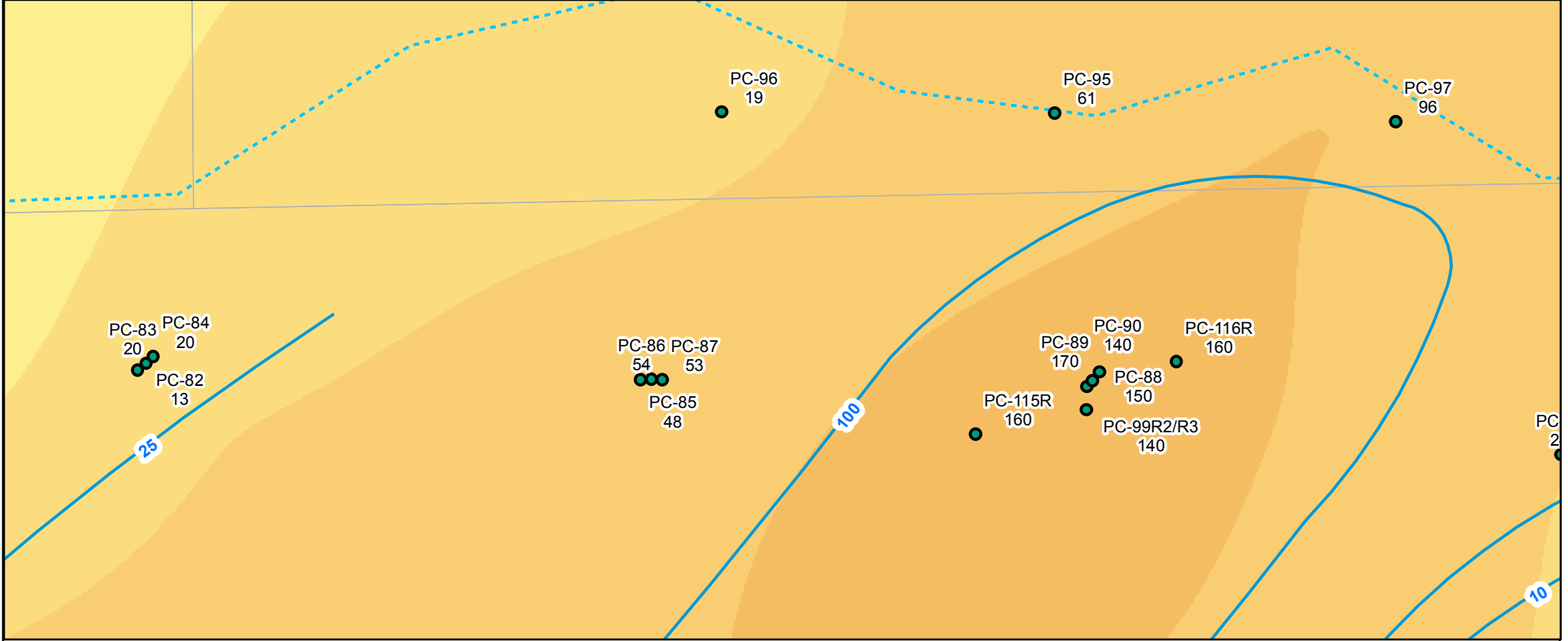
Contract Number: 21-32100H05

Approved by:

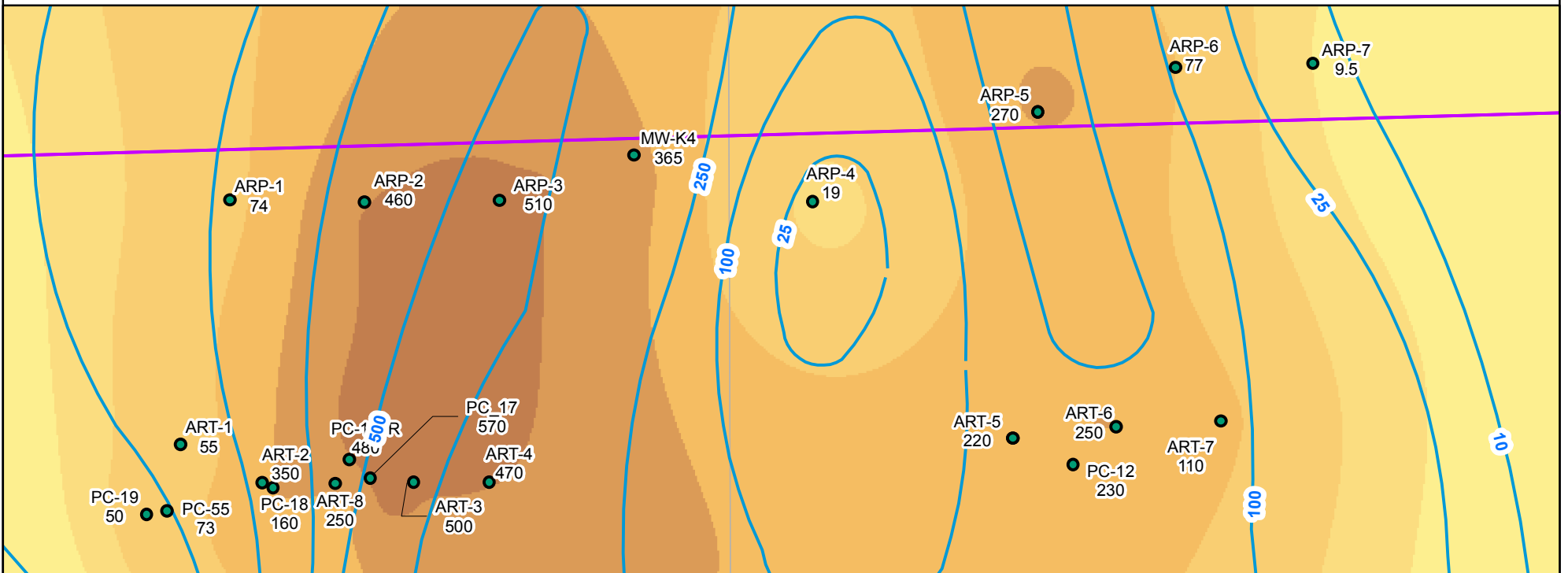
Revised:

Figure
2-2a

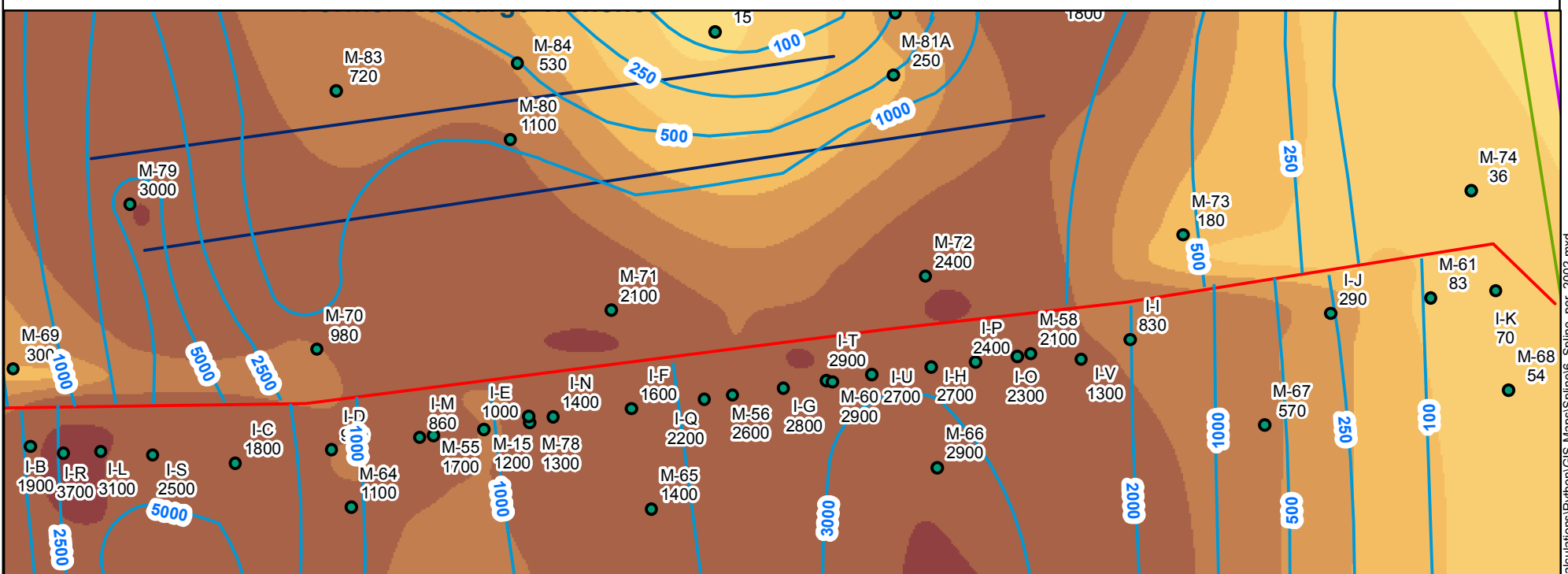
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Inset B



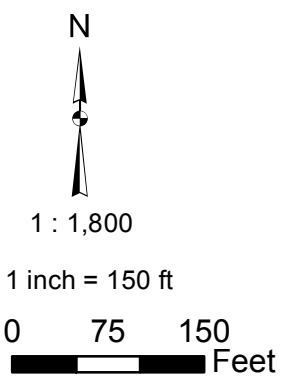
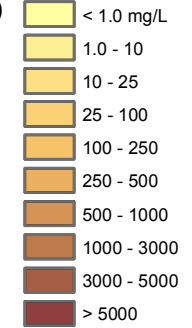
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchlorate Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2002 (Spline)



Grid: State Plane, Nevada East, NAD83, Feet

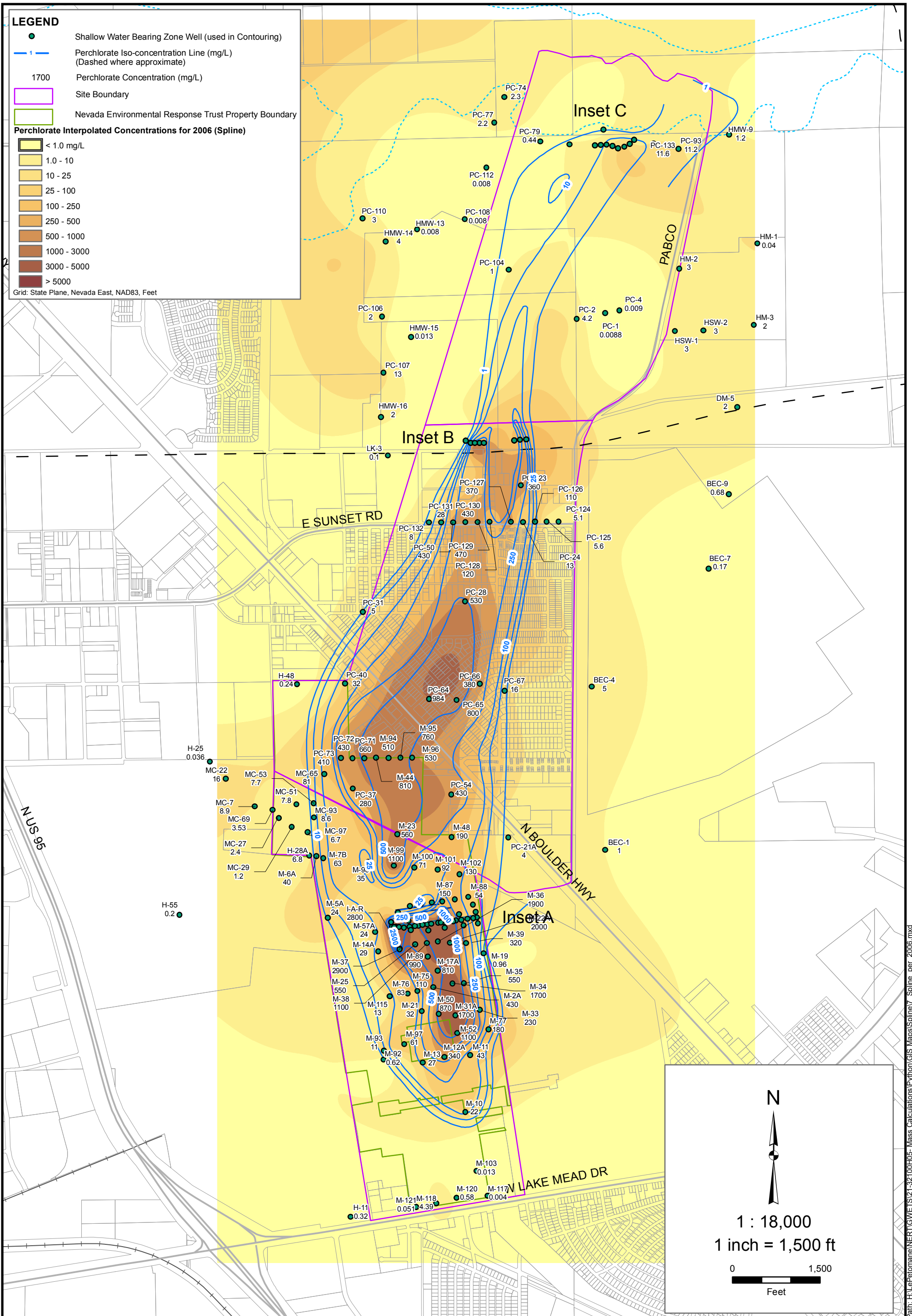
Spline Interpolation of Groundwater Perchlorate (2002)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
2-3b

2200 Powell St., Suite 700, Emeryville, CA 94608

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Path: H:\LePetomane\NERT\GWS\21-32100H05 - Mass Calculations\Python\GIS Maps\Spline6_Spline_per_2002.mxd



Path: H:\Perfomance\NERT\GIS\21-32100H05 - Mass Calculations\Python\GIS Maps\Spline7_Spline_per_2006.mxd

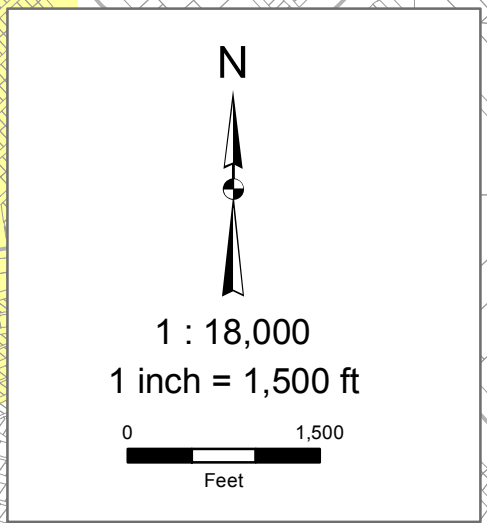
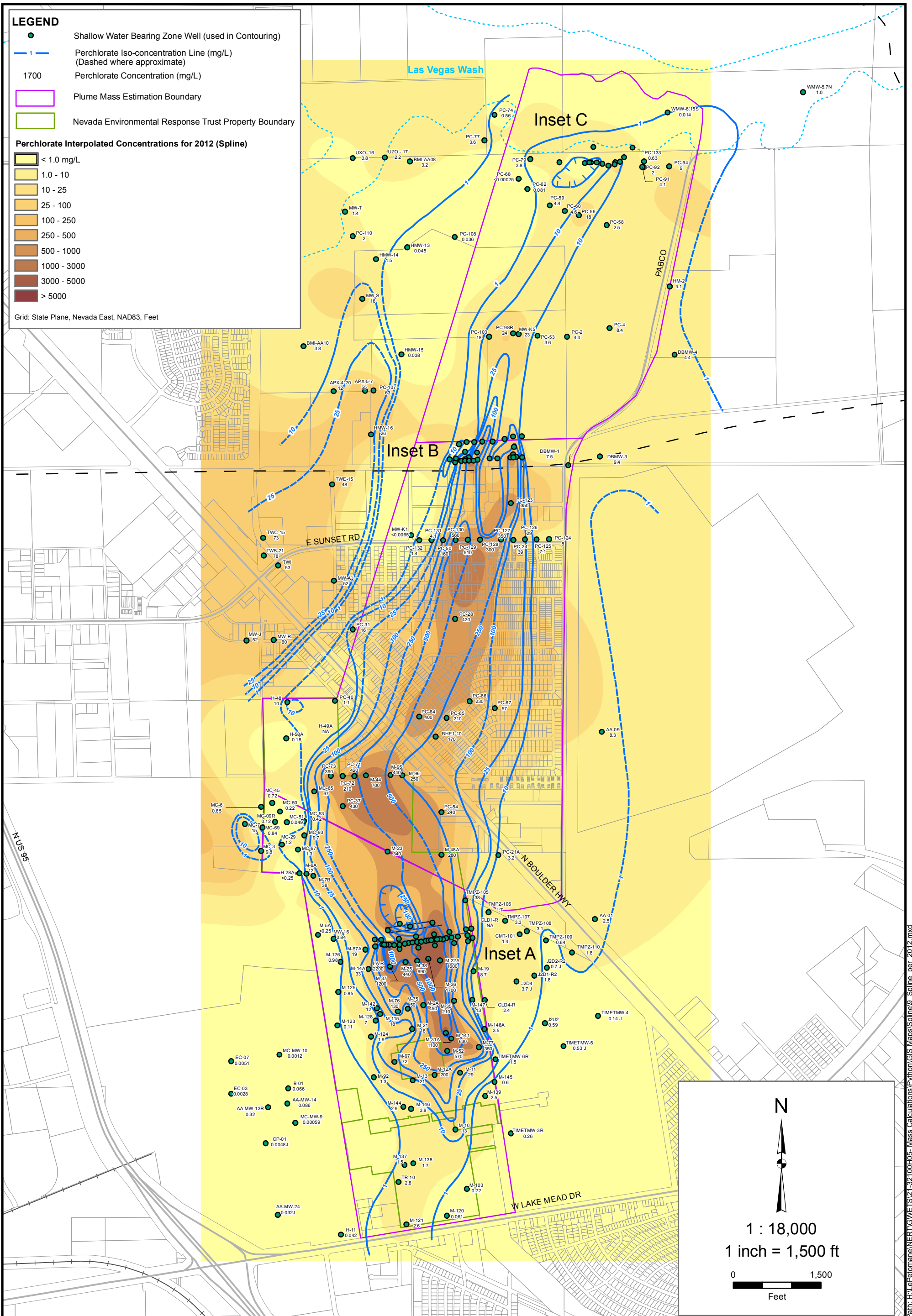


2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater Perchlorate (2006)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
2-4a



Spline Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
2-5a



2200 Powell St., Suite 700, Emeryville, CA 94608

Drafter: EA

Date: 8/29/2013

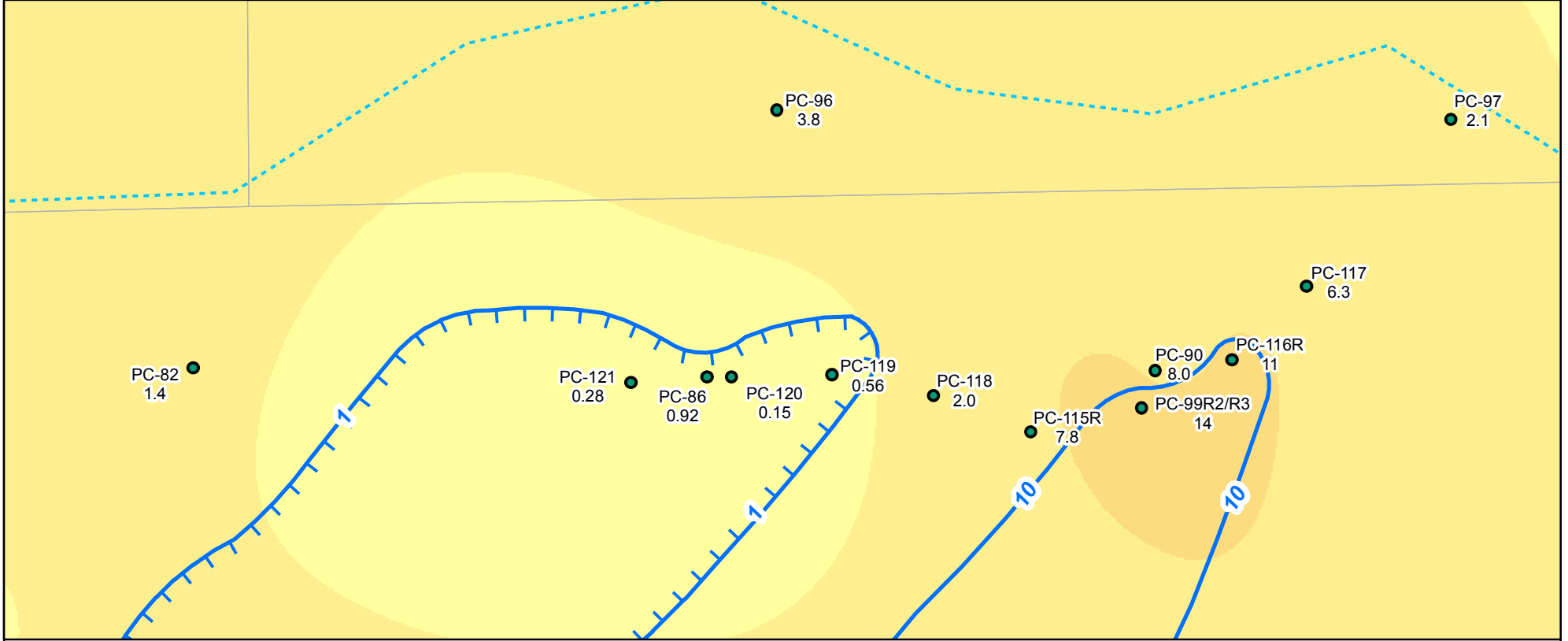
Contract Number: 21-32100H05

Approved by:

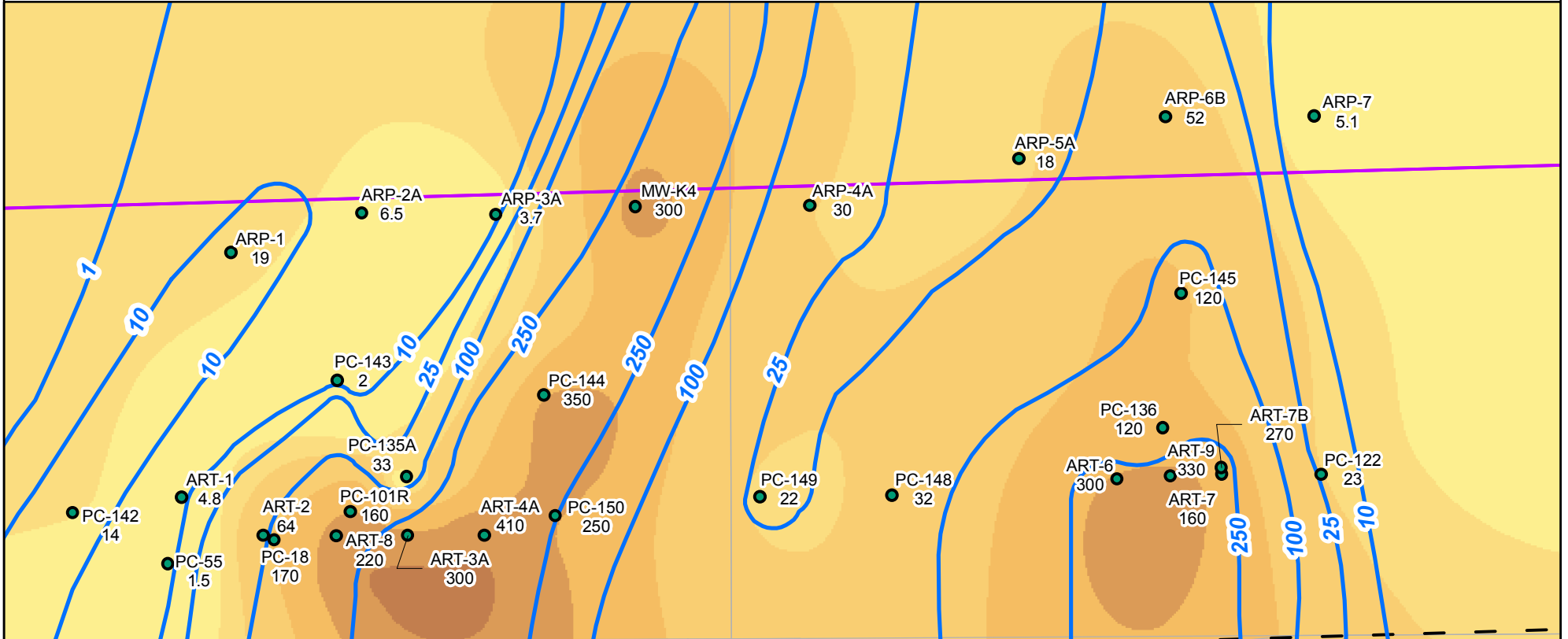
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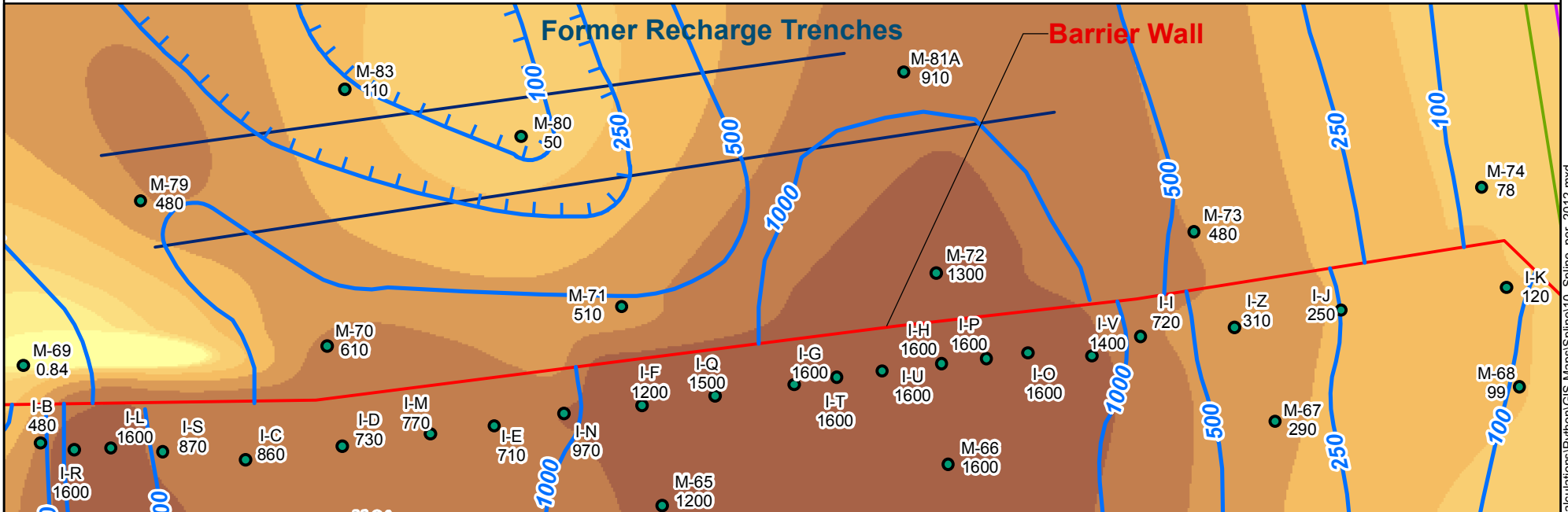
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Inset B



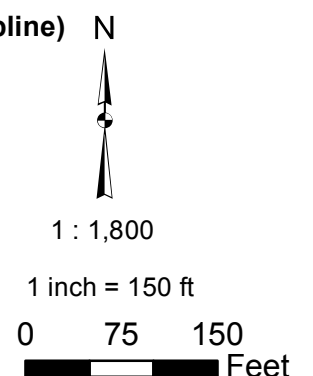
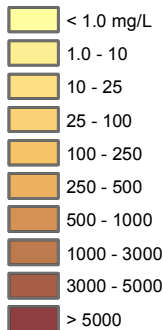
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- ▭ Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2012 (Spline)



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

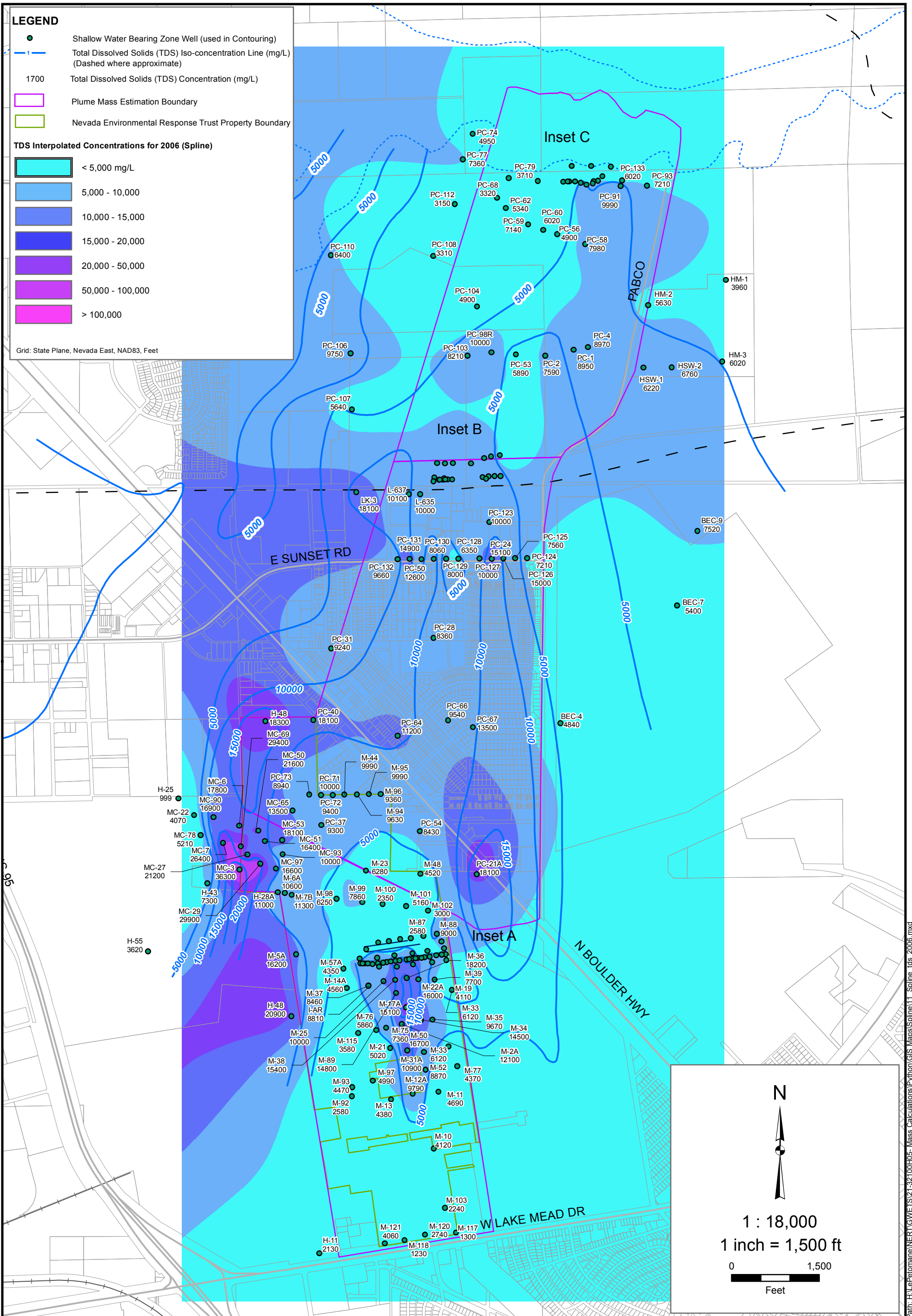
Contract Number: 21-32100H05

Approved by:

Revised:

Figure
2-5b

Path: H:\LePetomane\NERT\GWE\TS21-32100H05 - Mass Calculations\Python\GIS Maps\Spline\10_Spline_per_2012.mxd



2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater TDS (2006)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

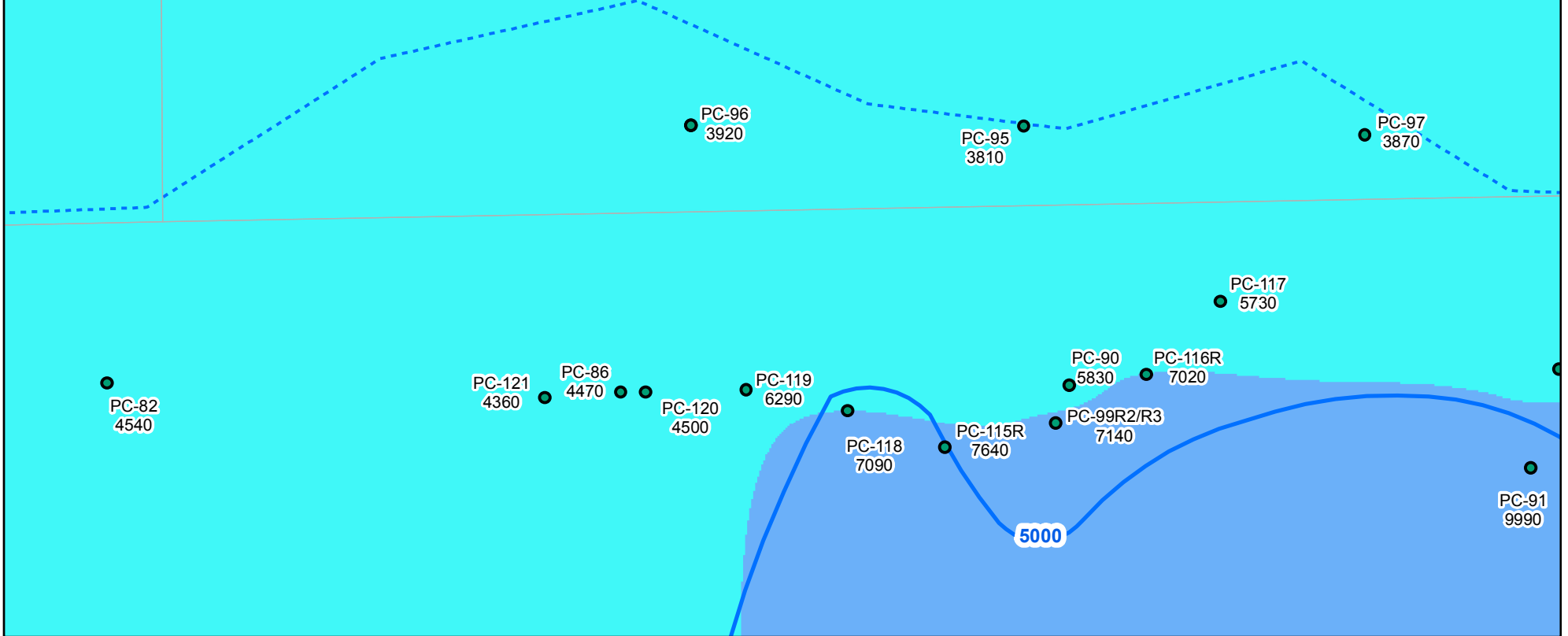
Approved by:

Revised:

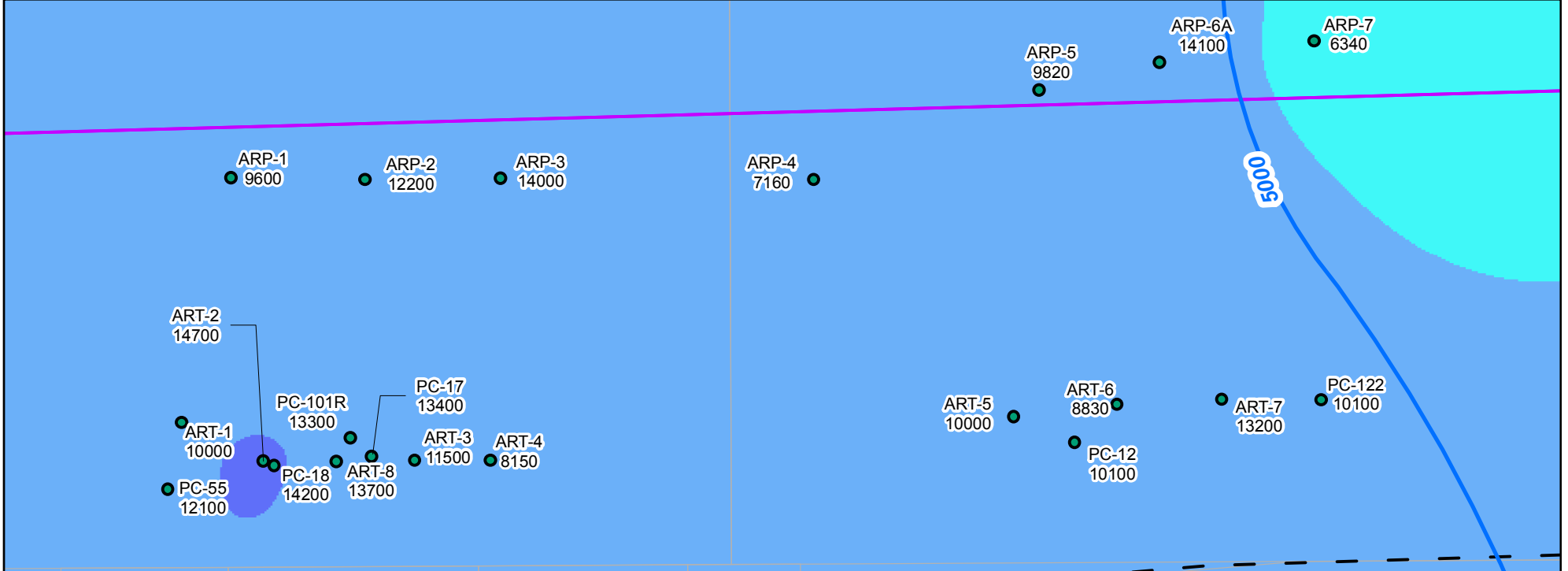
Figure
2-6a

Path: H:\Perfomance\NERT\GIS\21-32100H05 - Mass Calculators\Python\GIS Maps\Spline11_Spline_tds_2006.mxd

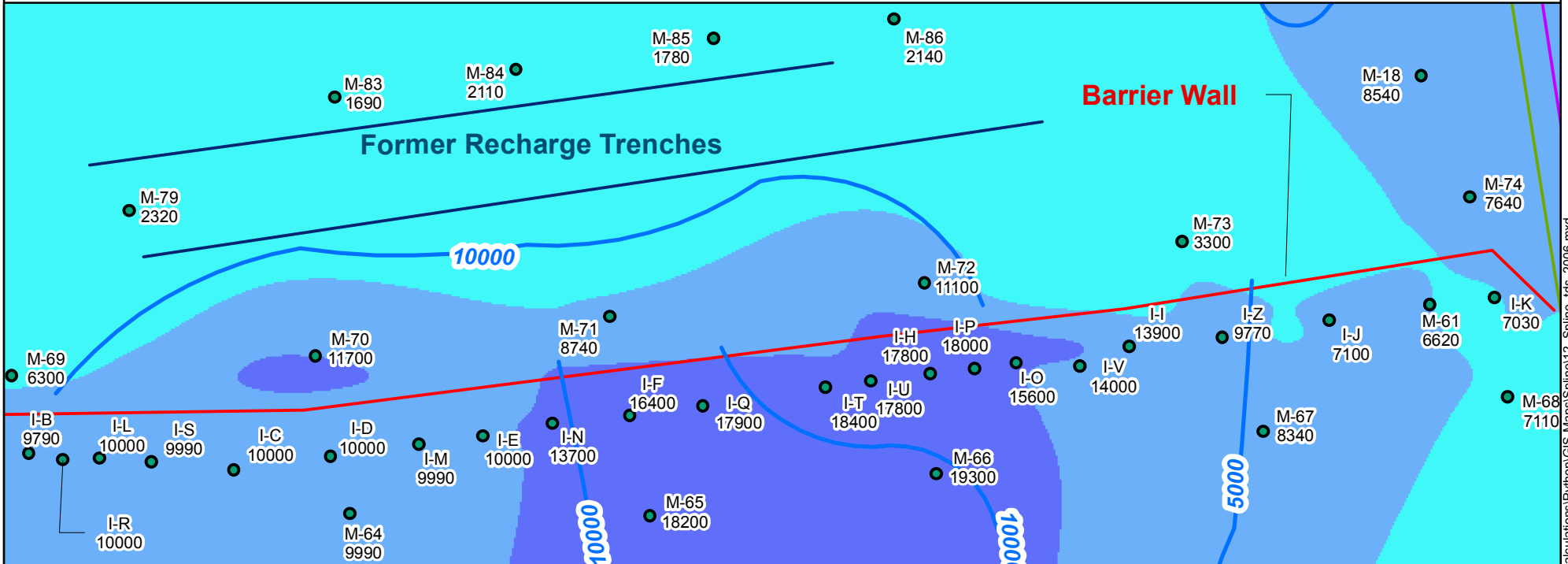
Inset C



Inset B



Inset A

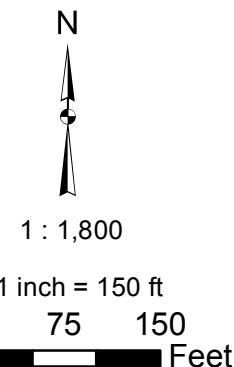


LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

TDS Interpolated Concentrations for 2006 (Spline)

< 5,000 mg/L
5,000 - 10,000
10,000 - 15,000
15,000 - 20,000
20,000 - 50,000
50,000 - 100,000
> 100,000



Grid: State Plane, Nevada East, NAD83, Feet



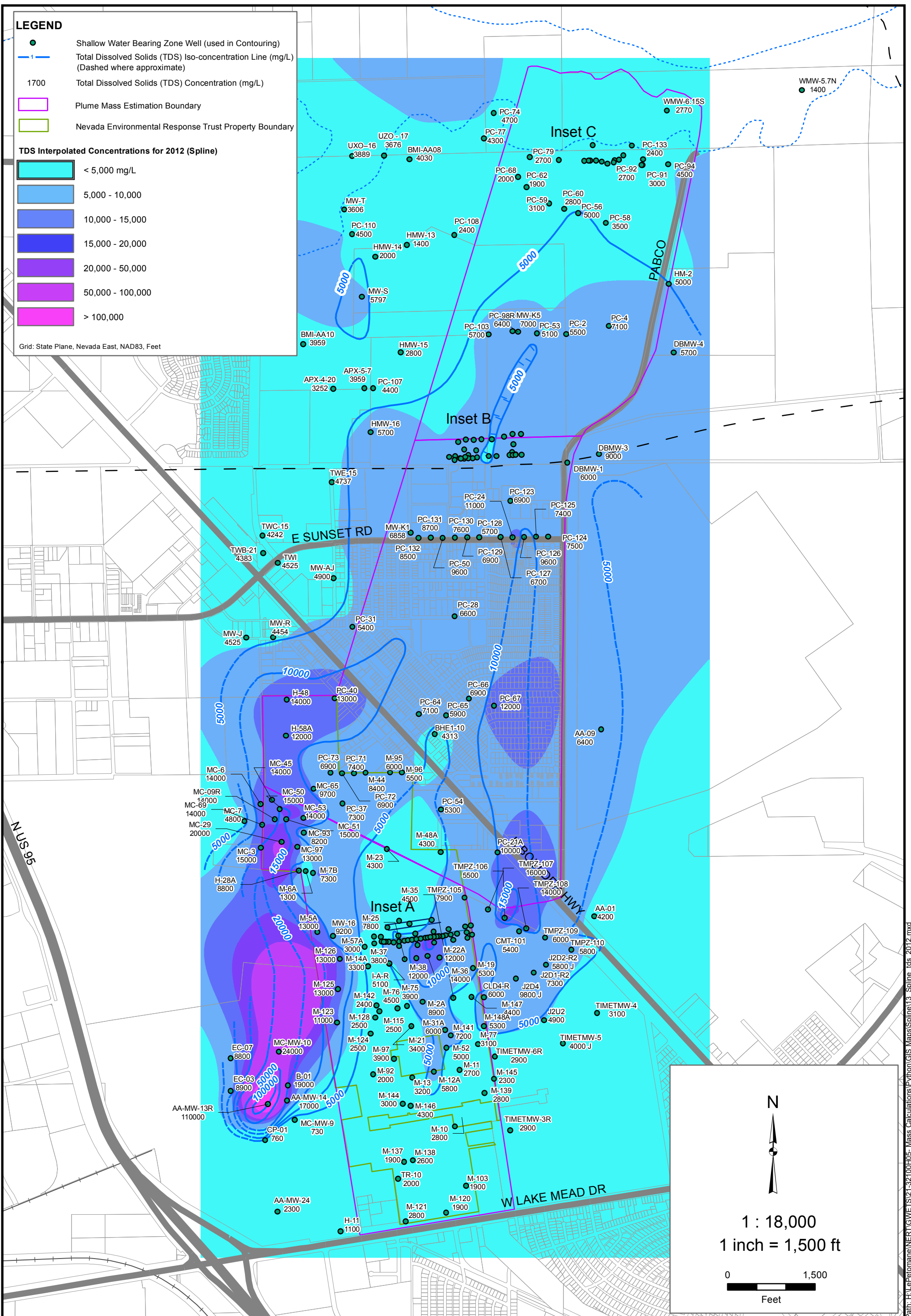
2200 Powell St., Suite 700, Emeryville, CA 94608

Spline Interpolation of Groundwater TDS (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
2-6b

Path: H:\LePetomane\NERT\GWT\21-32100H05-Mass Calculations\Python\GIS Maps\Spline\12_Spline_106_2006.mxd



2200 Powell St., Suite 700, Emeryville, CA 94608

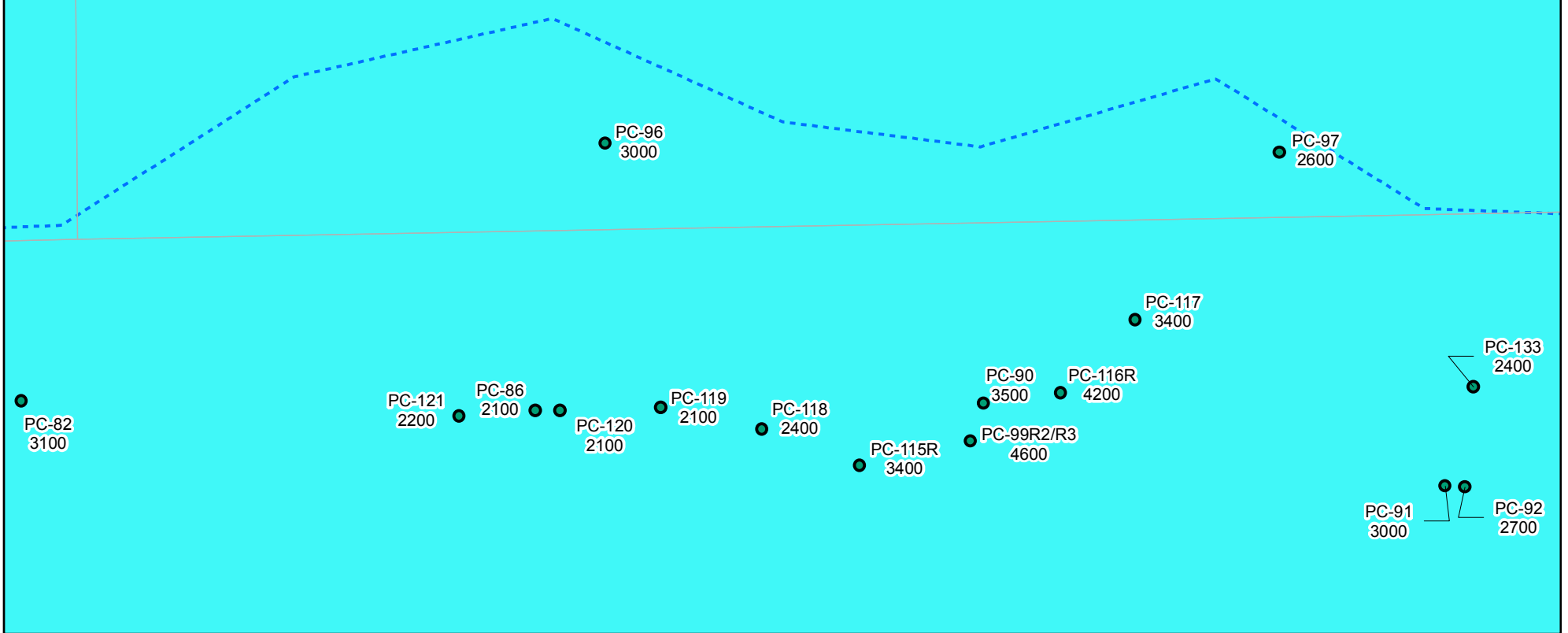
Spline Interpolation of Groundwater TDS (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
2-7a

Path: H:\Perfomance\NERT\GIS\21-32100H05 - Mass Calculations\Python\GIS Maps\Spline13_Spline_tds_2012.mxd

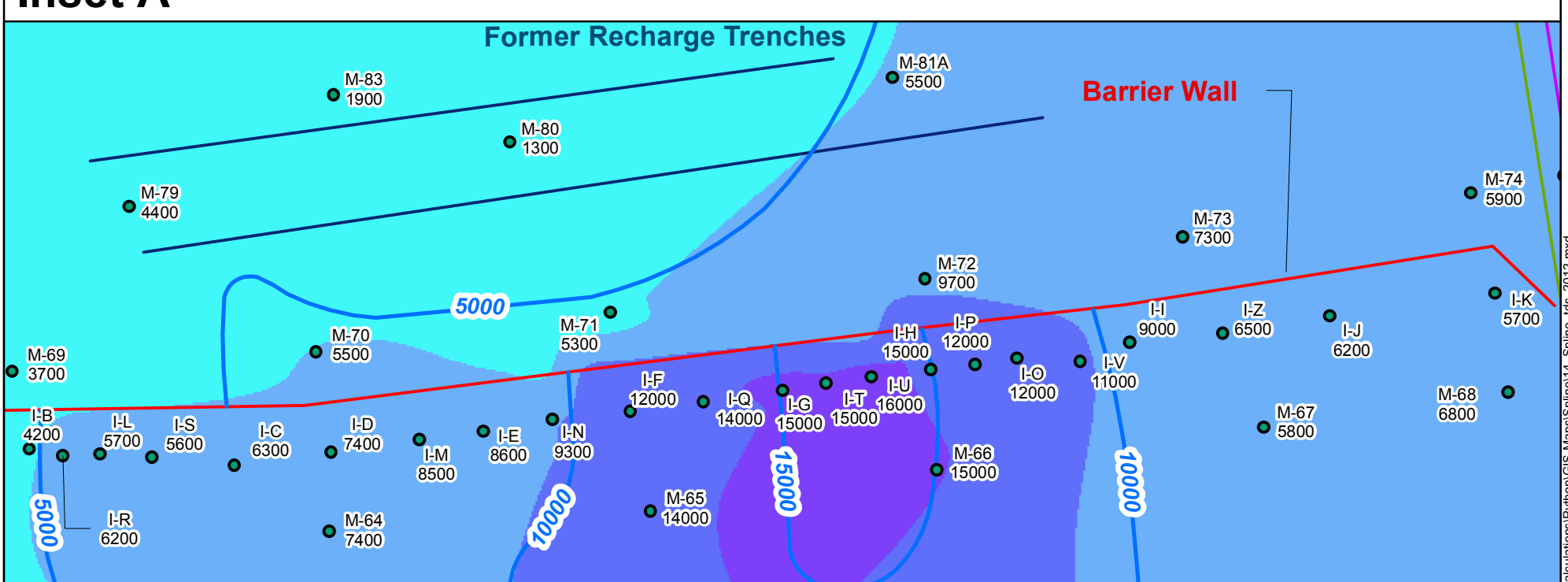
Inset C



Inset B



Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

TDS Interpolated Concentrations for 2012 (Spline)

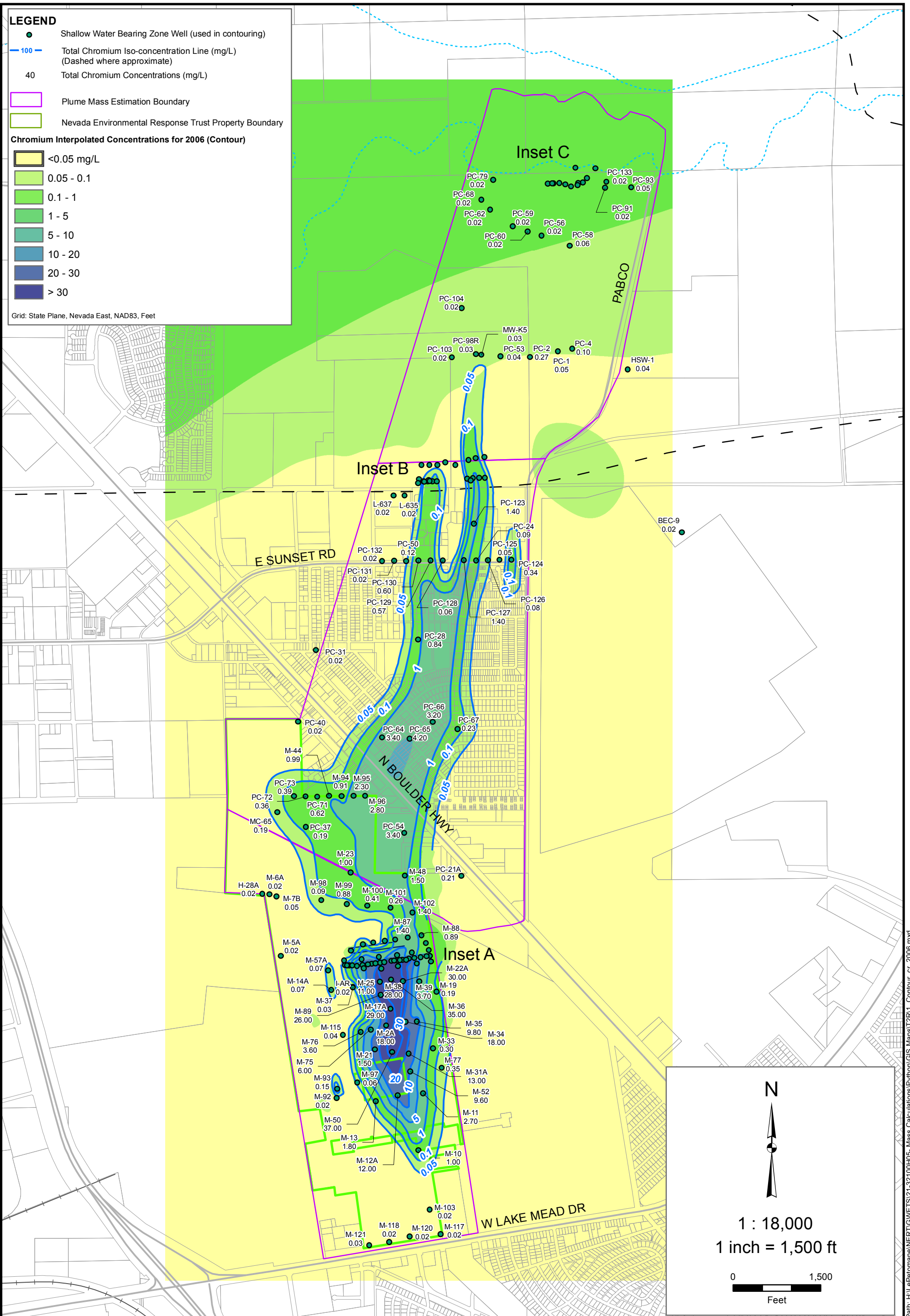
	< 5,000 mg/L
	5,000 - 10,000
	10,000 - 15,000
	15,000 - 20,000
	20,000 - 50,000
	50,000 - 100,000
	> 100,000

Grid: State Plane, Nevada East, NAD83, Feet

Scale: 1 : 1,800
1 inch = 150 ft
0 75 150 Feet

North Arrow

Path: H:\LePetomane\NERT\GWE\TS21-32100H05 - Mass Calculations\Python\GIS Maps\Spline\14_Spline_102_2012.mxd



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Chromium (2006)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

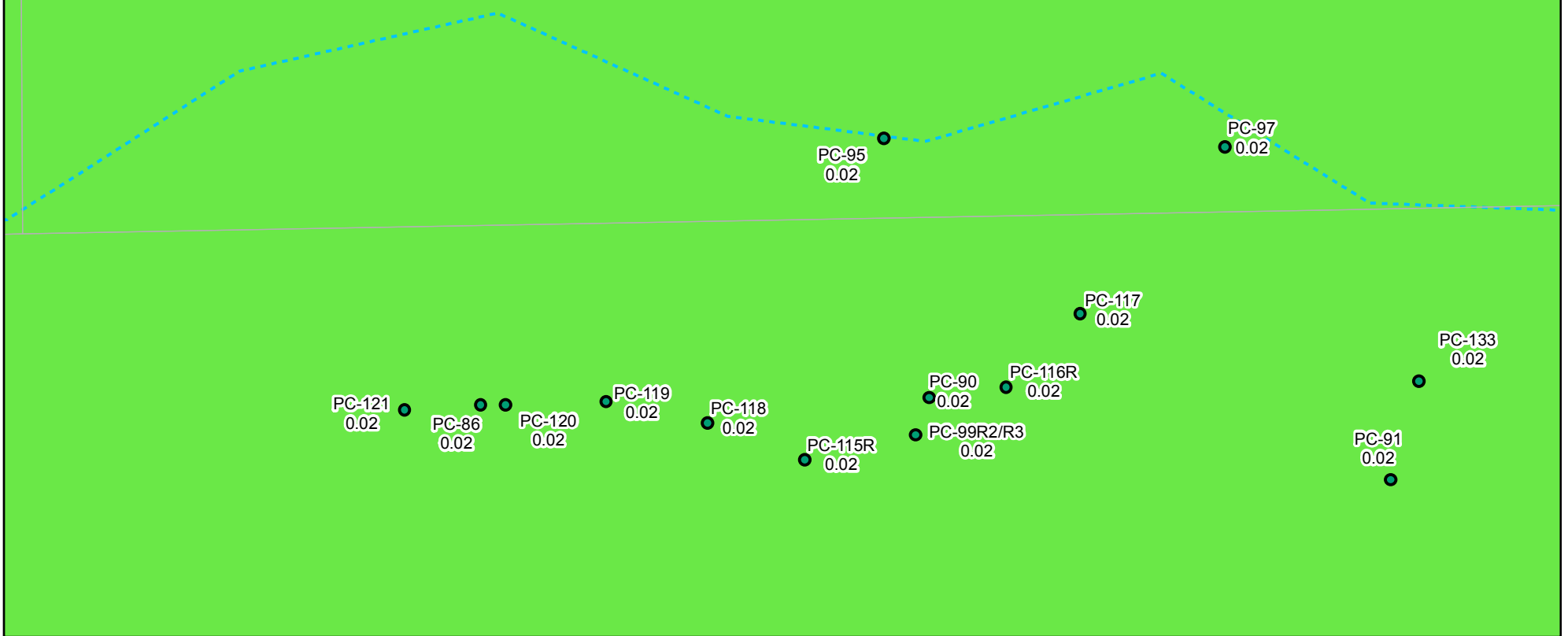
Approved by:

Revised:

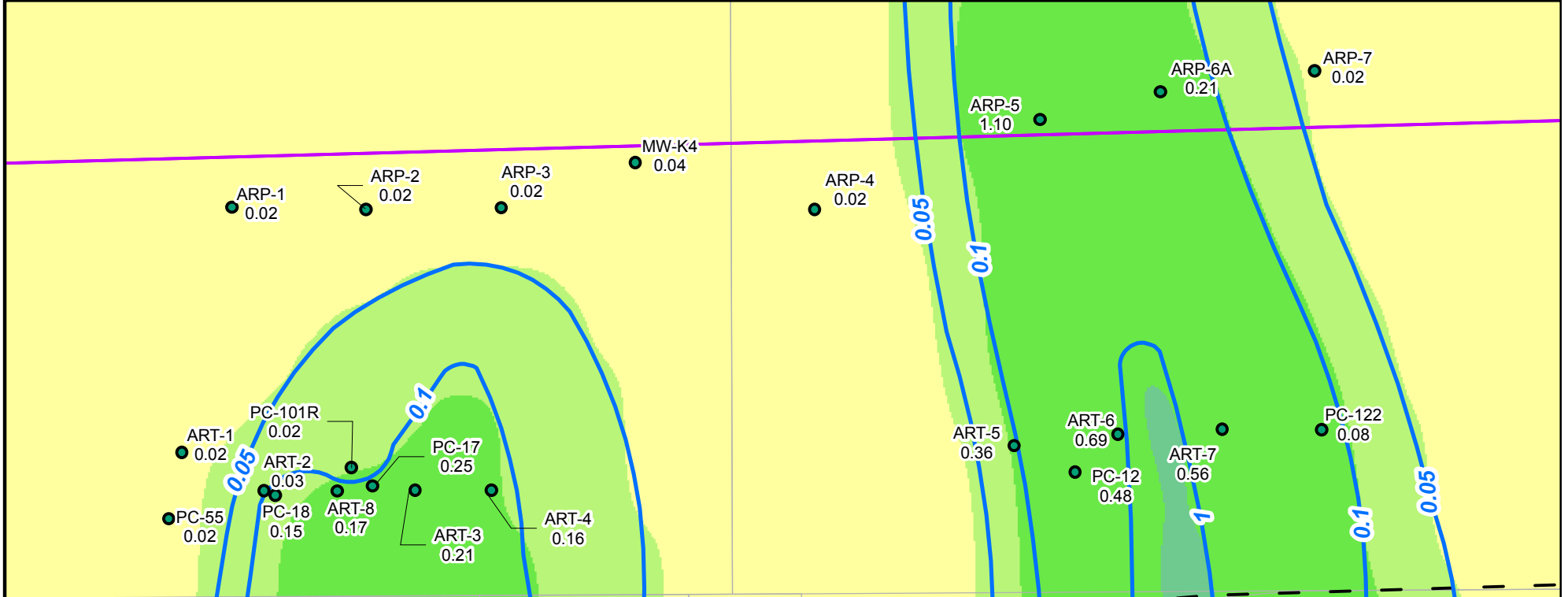
Figure
3-1a

Path: H:\Perfomance\NERT\GWTS\21-32100H05 - Mass Calculations\Python\GIS Maps\12R1_Contour_cr_2006.mxd

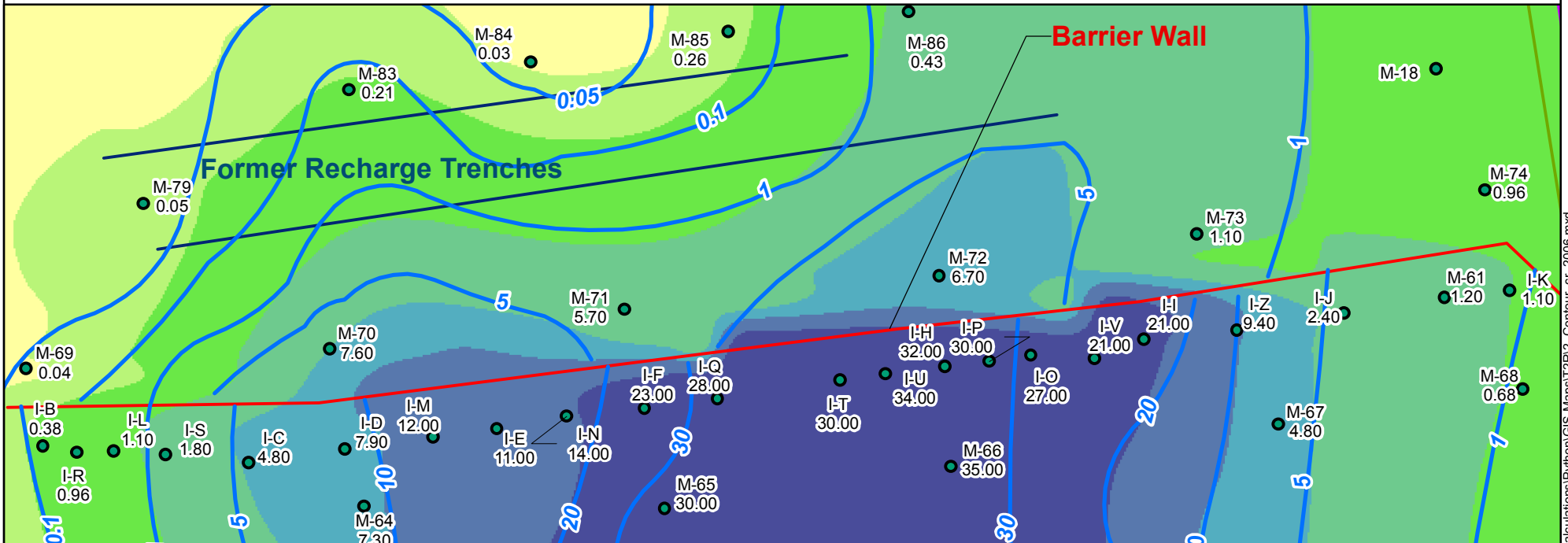
Inset C



Inset B



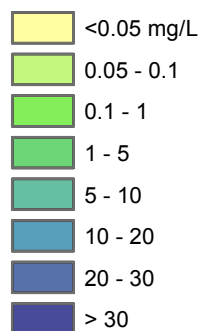
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LEGEND

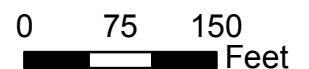
- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Total Chromium Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Total Chromium Concentration (mg/L)
- Plume Mass Estimation Boundary

Chromium Interpolated Concentrations for 2006 (Contour)



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Chromium (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

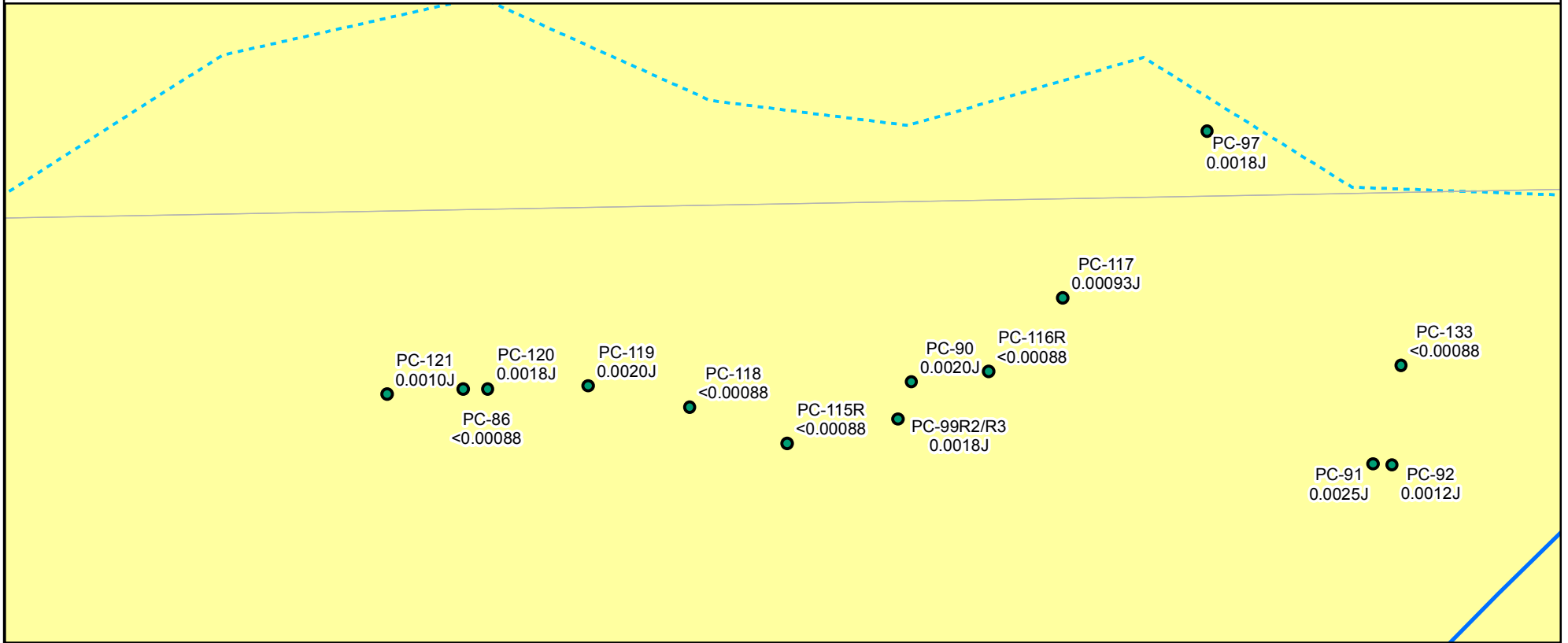
Approved by:

Revised:

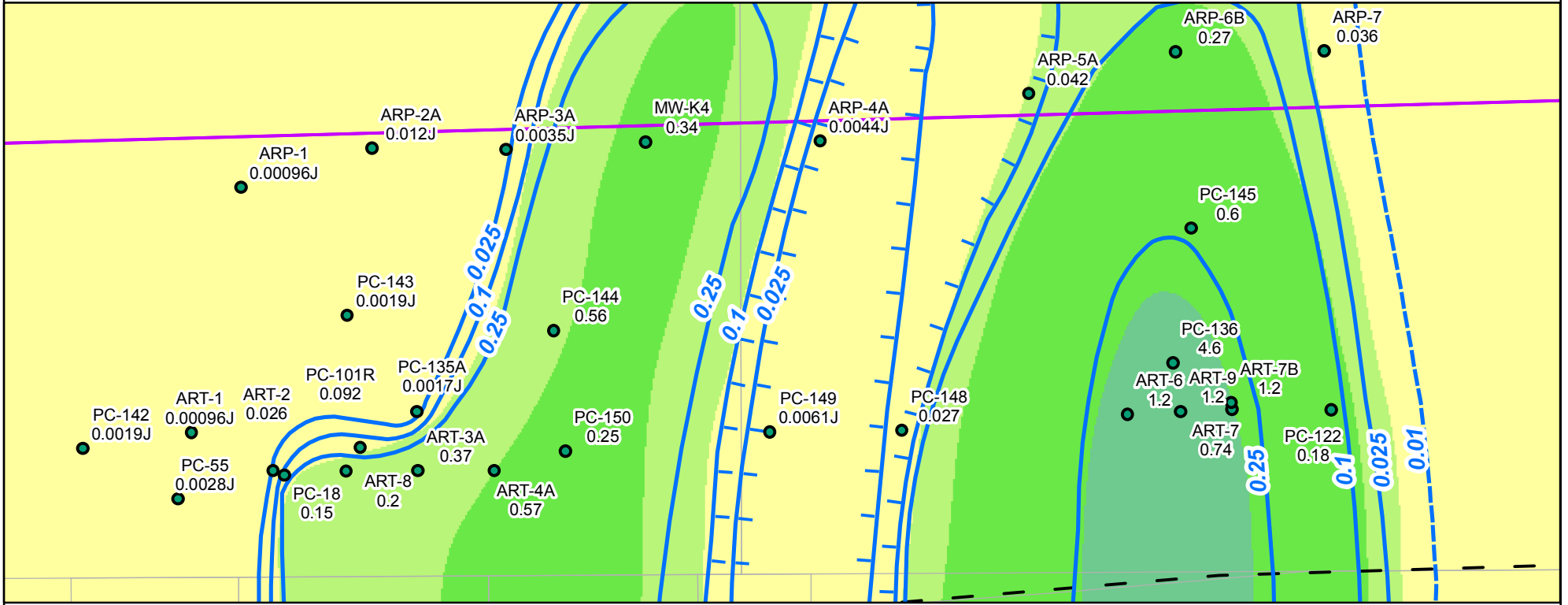
Figure
3-1b

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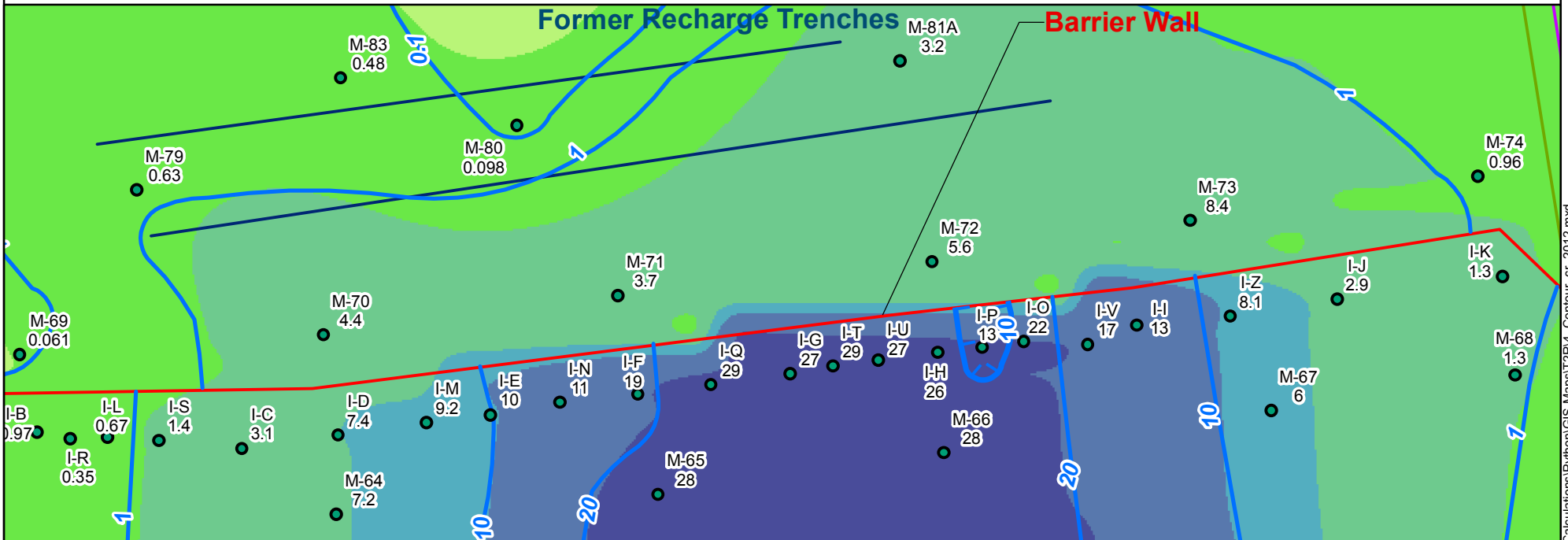
Inset C



Inset B



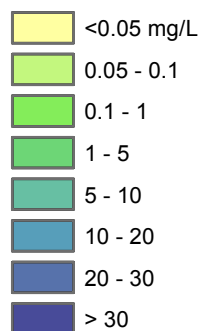
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LEGEND

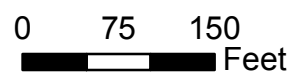
- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Chromium Concentration (mg/L)
- Plume Mass Estimation Boundary

Chromium Interpolated Concentrations for 2012 (Contour)



1:1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Chromium (2012)

Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

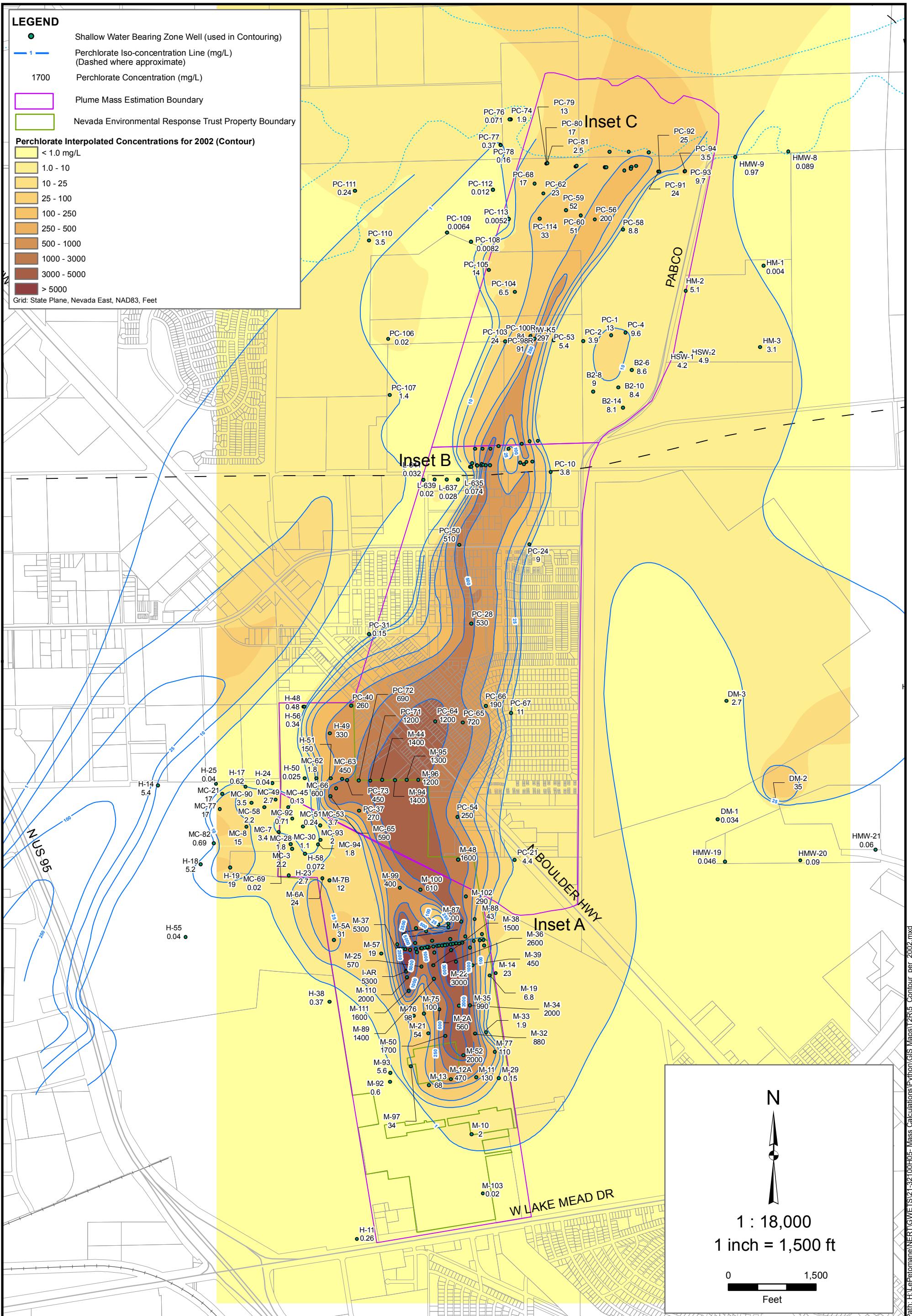
Date: 8/29/2013

Contract Number: 21-32100H05

Approved by:

Revised:

Figure
3-2b



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Perchlorate (2002)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

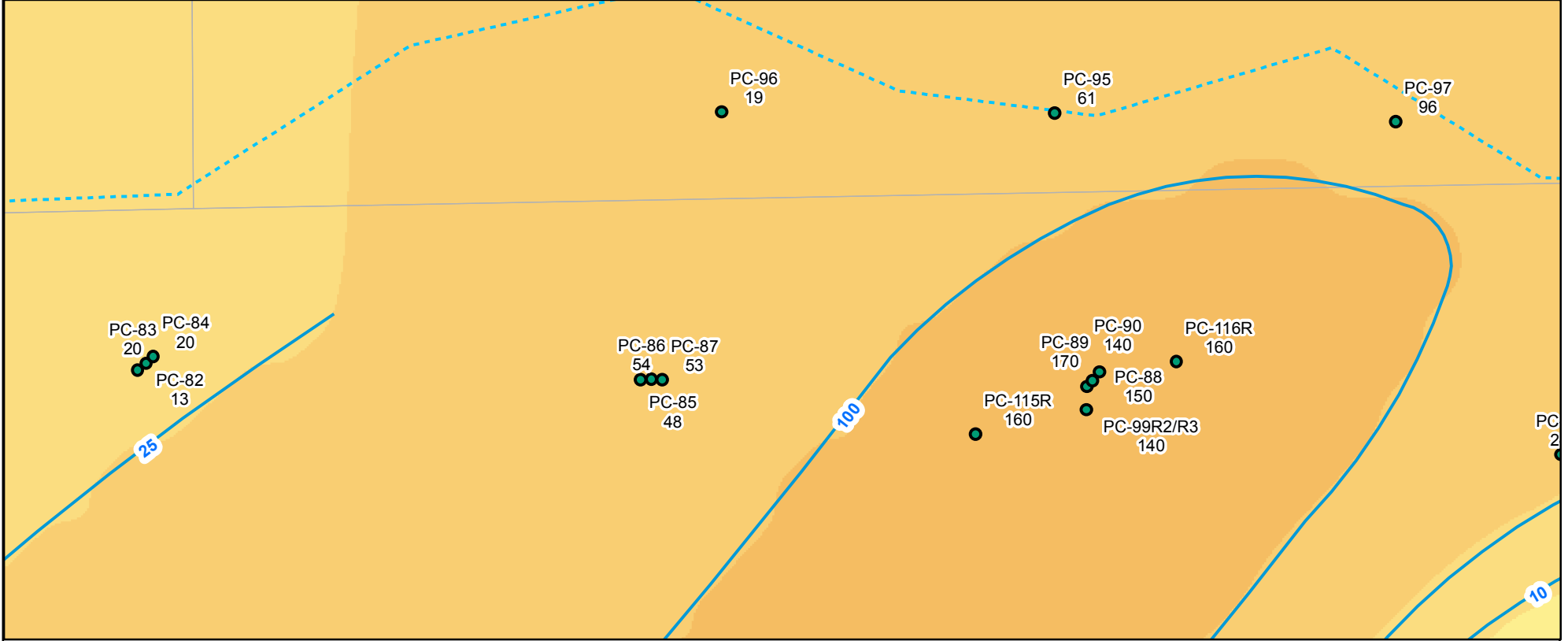
Approved by:

Revised:

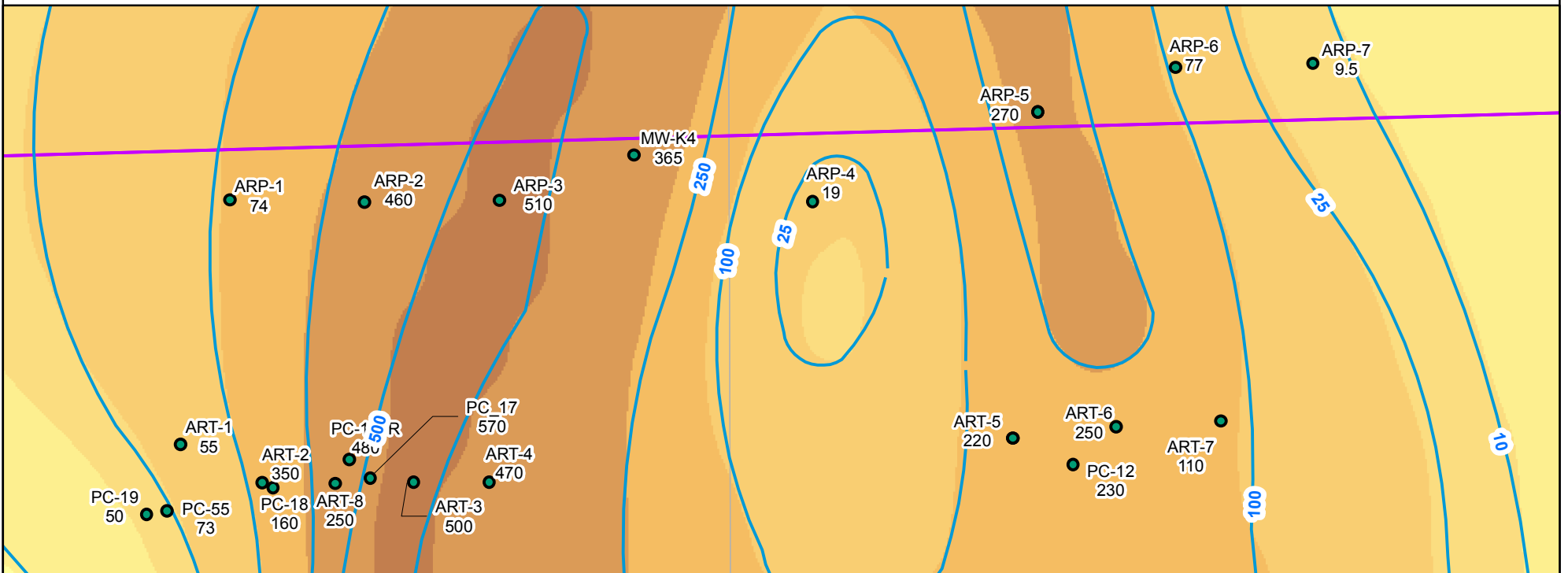
Figure
3-3a

Path: H:\Perchlorate\NERT\GIS\21-32100H05 - Mass Calculations\Python\GIS Maps\12R15 - Contour_per_2002.mxd

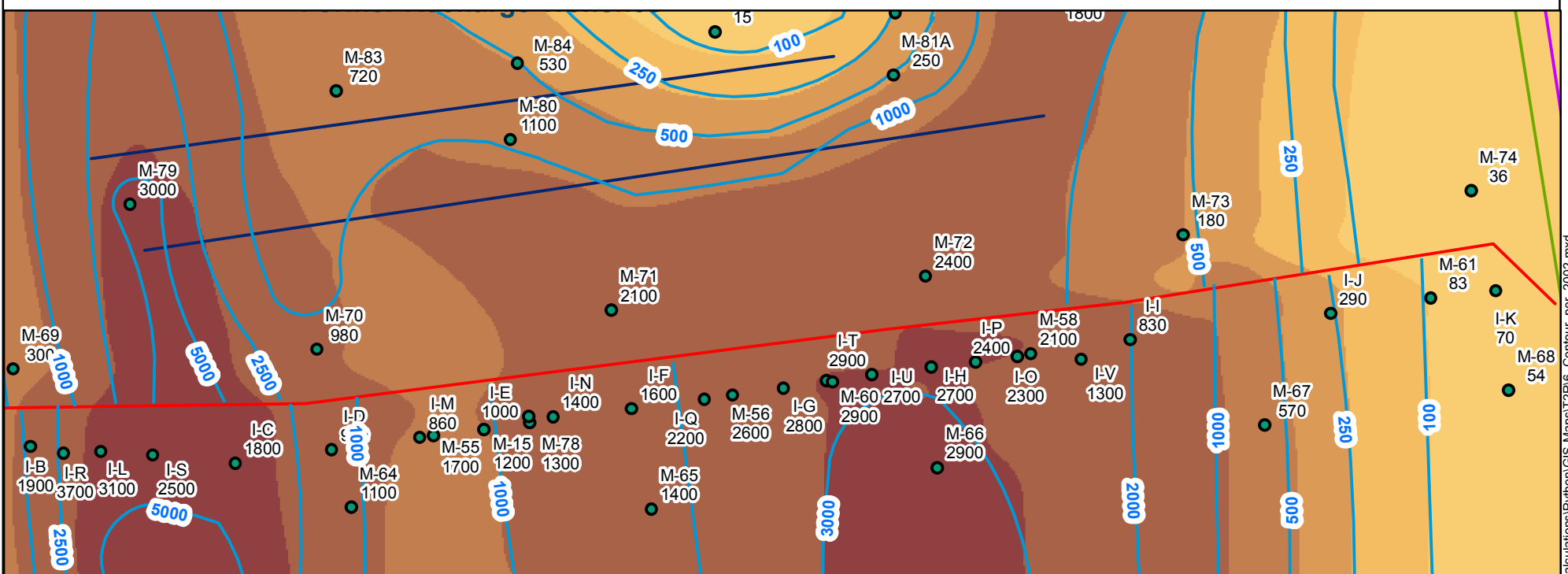
Inset C



Inset B



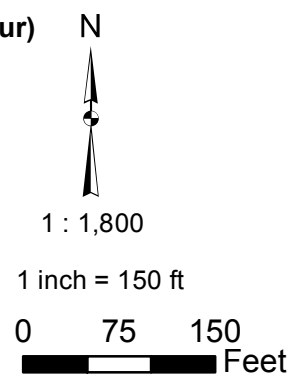
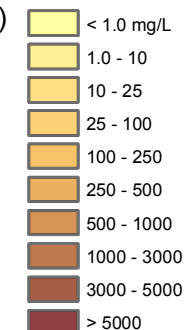
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchlorate Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2002 (Contour)



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

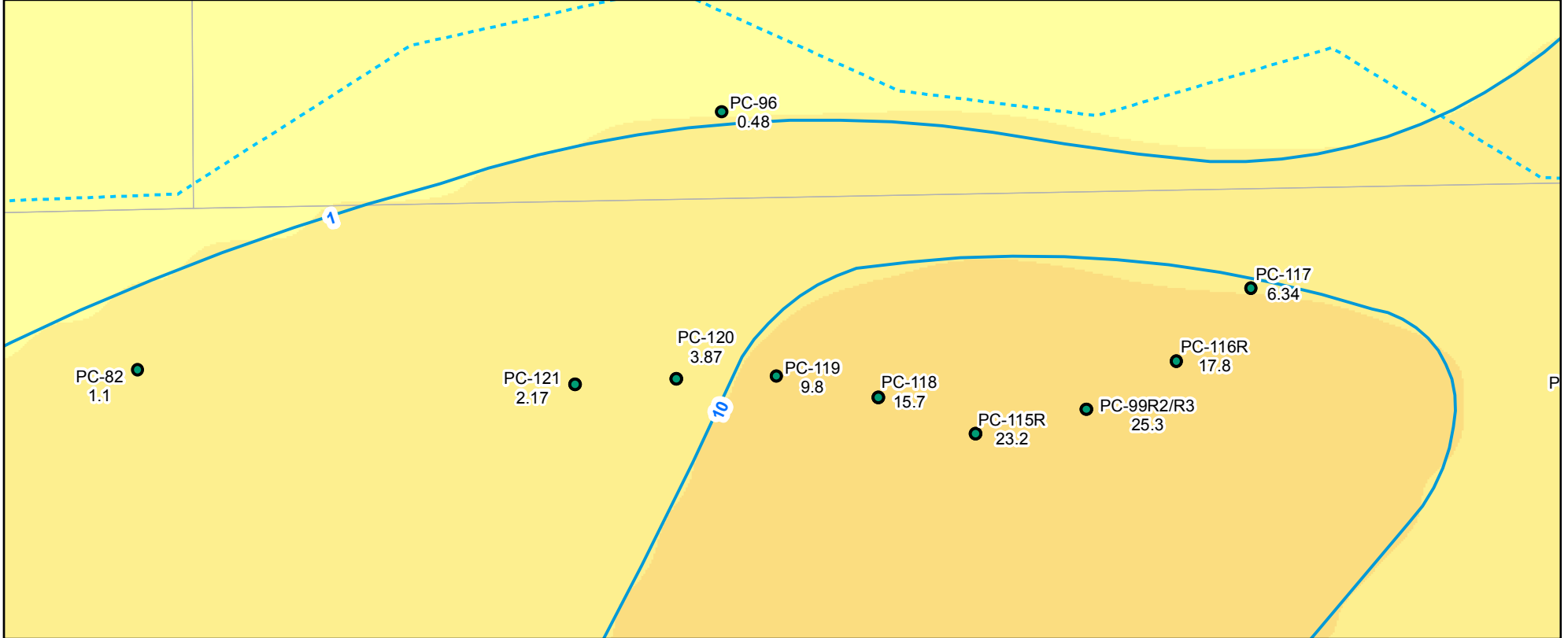
Contour Interpolation of Groundwater Perchlorate (2002) Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

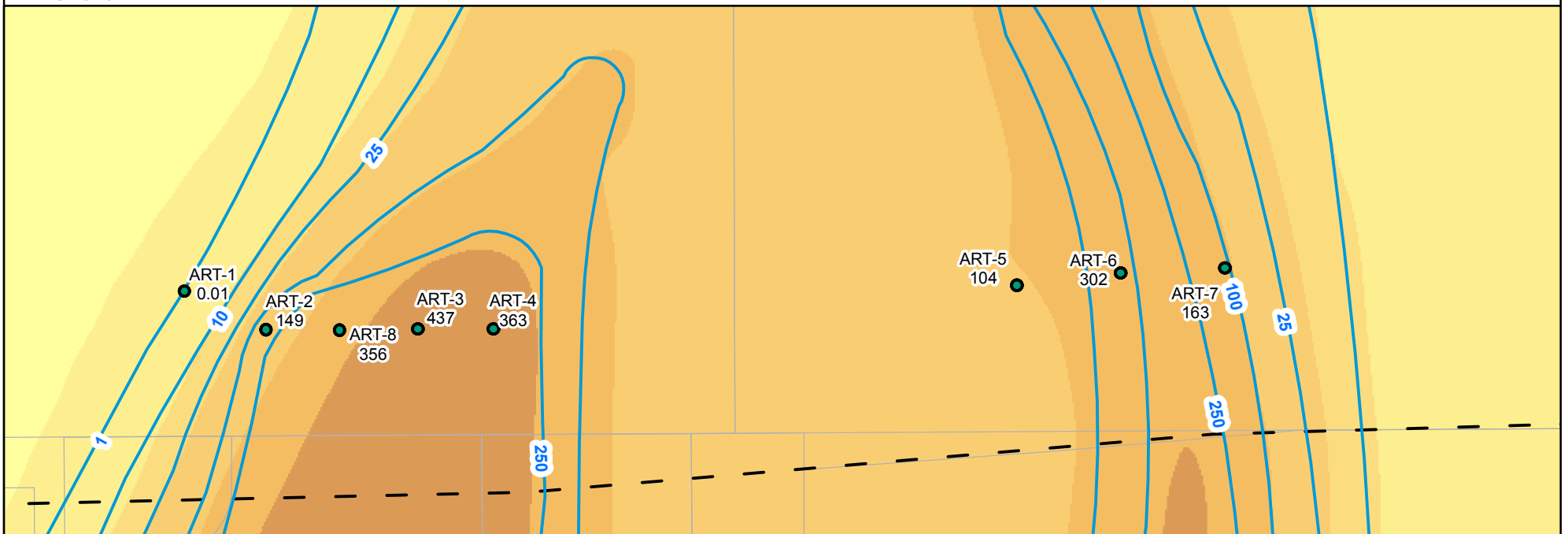
Figure
3-3b

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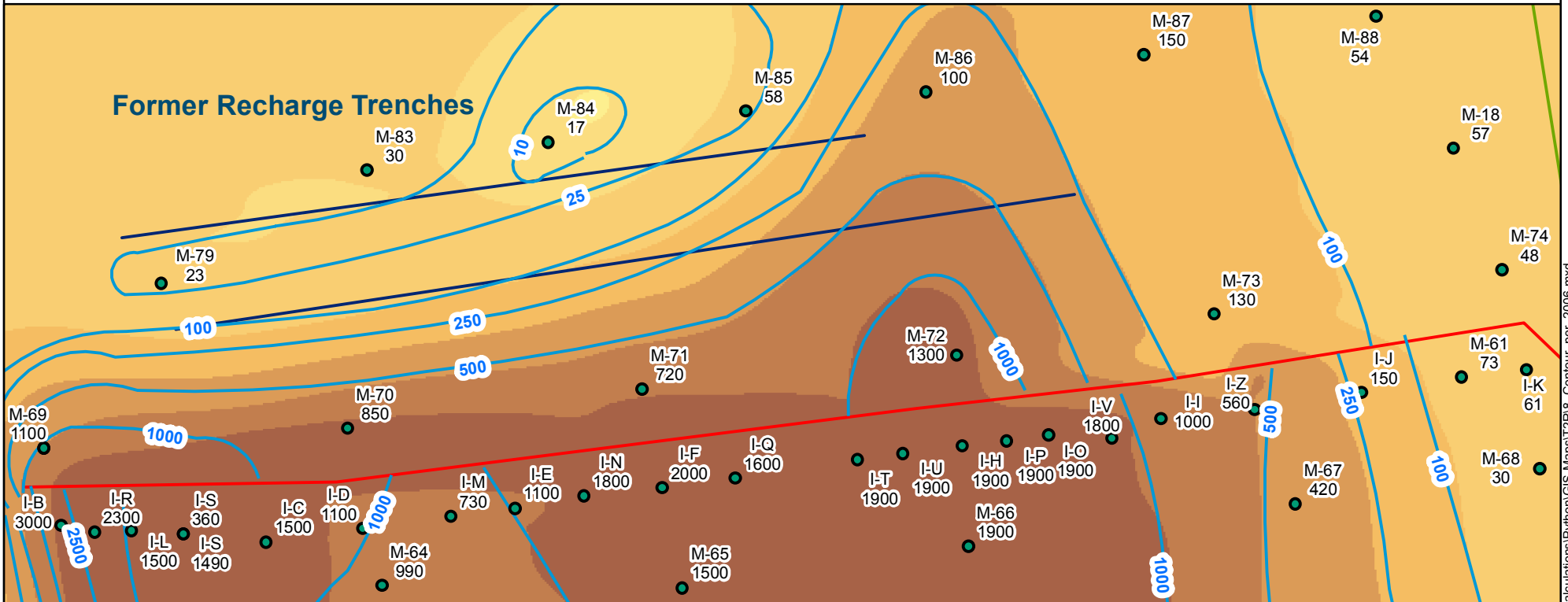
Inset C



Inset B



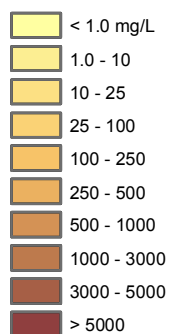
Inset A



LEGEND

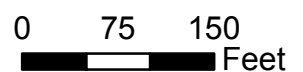
- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Perchlorate Iso-concentration Line (mg/L)
(Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2006 (Contour)



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Perchlorate (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

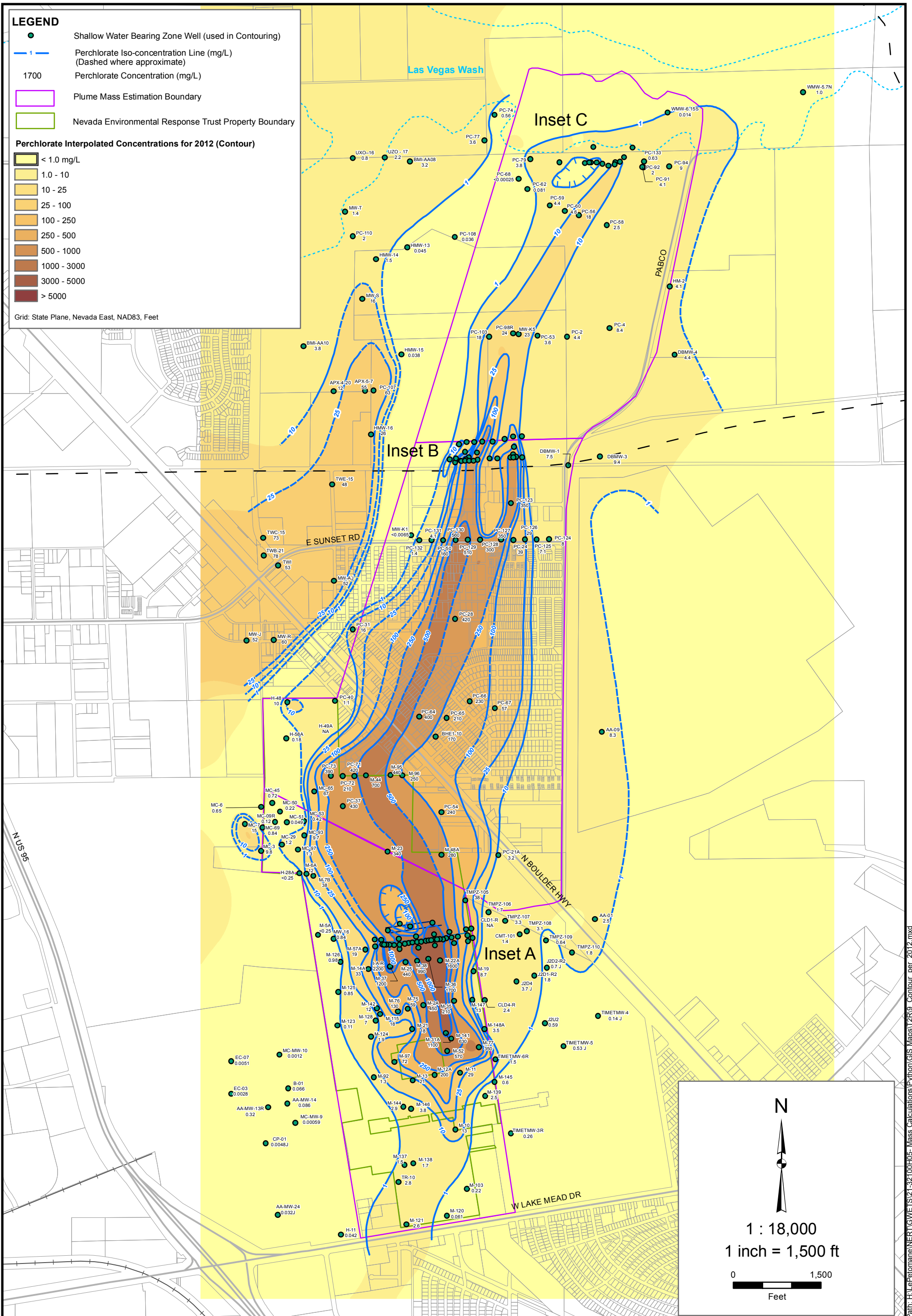
Date: 8/29/2013

Contract Number: 21-32100H05

Approved by:

Revised:

Figure
3-4b



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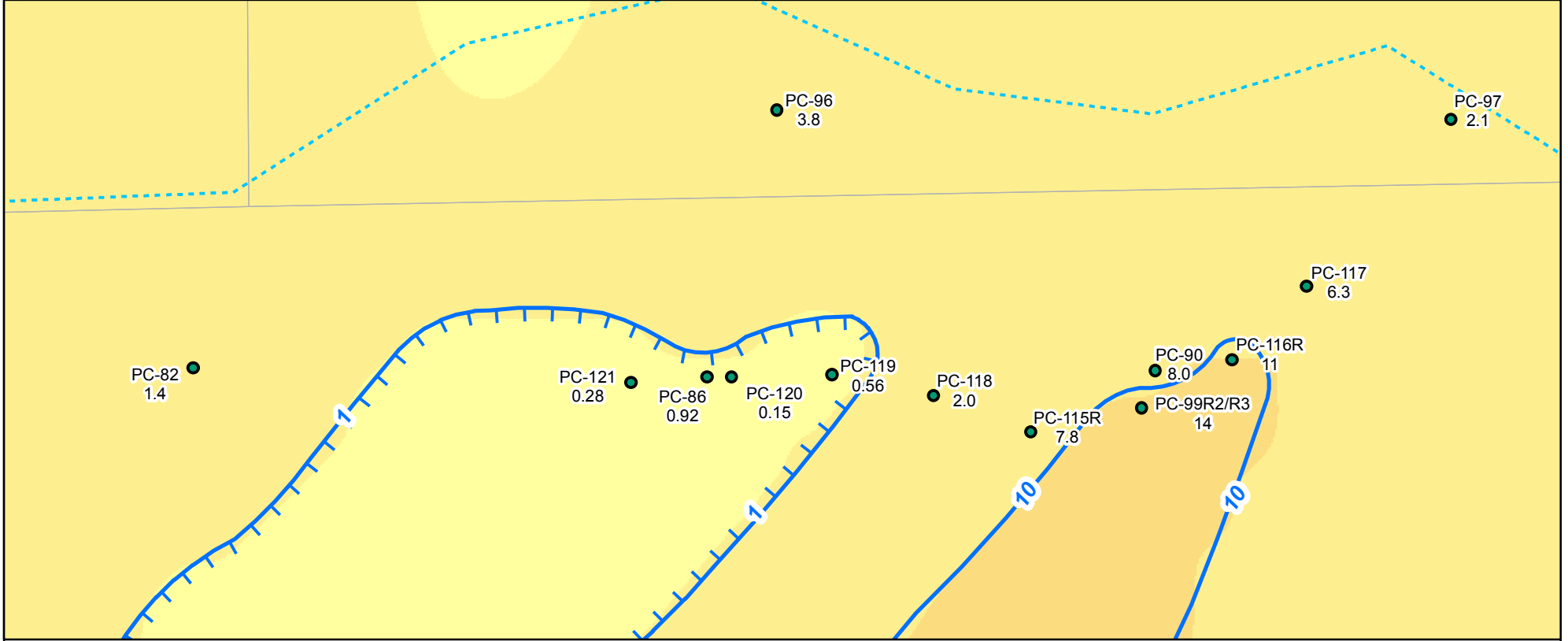
2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

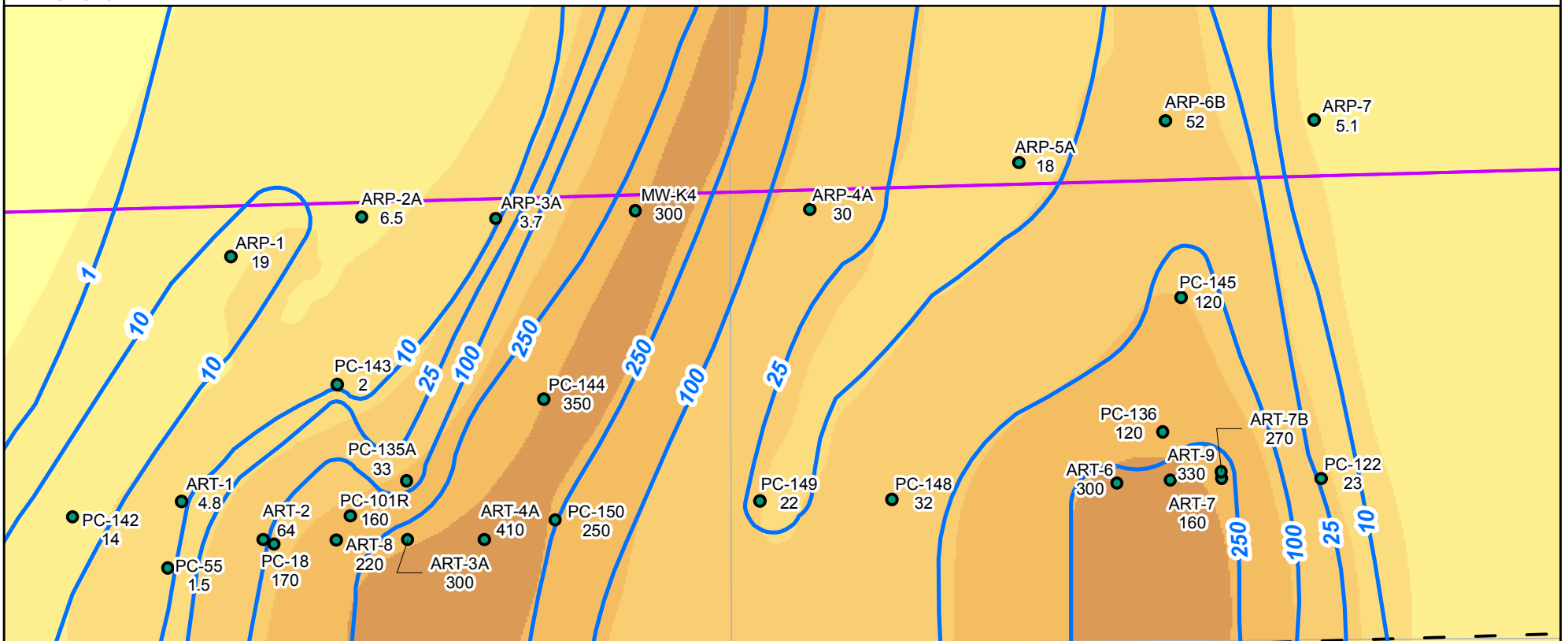
Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
3-5a

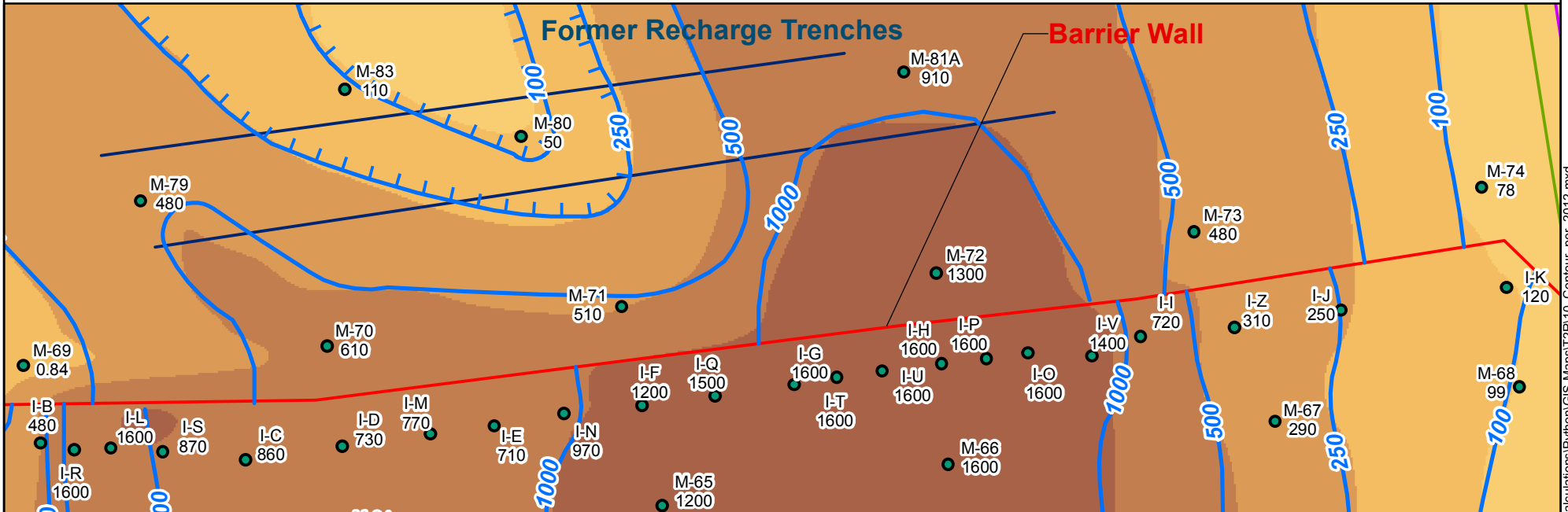
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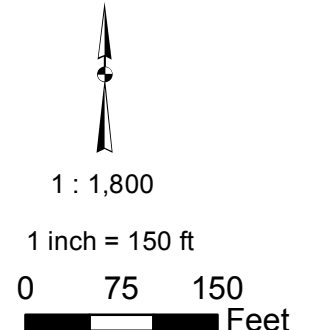
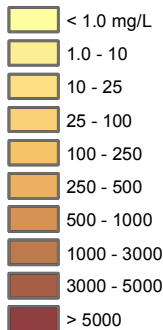
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Perchlorate Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Perchlorate Concentration (mg/L)
- ▭ Plume Mass Estimation Boundary

Perchlorate Interpolated Concentrations for 2012 (Contour)N



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater Perchlorate (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

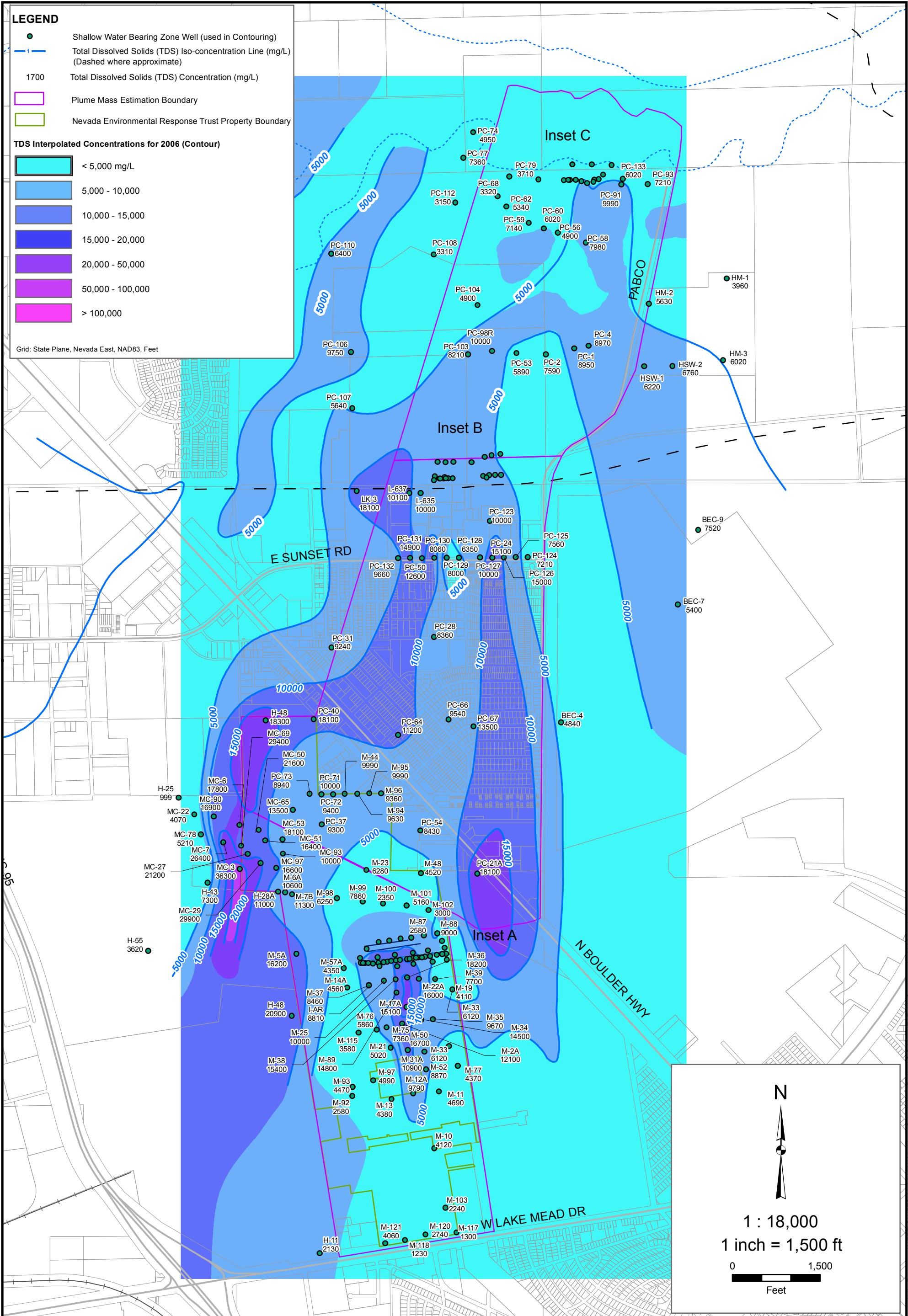
Contract Number: 21-32100H05

Approved by:

Revised:

Figure
3-5b

Path: H:\LePétomane\NERT\GWE\TS21-32100H05 - Mass Calculations\Python\GIS Maps\12R110_Contour_per_2012.mxd



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater TDS (2006)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

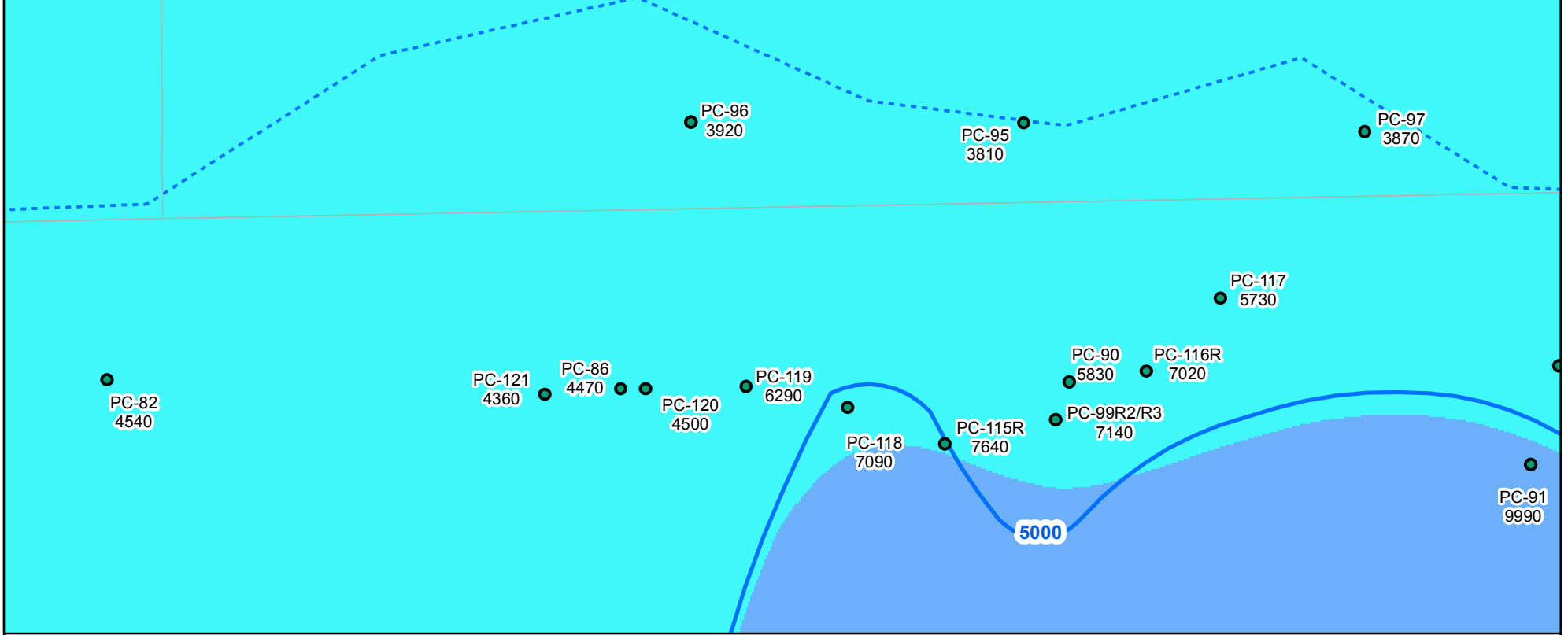
Approved by:

Revised:

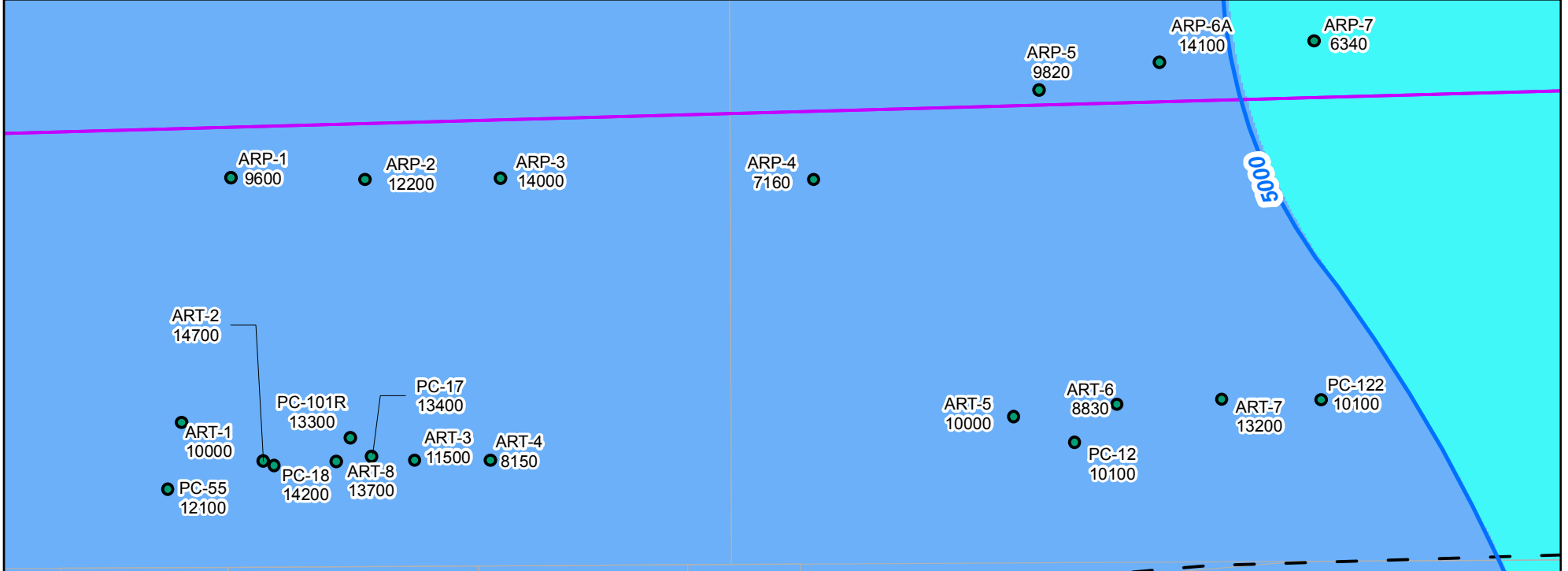
Figure
3-6a

Path: H:\Perfomance\NERT\GIS\21-32100H05 - Mass Calculators\Python\GIS Maps\12R111_Contour_us_2006.mxd

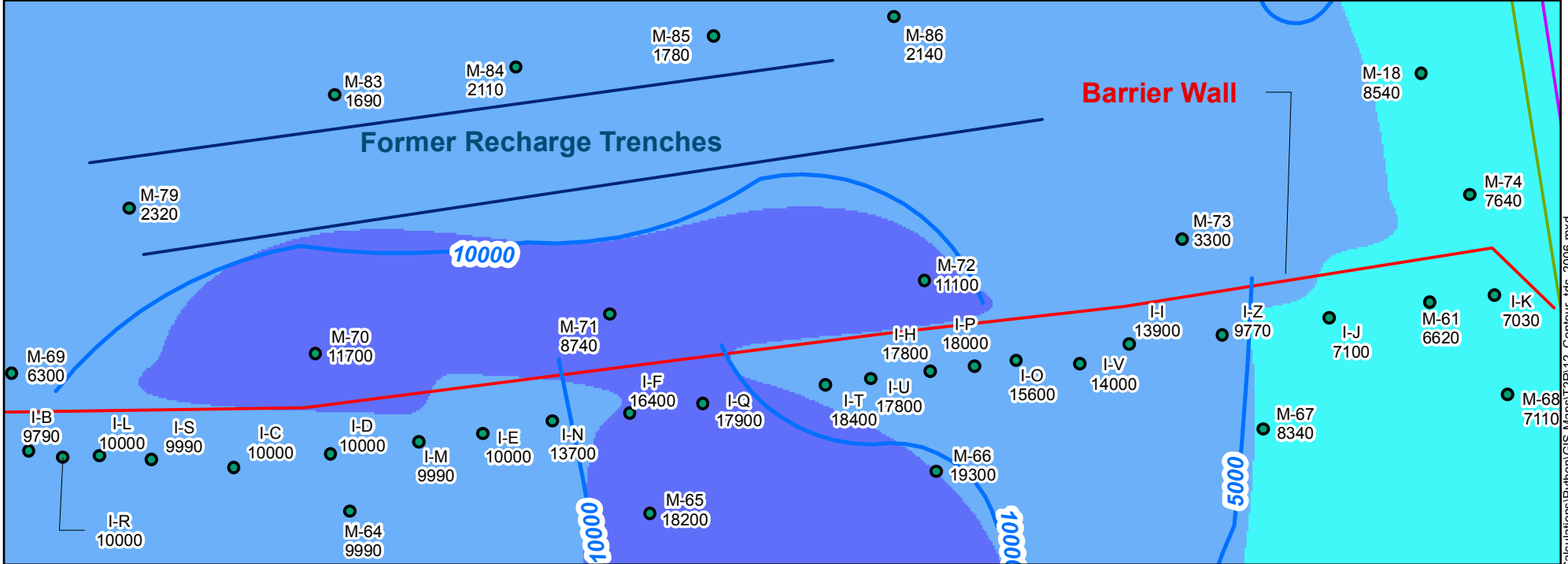
Inset C



Inset B



Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- 1- Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

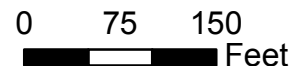
TDS Interpolated Concentrations for 2006 (Contour)

- < 5,000 mg/L
- 5,000 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000



1 : 1,800

1 inch = 150 ft



Grid: State Plane, Nevada East, NAD83, Feet



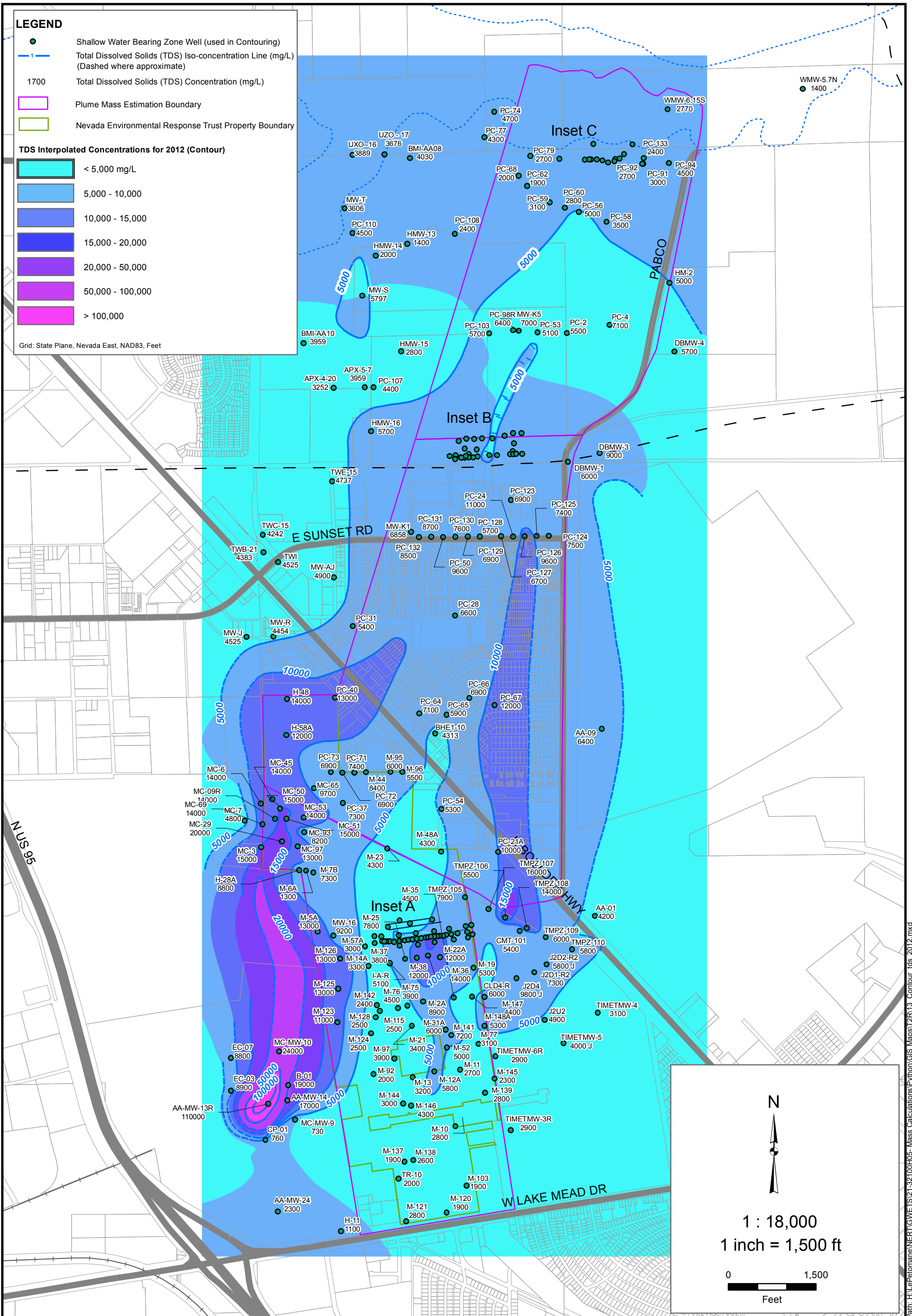
2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater TDS (2006)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA Date: 8/29/2013 Contract Number: 21-32100H05 Approved by: Revised:

Figure
3-6b

Path: H:\LePetomane\NERT\GWE\TS21-32100H05 - Mass Calculations\Python\GIS Maps\12R12_Contour_Lvs_2006.mxd



Contour Interpolation of Groundwater TDS (2012)
 Nevada Environmental Response Trust Site, Henderson, Nevada

Figure
3-7a



2200 Powell St., Suite 700, Emeryville, CA 94608

Drafter: EA

Date: 8/29/2013

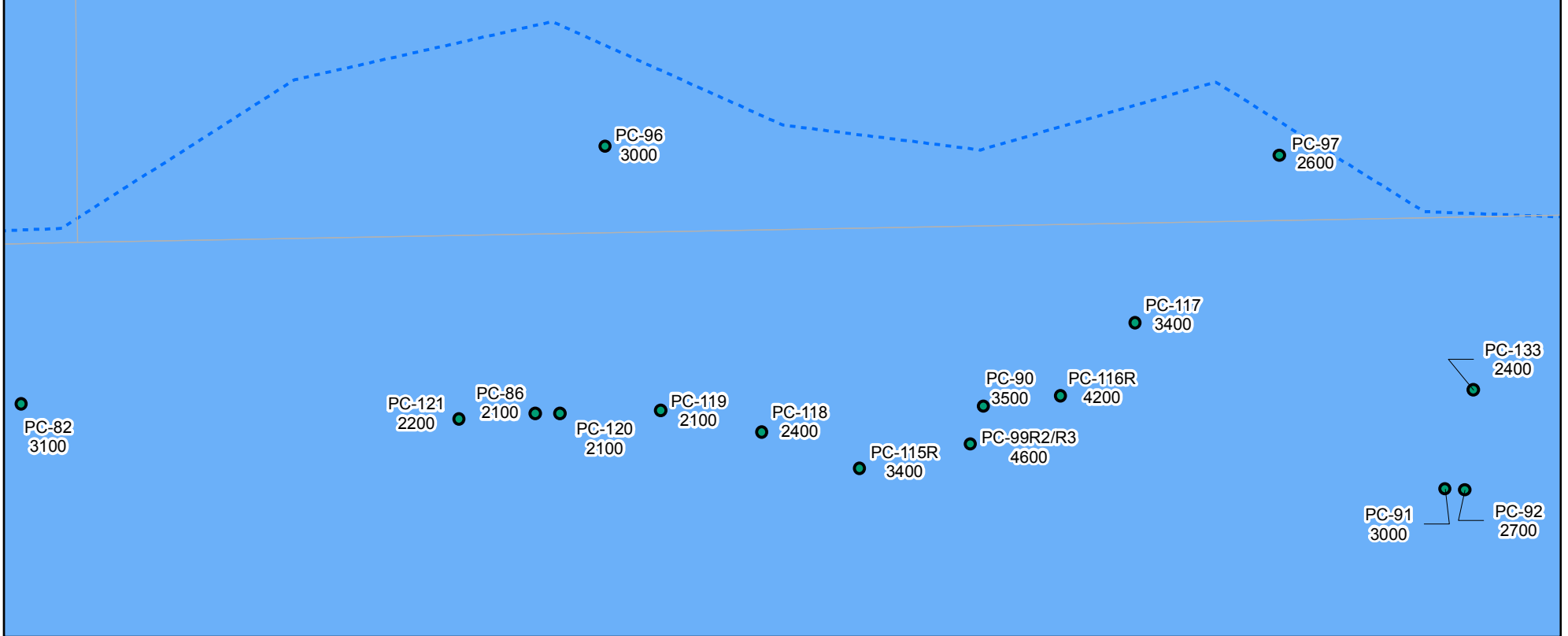
Contract Number: 21-32100H05

Approved by:

Revised:

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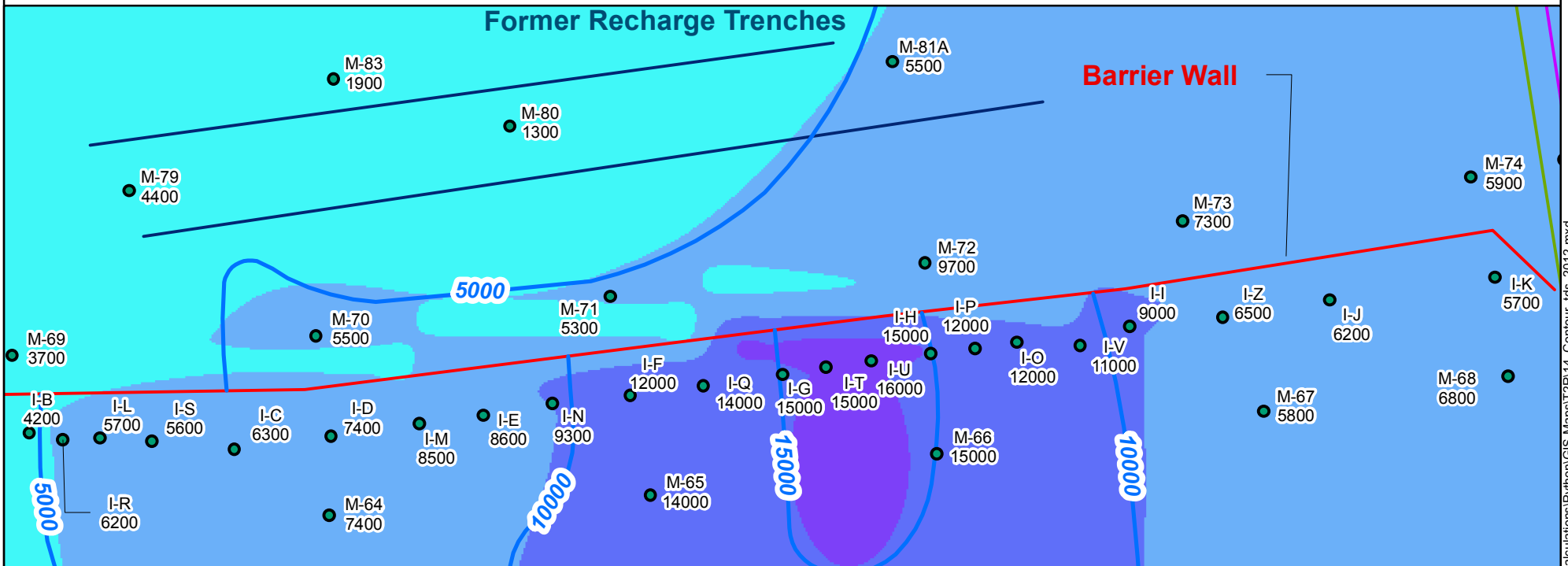
Inset C



Inset B



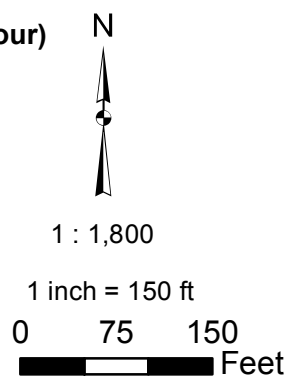
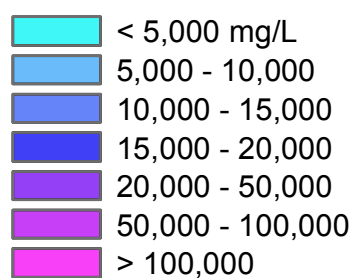
Inset A



LEGEND

- Shallow Water Bearing Zone Well (used in Contouring)
- - - Total Dissolved Solids (TDS) Iso-concentration Line (mg/L) (Dashed where approximate)
- 1700 Total Dissolved Solids (TDS) Concentration (mg/L)
- Plume Mass Estimation Boundary

TDS Interpolated Concentrations for 2012 (Contour)



Grid: State Plane, Nevada East, NAD83, Feet



2200 Powell St., Suite 700, Emeryville, CA 94608

Contour Interpolation of Groundwater TDS (2012)
Nevada Environmental Response Trust Site, Henderson, Nevada

Drafter: EA

Date: 8/29/2013

Contract Number: 21-32100H05

Approved by:

Revised:

Figure
3-7b

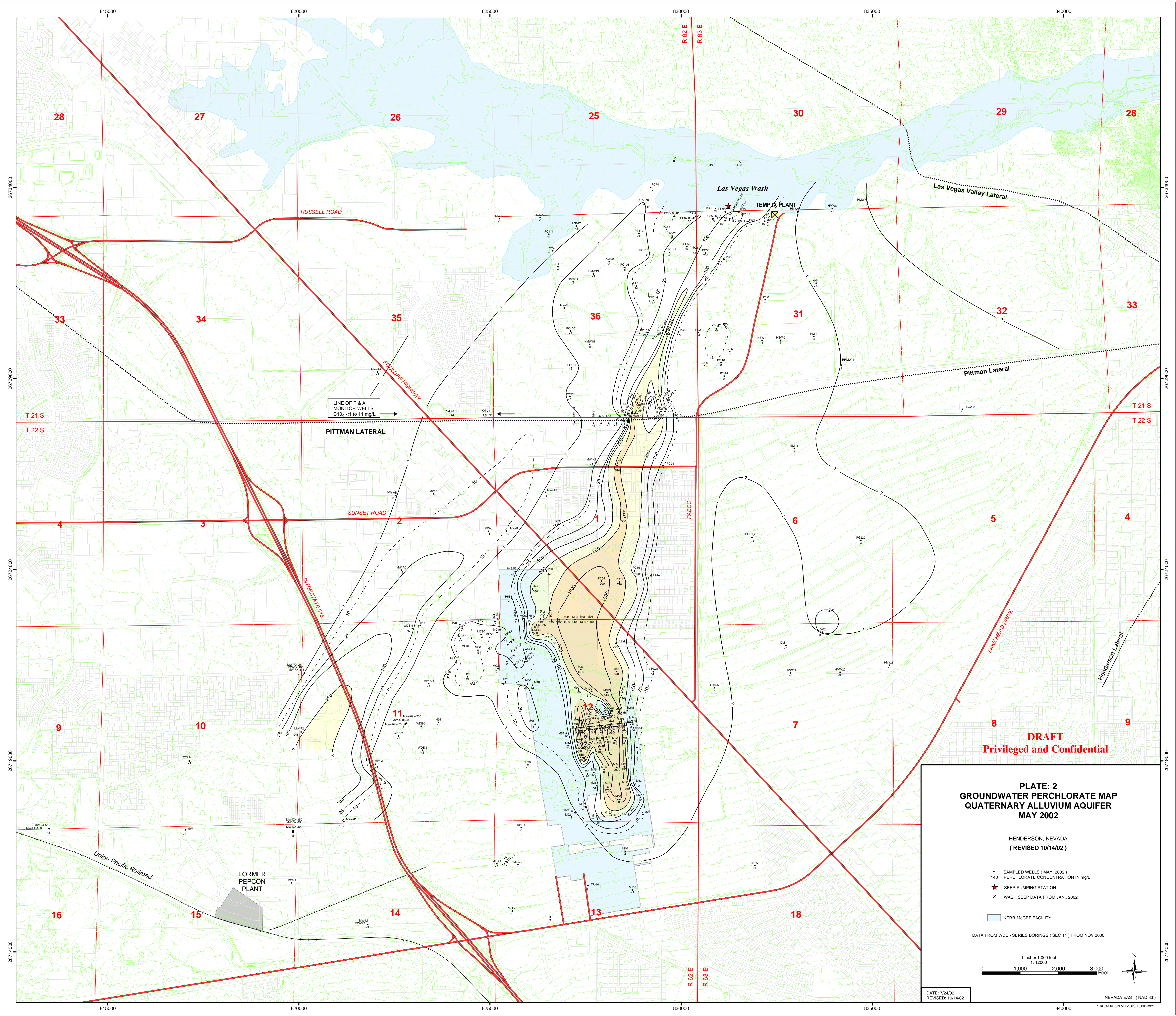
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Attachment 2
Maps Requested by NDEP

Maps Requested by NDEP

The maps in Attachment 2 have been included in response to NDEP's comments dated January 17, 2013 on the 2012 Annual Remedial Performance Report for Chromium and Perchlorate. Specifically, comment 10 requested the submittal of chromium, perchlorate, and TDS isoconcentration plates for the years 2002 and 2006. ENVIRON responded that the maps would be provided, as available, as a one-time submittal.

Within the report, Plate 7a presents perchlorate data from 2002. ENVIRON was able to locate the other requested maps with the exception of the chromium map from 2002. In addition, conductivity measurements, not TDS, were used for contouring in 2002.



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PLATE: 2
GROUNDWATER PERCHLORATE MAP
QUATERNARY ALLUVIUM AQUIFER
MAY 2002

HENDERSON, NEVADA
(REVISED 10/14/02)

- SAMPLED WELLS (MAY, 2002)
- 140 PERCHLORATE CONCENTRATION IN mg/L
- ★ SEEP PUMPING STATION
- × WASH SEEP DATA FROM JAN., 2002

■ KERR-McGEE FACILITY

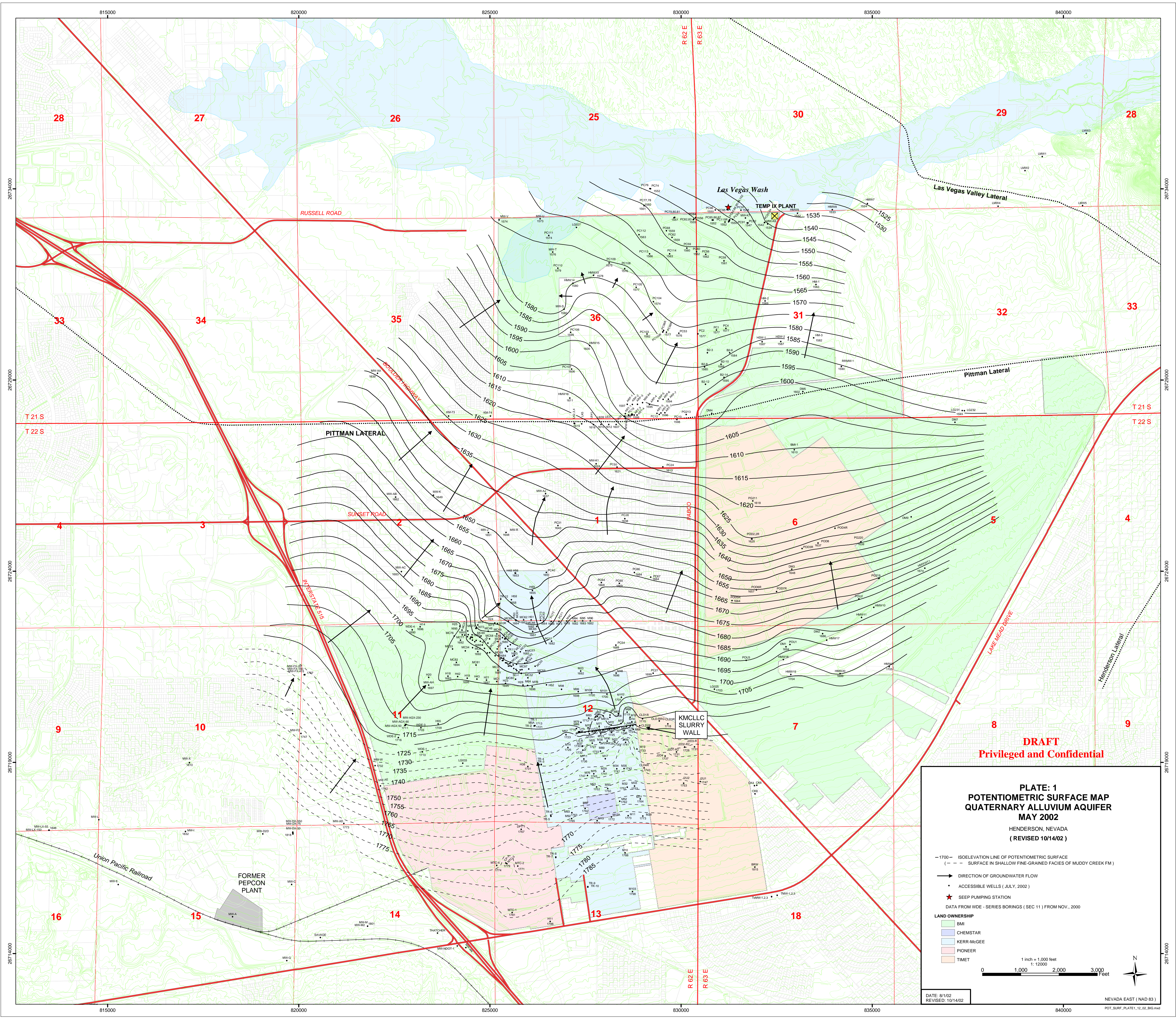
DATA FROM WDE - SERIES BORINGS (SEC 11) FROM NOV 2000

1 inch = 1,000 feet
1:12000

0 1,000 2,000 3,000 Feet

DATE: 7/24/02
REVISED: 10/14/02

NEVADA EAST (NAD 83)



DRAFT
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PLATE: 1
POTENTIOMETRIC SURFACE MAP
QUATERNARY ALLUVIUM AQUIFER
MAY 2002
 HENDERSON, NEVADA
 (REVISED 10/14/02)

- 1700 - ISOELEVATION LINE OF POTENTIOMETRIC SURFACE
 (---) SURFACE IN SHALLOW FINE-GRAINED FACIES OF MUDDY CREEK FM

→ DIRECTION OF GROUNDWATER FLOW
 • ACCESSIBLE WELLS (JULY, 2002)
 ★ SEEP PUMPING STATION

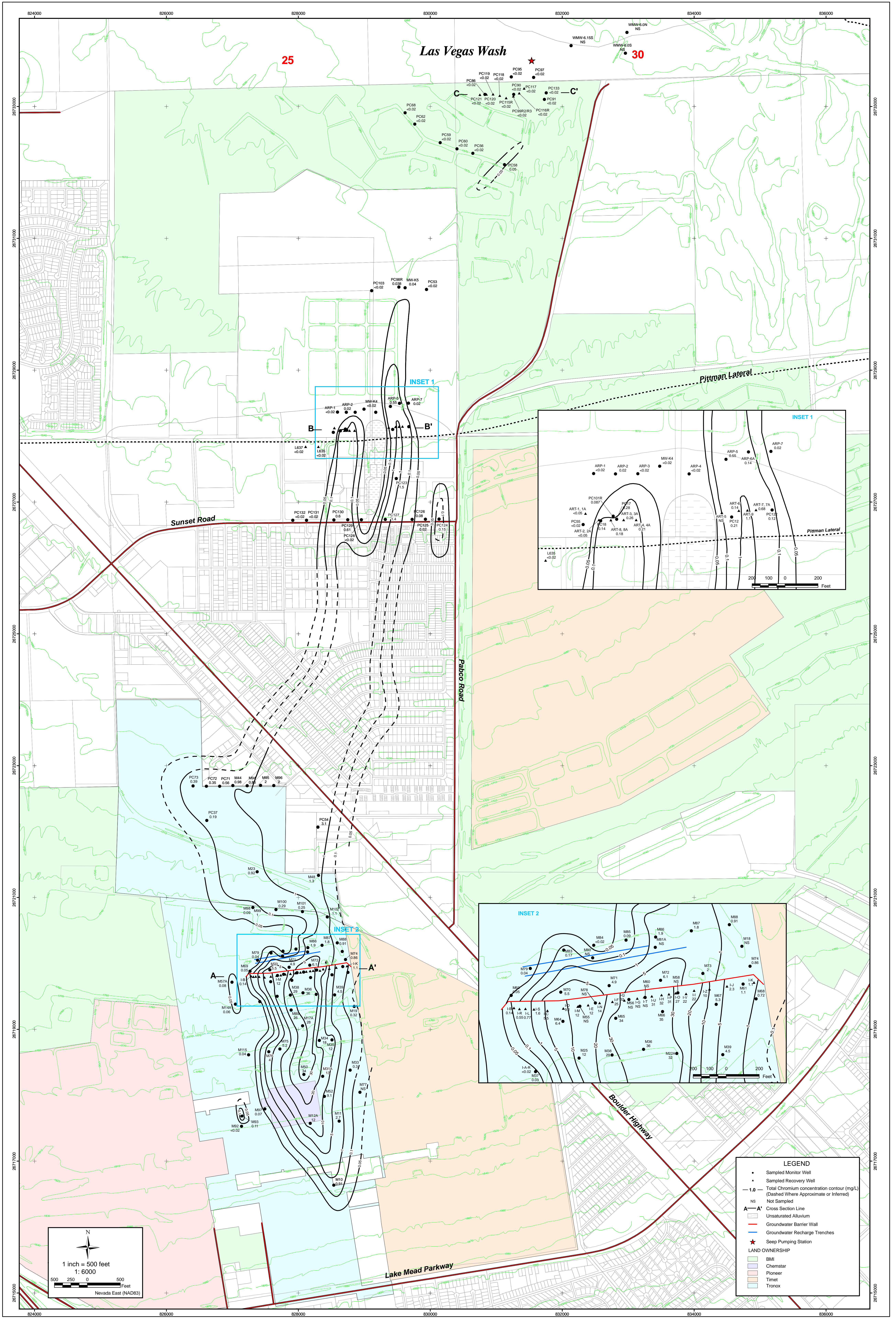
DATA FROM WIDE - SERIES BORINGS (SEC 11) FROM NOV., 2000

LAND OWNERSHIP
 BMI
 CHEMSTAR
 KERR-McGEE
 PIONEER
 TIMET

1 inch = 1,000 feet
 1:12,000
 0 1,000 2,000 3,000 Feet

DATE: 8/1/02
 REVISED: 10/14/02

NEVADA EAST (NAD 83)
POT_SURF_PLATE1_12_02_BMG.mxd



SHEET NUMBER: 1
 PLATE NUMBER: 5

**TOTAL CHROMIUM IN GROUNDWATER:
 TRONOX SITE TO LAS VEGAS WASH
 FOURTH QUARTER 2006**

Semi-Annual Performance Report
 Tronox Facility
 Henderson, Nevada

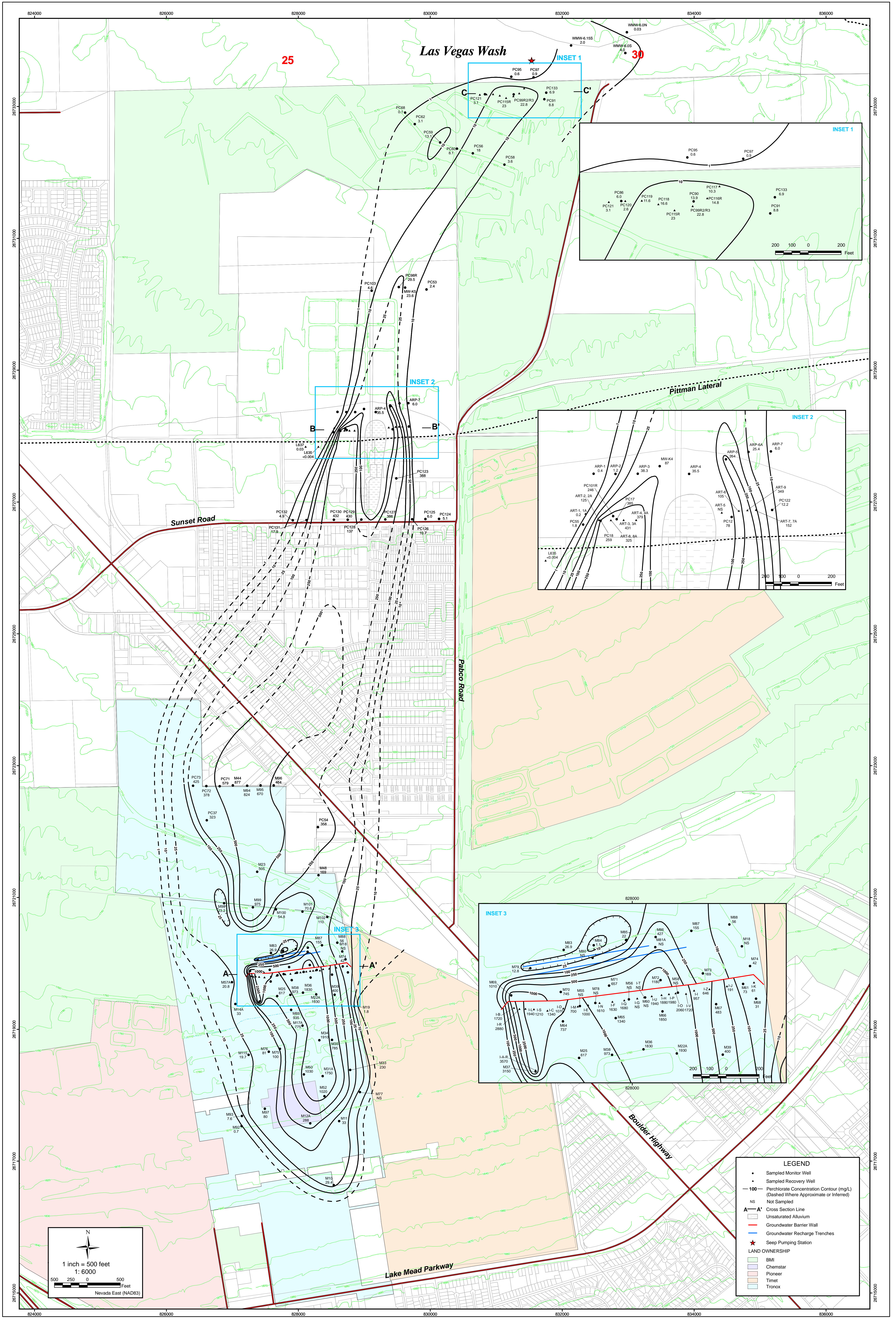
SCALE: 1" = 500'
 DATE: January, 2007
 PROJECT NUMBER: 04020-023-110

ENSR CORPORATION

1220 AVENIDA ACASO
 CAMARILLO, CALIFORNIA 93012
 PHONE: (805) 388-3775
 FAX: (805) 388-3577
 WEB: HTTP://WWW.ENSR.AECOM.COM

DESIGNED BY:	REVISIONS		
T. Reed	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			
M. Scop			
CHECKED BY:			
T. Reed			
APPROVED BY:			
D. Gery			





SHEET NUMBER: 1
 PLATE NUMBER: 6

**PERCHLORATE IN GROUNDWATER:
 TRONOX SITE TO LAS VEGAS WASH
 FOURTH QUARTER 2006**

Semi-Annual Performance Report
 Tronox Facility
 Henderson, Nevada

SCALE: 1" = 500'
 DATE: January, 2007
 PROJECT NUMBER: 04020-023-110

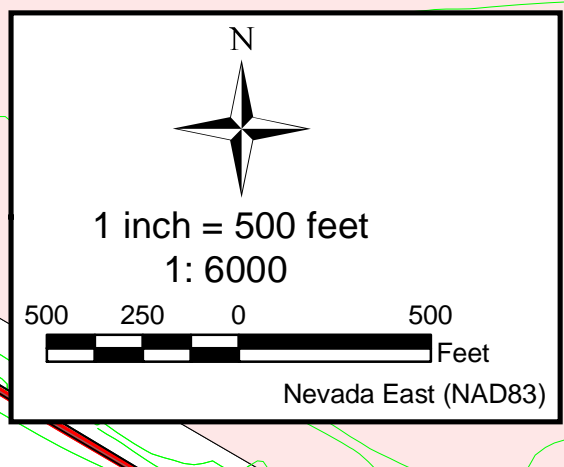
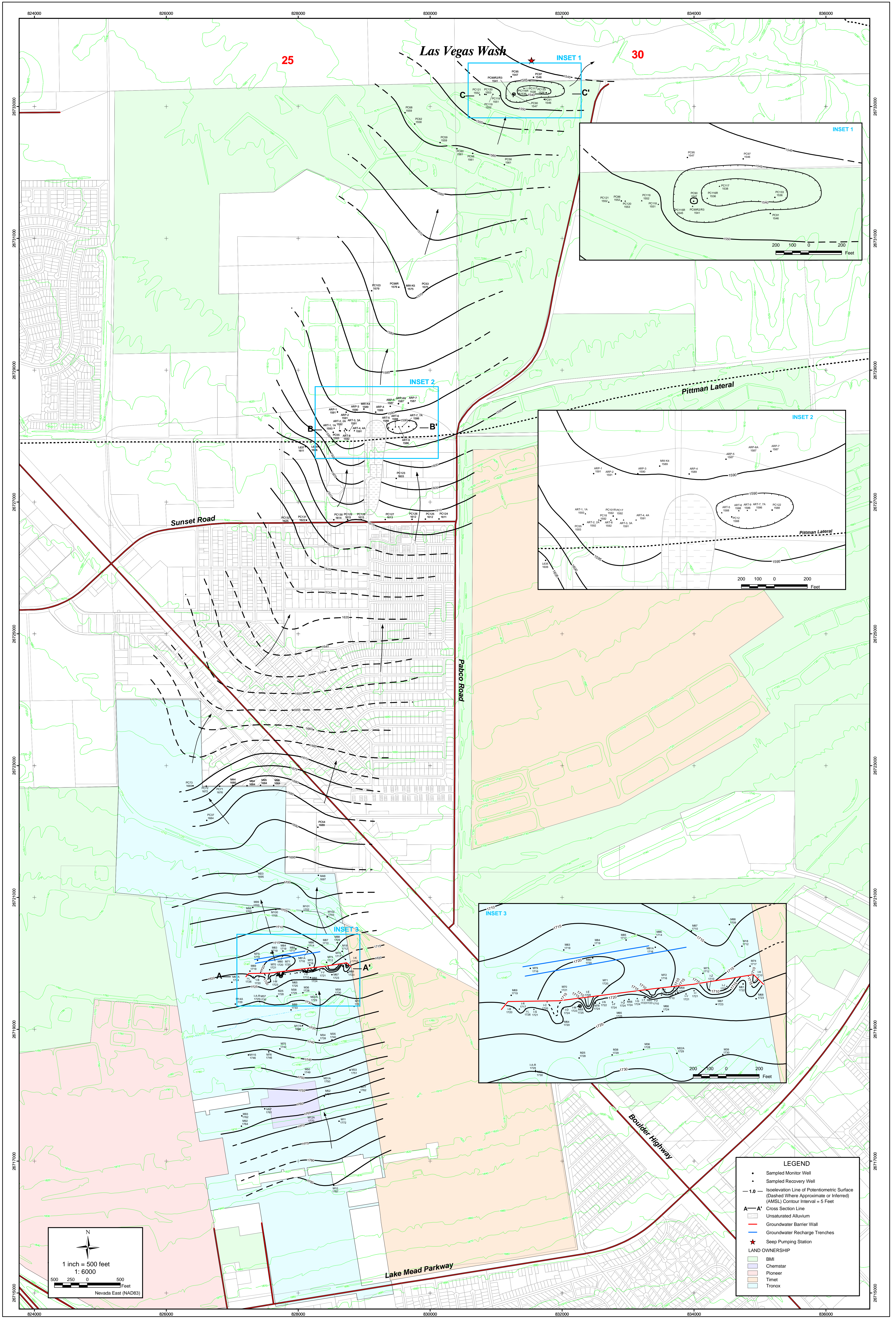
ENSR CORPORATION

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E. Krish	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
M. Scop				
CHECKED BY:				
E. Krish				
APPROVED BY:				
D. Geny				



J:\Tronox\GIS\mxd\contour3_jay-de-06\Plate_6_Perchlorate.mxd



DESIGNED BY:		REVISIONS	
E. Krish	NO.:	DESCRIPTION:	DATE:
DRAWN BY:			BY:
M. Scop			
CHECKED BY:			
E. Krish			
APPROVED BY:			
D. Geny			

SHEET NUMBER: 1

PLATE NUMBER: 1

**POTENTIOMETRIC SURFACE:
TRONOX SITE TO LAS VEGAS WASH
FOURTH QUARTER 2006**

Semi-Annual Performance Report
Tronox Facility
Henderson, Nevada

SCALE: 1" = 500'

DATE: January, 2007

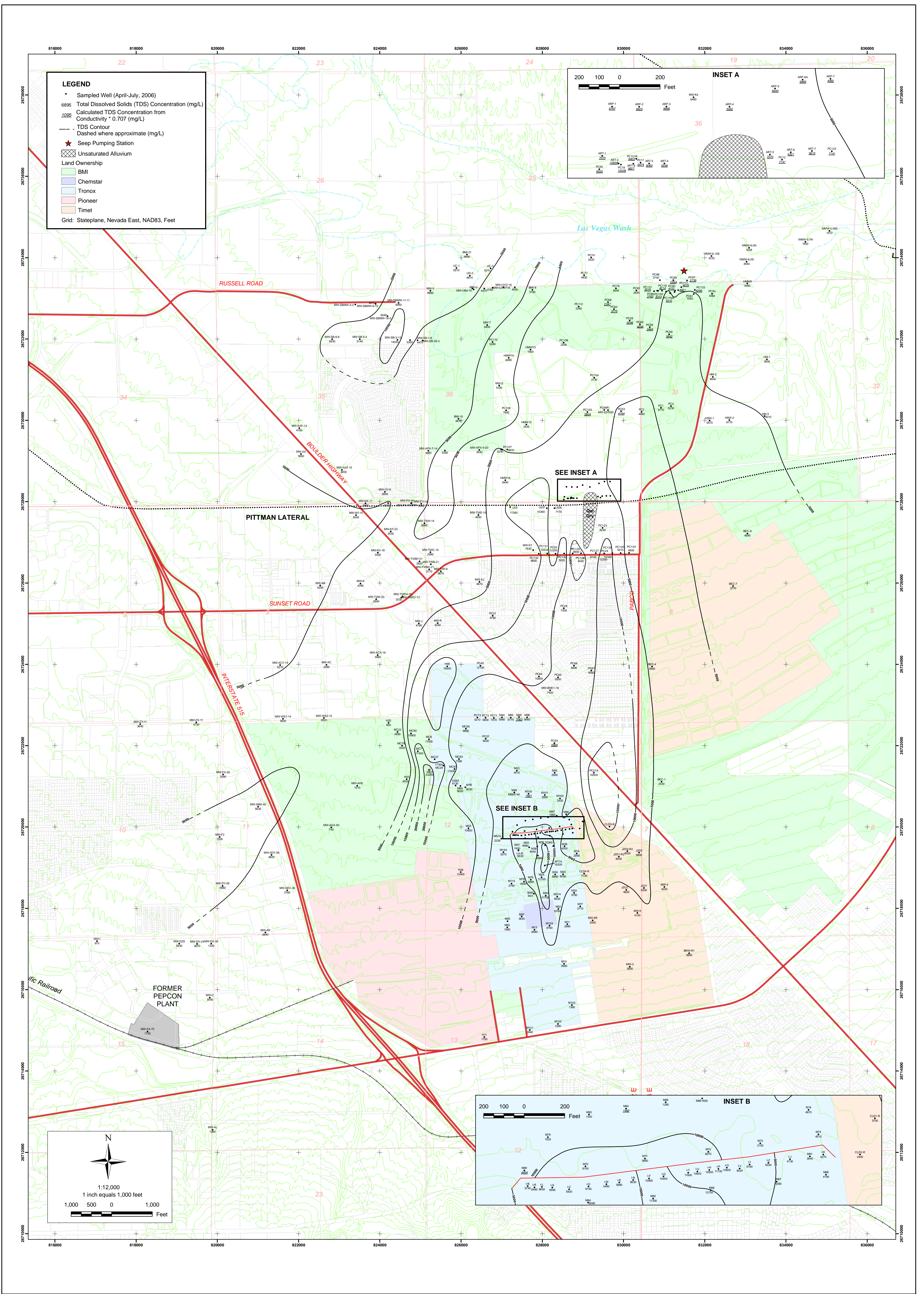
PROJECT NUMBER: 04020-023-110

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TRONOX



SHEET NUMBER: 1

FIGURE NUMBER: 3

GROUNDWATER TOTAL DISSOLVED SOLIDS MAP
QUATERNARY ALLUVIUM AQUIFER
SECOND QUARTER 2006
 ANNUAL REPORT
 TRONOX FACILITY
 HENDERSON, NEVADA

SCALE: 1:12,000 DATE: January, 2007 PROJECT NUMBER: 04020-023-1151

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E. Krish	NO.:	DESCRIPTION:	DATE:	BY:
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T. McAdam				
CHECKED BY:				
E. Krish				
APPROVED BY:				
D. Gerry				

