



**REVIEWED**

By Mike Buchanan at 3:01 pm, Sep 20, 2024

## SITE CHRONOLOGY AND STATUS UPDATE

SCRIPP PIT (AP-25)  
NAUTOFAB000640  
UNIT M, SECTION 26, TOWNSHIP 18S, RANGE 26E  
EDDY COUNTY, NEW MEXICO  
32.713408, -104.342746  
RANGER REFERENCE NO. 5375

Review of the Annual Groundwater Monitoring Report (09.14.2023) for Scripp Pit (AP-25): accepted for the record and site is currently under review; a meeting is currently being scheduled between OCD and EOG to discuss a work plan and path forward for the site.

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- Attachment 1 – Soil Boring Logs
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- Attachment 3 – Laboratory Analytical Reports (2005 – 2022)



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## **1.0 SITE LOCATION AND BACKGROUND**

The Scripp Pit (Site) is a historic oil and gas production pit formerly located at the Scripp Battery, an oil and gas production facility located on private land, approximately 9.44 miles south-southwest of Artesia, within Eddy County, New Mexico. The Site is situated in Unit M, Section 26, T18S-R26E at GPS coordinates 32.713408, -104.342746. The Scripp Battery is currently active and is being operated by Silverback Operating II (Silverback). Based on the site history and transaction history, EOG Resources, Inc. (EOG) maintains environmental responsibility for the impacts to native media at the Site.

The Scripp Battery was historically operated by H&S Oil Company (H&S) and an unlined earthen pit was formerly utilized by H&S for oil and gas fluid storage/impoundment. In 1997, Yates Petroleum Corporation (Yates) acquired the Scripp Battery and associated pit from H&S. While operated by Yates, the pit underwent closure and assessment of the former pit location was conducted. The pit closure and assessment activities completed by Yates documented impacts to the native media. Due to the documented conditions at the Site, coordination with the New Mexico Oil and Gas Division (NMOCD) was initiated. In September 2016, EOG acquired Yates and its associated assets including the Scripp Battery which included the subject Scripp Pit.

Communication and coordination between the NMOCD and Yates regarding the subject pit continued until 2005 when a Stage I & II Abatement Plan was submitted to the NMOCD. Based on available information, no response was ever received from the NMOCD regarding this plan. During the 2005 to 2022 timeframe, a total of 13 groundwater monitoring events were conducted at the Site. During May 2021, additional soil investigation activities were completed at the Site.

EOG has engaged Ranger Environmental Services, LLC (Ranger) to assist in the continuation of the assessment and remediation efforts at the Site as well as to re-establish communications with the NMOCD regarding the Site. In May 2023, Ranger personnel established communications with the NMOCD, and began discussion of the Site and the steps needed to bring the Site into compliance with the current regulatory criteria and New Mexico Administrative Code (NMAC).

Based on Ranger's communications with the NMOCD, the following *Site Chronology and Status Update* has been prepared to provide the NMOCD with a summary of the Site history and the cumulative soil and groundwater data so that a regulatory path forward can be established.

A *Topographic Map* and *Area Map* noting the location of the subject Site and surrounding areas are attached. A *Site Map* depicting the pertinent site features is also attached.

## 2.0 SITE CHRONOLOGY (1998 – 2005)

Below is a chronology of the activities undertaken at the Site during the timeframe of 1998 through 2005. The information presented below is derived from the proposals, work plans, and other correspondence available to Ranger. All information presented in this section is available via the NMOCD online imaging portal (<https://ocdimage.emnrd.nm.gov/imaging/>).

### 2.1 Yates Acquisition and Pit Closure (1997 – 2000)

As previously stated, Yates acquired the Scripp Battery and subject Scripp Pit from H&S in 1997. At the time of the acquisition, the subject pit remained open and was documented to have dimensions of approximately 90 feet by 65 feet by 10 feet deep. The pit was noted to be of earthen construction with no liner present. Under Yates' direction, an undated "*Pit Closure*" proposal was submitted to the NMOCD. In June 1998, the NMOCD approved of the proposed closure activities, with conditions of approval that included the vertical delineation of the soil conditions at the Site and directives for sample analysis.

In May 1998, Bioremediation Contractors & Consultants, Inc. (BCC) initiated closure of the pits. The activities completed by BCC included the removal of bird netting, debris, and fluids within the pit location. The pit was then ripped, tilled, sprayed with a BCC microbial product, treated with nutrients, and was then managed to assist in the bioremedial process. Soil samples were collected in September 1999 and January 2000 and the pit was subsequently backfilled.

In February 2000, a closure report/request was submitted to the NMOCD. In August 2000, the NMOCD denied the closure request citing lack of pertinent closure details, inadequate soil sampling, and lack of soil chloride analyses.

### 2.2 Additional Assessment Activities and Stage I & II Abatement Plans (2000 – 2005)

In October 2000, Yates contracted Environmental Technology Group, Inc. (ETGI) to perform additional soil delineation activities at the Site. On October 20, 2000, ETGI and a drilling subcontractor installed two soil borings at the Site. During the installation process multiple soil samples and a groundwater sample (from boring SB-2) were collected for laboratory analysis. Additionally, a background sample was collected from a location outside of the apparent impacted areas at the Site.

Elevated soil chloride concentrations were documented to be present in both soil borings completed at the site. The groundwater sample, collected from soil boring SB-2, was noted to contain elevated benzene and chloride concentrations.

The findings of the October 2000 site assessment activities were documented in the ETGI-prepared *Preliminary Site Investigation Report* dated November 2000. In December 2000, Yates submitted the ETGI report and previous BCC report to the NMOCD and petitioned for site closure. On March 7, 2001, the NMOCD denied site closure due to the fact that the groundwater contained benzene and chloride concentrations in excess of the New Mexico Water Quality Commission (WQCC) standards. The NMOCD directed that an abatement plan for the site be prepared and submitted to the NMOCD.

In July 2001, a *Stage 1 Abatement Plan Proposal* prepared by Harding ESE (Harding) was submitted to the NMOCD. The proposal included provisions for the installation and sampling of three soil borings and the conversion of the soil borings into permanent monitor wells to allow for



the collection of representative groundwater samples for laboratory analysis. On September 25, 2001, the NMOCD responded to the proposal with the statement that the plans were “*administratively complete*” and that prior to the NMOCD review of the proposed activities public notification was to be completed.

On October 19, 2001, Yates submitted documentation of the required public notification to the NMOCD with the request that the Harding-prepared *Stage 1 Abatement Plan Proposal* be reviewed. On February 1, 2002, the NMOCD granted approval of the proposed activities with conditions of approval including the requirement that a Stage I Investigation report be submitted to the NMOCD by April 1, 2002. Due to various reasons, including the transfer of the project from Harding back to ETGI, multiple project timeline extension requests were submitted and approved by the NMOCD.

A June 2003 ETGI-prepared *Preliminary Site Investigation Report*, documenting the installation and sampling of four monitor wells, was subsequently submitted to the NMOCD. The information provided in the report confirmed that impacts to soil and groundwater were present at the Site. Soils containing elevated chloride concentrations were documented in all four soil borings completed at the Site. Elevated benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbon (TPH) concentrations were documented during the installation of monitor well MW-4. Groundwater samples collected from monitor wells MW-1, MW-2 and MW-3 were documented to contain nondetectable BTEX concentrations. However, the groundwater sample collected from monitor well MW-4 was documented to contain benzene at a concentration in exceedance of the applicable WQCC standard. The groundwater samples collected from all four monitor wells were documented to contain chloride at concentrations in excess of the applicable WQCC standards. The groundwater samples collected from all four monitor wells were also documented to contain total dissolved solids (TDS) concentrations greater than 10,000 milligrams per liter (mg/L). Within the report ETGI highlighted that due to the elevated TDS concentrations “*the shallow aquifer is not considered to be of foreseeable beneficial use.*” Based on this information, ETGI proposed that site specific risk-based closure criteria be established, a long-term groundwater monitoring plan be implemented, and that the site be deed restricted to prevent unintended human exposure.

Based on the information presented in the June 2003 ETGI report, the NMOCD issued a response dated October 6, 2004. The NMOCD response stated that the extent of the groundwater impacts at the Site had not been delineated and requested that a groundwater delineation work plan be submitted by December 31, 2004. Prior to the submittal of the NMOCD-directed plan, ETGI was replaced by Safety & Environmental Solutions, Inc. (SESI) who had been retained by Yates to conduct the additional site investigative activities. During the transfer of the project from ETGI to SESI, a 45-day extension request was submitted and approved by the NMOCD to allow for the project transition.

In February 2005, an SESI-prepared *Amended Stage 1 Abatement Plan Proposal*, dated February 15, 2005, was submitted to the NMOCD. The amended plan included a summary of SESI’s review of the previously collected Site data and conditions and a proposal for additional site investigation activities. The proposed site activities included the resurveying of the existing monitor wells and the installation of two additional monitor wells, one in an undisturbed area located upgradient from the former pit area and one in a downgradient location. The plan also proposed the plugging of monitor well MW-4 located within the footprint of the historic pit. SESI detailed the concern that MW-4 was acting as a pathway for the vertical migration of contaminants.

On July 18, 2005, the NMOCD responded to SESI's *Amended Stage 1 Abatement Plan Proposal* and denied the proposed activities. The NMOCD response cited a lack of adequate characterization of the impacts at the Site, insufficient proposed delineation locations, lack of required water sample analysis for WQCC metals, and lack of proposed remedial actions to address the documented impacts. Additionally, the proposed plugging of monitor well MW-4 was denied. The NMOCD requested submittal of a revised Stage 1 Abatement Plan by August 19, 2005.

As requested by the NMOCD, an *Amended Stage 1 Abatement Plan Proposal*, prepared by SESI and dated August 19, 2005, was subsequently submitted to the NMOCD. The updated plan revisited the information presented in the February 15, 2005 version and proposed additional site activities to address the NMOCD concerns and requests. The plan proposed four soil borings (with the possibility for additional borings, if needed) to be installed in the pit interior to assist in the characterization/delineation of the soil impacts. The plan also included provisions for the installation of a minimum of two additional monitor wells. Additional proposed activities included the determination of hydraulic conductivity and transmissivity via groundwater slug tests and the continued monitoring and sampling of the Site monitor wells.

Based on available information, it does not appear that the NMOCD ever replied to SESI's August 19, 2005 *Amended Stage 1 Abatement Plan Proposal*. The final correspondence available via the NMOCD online resources is noted to be a cover letter that appears to have been submitted with the August 19, 2005 amended plan. EOG also conducted an internal review of the project files transferred to them by Yates and an NMOCD response to the August 19, 2005 plan was not discovered.

### **3.0 GROUNDWATER MONITORING AND SITE ASSESSMENT (2005-PRESENT)**

#### **3.1 Groundwater Monitoring**

Between 2005 and 2022, a total of 13 groundwater monitoring events were conducted at the Site. No light nonaqueous phase liquid (LNAPL) was detected in the site monitoring wells. The groundwater analytical data primarily documented elevated chloride, sulfate and TDS concentrations in exceedance of the applicable WQCC standards in all four monitor wells. Monitor well MW-4, located within the former pit boundaries, was documented to contain low levels of benzene in exceedance of the applicable WQCC standard. Additionally, various elevated metals concentrations were documented in all four monitor wells, and elevated nitrate concentrations were detected in upgradient/cross-gradient monitor well MW-1.

With the current site monitor well configuration, it is difficult to discern if the elevated chloride and TDS concentrations are related to the former pit operations, background conditions, and/or another source area to the east of the pit. On multiple occasions, such as on March 28, 2018, March 11, 2019, and September 18, 2020, upgradient to cross-gradient monitor well MW-1 was found to contain the highest site TDS and chloride concentrations, a condition that does not comport with that which would be expected if these constituents were from historic releases from the former pit. On other sampling dates, however, the site TDS and chloride data are suggestive of impacts from the historic pit operations. In summary, additional monitor well installation and sampling activities will be required to enable a more thorough evaluation of the site groundwater conditions.

Ranger has compiled and attached cumulative tables of the Site well gauging and groundwater analytical data. Copies of the laboratory analytical reports are also attached. To assist in the evaluation of the site data, Ranger prepared the attached groundwater gradient and isoconcentration maps. Below is a brief summary of the groundwater monitoring results to date.

### Well Gauging

As summarized above, no LNAPL has been documented to be present in the site monitoring wells. The depth to groundwater in the site monitoring wells has been documented to range from approximately 34.61' - 42.90' below top-of-casing (btoc). As illustrated on the attached groundwater gradient maps, the site groundwater gradient has ranged from approximately 0.003 - 0.008 ft/ft with groundwater flow predominantly to the west and southwest, and minor flow to the northwest.

### Groundwater Anions

Concentrations of chloride and sulfate above the NMAC 20.6.2.3103 criteria were documented in every sample collected from the four site monitoring wells. As discussed above, with the current site monitor well configuration, it is difficult to discern if the elevated chloride concentrations are related to the former pit operations, background conditions, and/or another source area to the east of the pit. On multiple occasions, such as on March 28, 2018, March 11, 2019, and September 18, 2020, upgradient to cross-gradient monitor well MW-1 was found to contain the highest site chloride concentration, a condition that does not comport with that which would be expected if these constituents were from historic releases from the former pit. On other sampling dates, however, the site chloride data are suggestive of impacts from the historic pit operations. In summary, additional monitor well installation and sampling activities will be required to enable a more thorough evaluation of the site groundwater conditions.

As illustrated on the attached sulfate isoconcentration maps, there are no obvious indications of impacts related to the historic pit operations. The wells with the highest sulfate concentrations (MW-1 and MW-2) are located outside of the pit. The pit does not appear to be a source area for the sulfate in the groundwater. The sulfate concentrations in the monitoring well network show decreasing concentrations in variable directions (to the west, east and northeast) on the varying sample dates which does not comport with that which would be expected from a historic release from the pit.

Elevated Nitrate+Nitrite (as N) concentrations have been documented in the samples collected from upgradient to cross-gradient monitor well MW-1 during the last six sampling events. Again, this does not appear to be an issue related to the former pit operations. The groundwater sample collected from monitor well MW-4 during the May 17, 2012 sampling event was reported to contain a fluoride concentration slightly in exceedance of the WQCC criteria. No fluoride exceedances have been observed in this well since then.

### Dissolved Metals

Based upon available information, groundwater dissolved metals analyses were initiated at the site during the March 2012 sampling event. Elevated concentrations of various dissolved metals have subsequently been documented in all four monitor wells. Monitor well MW-1 has been documented to contain slightly elevated concentrations of selenium and uranium in the more recent sampling events. Isolated exceedances of silver and/or arsenic were also found in MW-1 during the June 2013 and March 2018 sampling events.



Monitor well MW-2 was documented to contain exceedances of arsenic and/or selenium during the sampling events conducted in 2013 and 2018; however, these COCs have been within the WQCC standards since then. MW-3 was documented to contain exceedances of arsenic and/or manganese in sampling events conducted in 2013 and 2018; however, these COCs have been within the WQCC standards since then. Monitor well MW-4 has been documented to contain slightly elevated concentrations of boron and/or manganese since the 2013 to 2020 timeframe. Between 2012 to 2019 this well was also occasionally found to contain elevated concentrations of other metals including beryllium, silver, arsenic, mercury, and selenium.

In summary, while there have been elevated concentrations of various metals in the site monitoring well network over time, there have been no clear indications of metals impacts due to the historic pit operations. The majority of the metals exceedances have been found in upgradient to cross-gradient monitor well MW-1, and in pit monitor well MW-4. The WQCC standard exceedances in monitor well MW-1 have been primarily related to selenium and uranium, while the WQCC standard exceedances in monitor well MW-4 have been primarily related to manganese and boron. In general, the pattern and concentrations of the metals exceedances do not point to an obvious release source area.

### VOCs

No volatile organic compounds (VOCs) have been detected in the site monitoring wells in exceedance of the WQCC standards except for benzene in pit monitor well MW-4. Benzene has been detected in this well in exceedance of the WQCC standard during 12 out of the 15 sampling events conducted since 2002. The benzene concentrations in this well have ranged from a low of 0.0017 mg/L (in 2021) to a high of 0.069 mg/L (during the initial sampling event in 2002). Overall, the benzene concentrations in monitor well MW-4 are suggestive of a stable to declining plume condition. Based upon the available data, the benzene impacts in MW-4 appear to be related to the historic pit operations. During the drilling and sampling of MW-4, elevated soil TPH impacts were documented to a depth of 20 feet below ground surface (bgs), and significantly elevated PID readings were observed to a depth of at least 25 feet bgs.

### Specific Conductance, pH, Alkalinity, and TDS

Concentrations of total dissolved solids (TDS) above the NMAC 20.6.2.3103 criteria have been documented in every sample collected from the four site monitoring wells. As discussed above, with the current site monitor well configuration, it is difficult to discern if the elevated TDS concentrations are related to the former pit operations, background conditions, and/or another source area to the east of the pit. On multiple occasions, such as on March 28, 2018, March 11, 2019, and September 18, 2020, upgradient to cross-gradient monitor well MW-1 was found to contain the highest site TDS concentration, a condition that does not comport with that which would be expected if these constituents were from historic releases from the former pit. On other sampling dates, however, the site TDS data are suggestive of impacts from the historic pit operations. In summary, additional monitor well installation and sampling activities will be required to enable a more thorough evaluation of the site groundwater conditions.

### Summary

In summary, the historic pit operations do appear to have resulted in a low-level benzene impact to the groundwater immediately underlying the former pit area. Based upon the available data and the current site monitor well configuration, it is difficult to discern if the elevated chloride and TDS concentrations at the site are related to the former pit operations, background conditions,



and/or another source area to the east of the pit. There are no clear indications that the remainder of the site COC exceedances of the WQCC standards are related to the historic pit operations. The overall water quality data are suggestive of naturally occurring brackish water. Further site investigation activities are needed to more thoroughly evaluate the site groundwater conditions.

### **3.2 2021 SESI Soil Investigation**

In May 2021, additional soil investigation activities were completed at the Site by SESI. SESI installed a total of 59 test excavations, collected a total of 115 samples for field screening, and submitted a total of 32 soil samples to the laboratory for analysis. The attached "*May 2021 Soil Sample Location Map*" illustrates the soil sampling locations. One sample location (Map ID #59) was completed approximately 300 feet to the northwest of the former pit in an area believed to be representative of background conditions. The test excavations were installed to depths ranging from 4' to 8' bgs. The attached "*Soil TPH, BTEX & Chloride Data Summary*" table provides a summary of the soil analytical results from this investigation. Also attached are copies of the laboratory analytical reports.

As presented in the attached soil analytical table, SESI's soil investigation activities documented exceedances of the 19.15.29.12 NMAC *Table 1 Closure Criteria for Soils Impacted by a Release* ( $GW \leq 50'$ ) for TPH and chloride. Based on the soil sample laboratory analytical results and field readings collected by SESI representatives, the extent of the elevated chloride and TPH concentrations was not defined during the May 2021 soil investigation. The two soil samples collected at the "*Background*" location were documented to contain chloride concentrations ranging from 720 - 900 mg/Kg, potentially indicating that naturally occurring elevated chloride concentrations are present in the site vicinity. Based on this information, further evaluation of the site background conditions appears warranted.

## **4.0 SUBSEQUENT SITE INCIDENTS**

During review of available files for the Site and during site inspections conducted by Ranger, information and evidence of multiple recent releases were discovered. Details regarding the releases are included below.

### **4.1 October 16, 2020 Release (NMOCD ID #nRM2030860417)**

On October 16, 2020, a release was discovered at the Scripps Battery by representatives of EOG. Due to a transfer pump failure, a produced water tank was over-filled resulting in the release of approximately seven barrels (bbls) of produced water. Initial response efforts were successful in the recovery of approximately three bbls of produced water. The release is noted to have occurred immediately south of the subject historic production pit location.

To address the impacts at the Site, the subject tank was removed from the area and soil removal operations were initiated. Upon completion of the initial soil removal operations, confirmation sampling activities were completed by representatives of GHD Services Inc. (GHD). Based on the sample results, a GHD-prepared *Site Characterization and Remediation Plan* dated February 10, 2021 was submitted to the NMOCD. The plan called for additional soil removal and confirmation sampling activities to be completed along the eastern excavation side wall. The proposal included the installation of a 20-mil synthetic liner in the base of the excavation area. On June 30, 2021, the NMOCD approved the remediation plan for the incident. The NMOCD





response included the conditions of approval stating that the excavation sidewalls be completed to boundaries within 600 mg/kg chloride and 100 mg/kg TPH.

Due to the presence of the subject historic Scripps Production Pit, located immediately north of the excavated area, completion of the excavation boundaries to the concentrations included in the NMOCD conditions of approval would not be possible without the excavation efforts extending into the former pit. In order to limit the disturbance in the former pit area, a Talon LPE-prepared *Workplan Addendum* dated April 20, 2023 was submitted to the NMOCD. The workplan addendum proposed that excavation be limited to approximately 10 feet outside of the battery on the north and western walls. The amendment also reviewed the variance request for the utilization of a 20-mil synthetic liner in the base of the excavation area.

As of August 2023, a response from the NMOCD in regard to the *Workplan Addendum* dated April 20, 2023 is still pending.

#### **4.2 October 30, 2022 Release (NMOCD ID# nAPP2230460513)**

Based on information available via NMOCD online resources, a release occurred at the Site on October 30, 2022. The information regarding the release is limited to an initial Form C-141, completed and submitted by representatives of Silverback. The Initial Form C-141 detailed the incident as a failure in a tank inlet flow line resulting in the release of an unknown volume. While the volume of the released fluids is unknown, the initial C-141 details that approximately 150 bbls of produced water were recovered via vacuum truck. The release location information supplied in the initial C-141 indicate that the incident occurred approximately 70 feet northeast of monitor well MW-1 (and approximately 100 feet southeast of the former pit) at approximate GPS coordinates 32.713228, -104.342339.

Due to the limited available information regarding the incident, the extent of the subsurface impacts associated with this release is currently unknown to EOG. Since the release occurred in such close proximity to the former pit, the future site data from this release incident should be carefully reviewed and, if necessary, considered in the development of the remedial strategy for the former pit.

#### **4.3 Ranger Observed Surficial Impacts**

During site inspections completed by Ranger personnel on May 2, 2023, and August 8, 2023, an area of visually impacted soil surrounded by fencing was observed at the Site. The observed area of visual impact was located at approximate GPS coordinates 32.712905, -104.342439, approximately 75 feet southeast of monitor well MW-1. In review of the available NMOCD online information, the area observed by Ranger is potentially associated with the October 30, 2022 release (NMOCD ID# nAPP2230460513), detailed above. However, due to the limited information pertaining to this release, the source of the visually impacted soils is currently unknown.

### **5.0 CURRENT SITE COMMUNICATIONS AND CORRESPONDENCE**

In 2023, EOG engaged Ranger to assist in the continuation of the assessment and remediation efforts at the Site, as well as to re-establish communications with the NMOCD regarding the Site. In May 2023, Ranger personnel participated in a conference call with Mr. Nelson Velez of the NMOCD regarding the subject site. The call included a review of the Site history, the presentation





of data collected since 2005, review of the current status of the Site, and a discussion of the appropriate regulatory path forward. It was agreed this report would be prepared to assist the NMOCD in determining the appropriate path forward for the Site.

## **6.0 REGULATORY GUIDANCE REQUEST**

In a desire to properly address the documented soil and groundwater impacts at the Site and bring the Site into compliance with current regulatory guidelines, EOG respectfully requests NMOCD guidance regarding the appropriate regulatory reporting/proposal format that will be required for the next phase of site activities. The obvious steps needed to move the project forward are to complete the delineation of the soil and groundwater impacts, determine the appropriate COCs for future soil and groundwater analyses, determine the site background conditions, continue groundwater monitoring, etc. Upon NMOCD determination of the appropriate regulatory mechanism and reporting format for the next phase of site work, Ranger will prepare a detailed work plan for NMOCD review.

## FIGURES

Topographic Map

Area Map

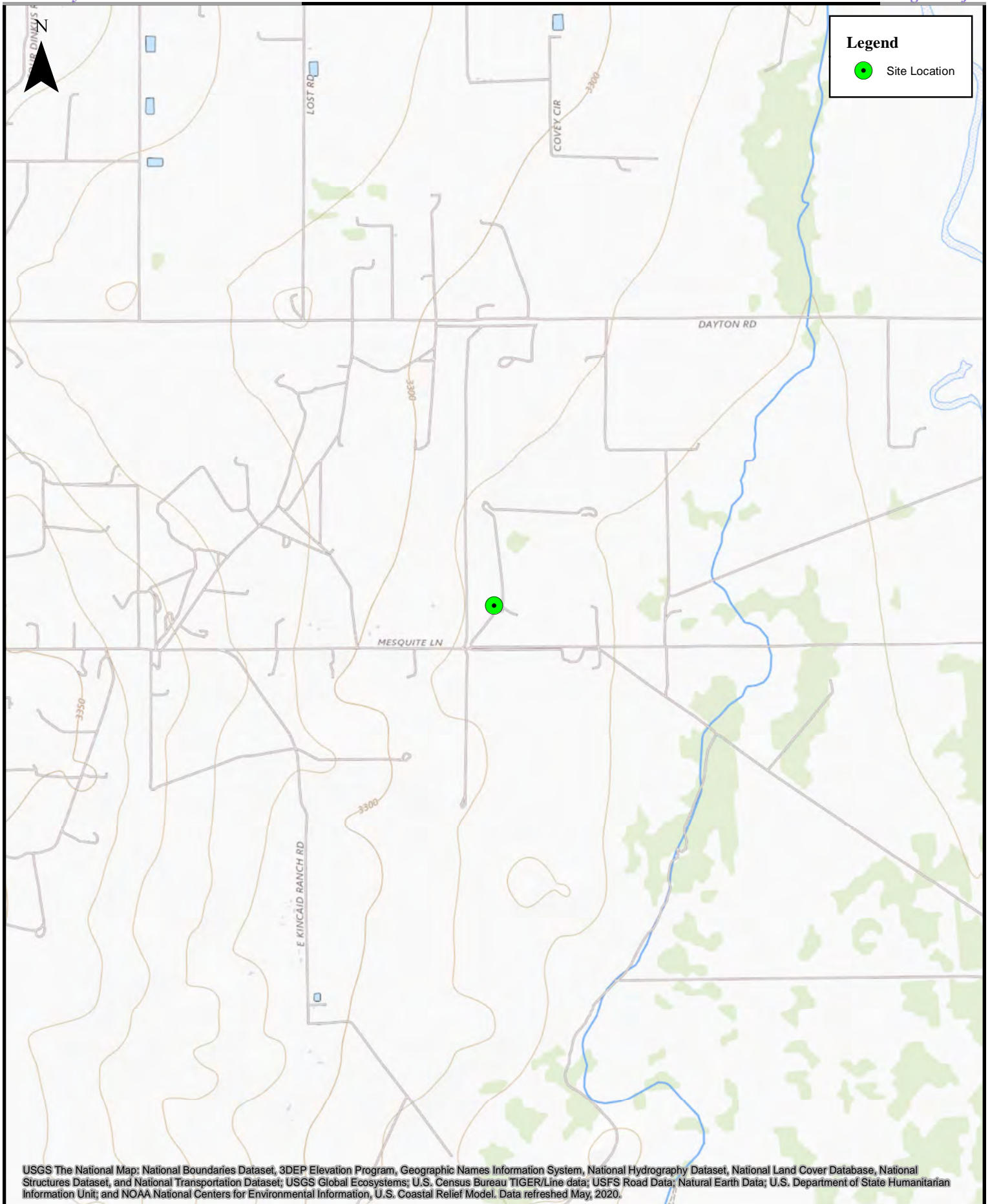
Site Map


Groundwater Gradient Maps (2002 – 2021)

Groundwater Isoconcentration Maps May

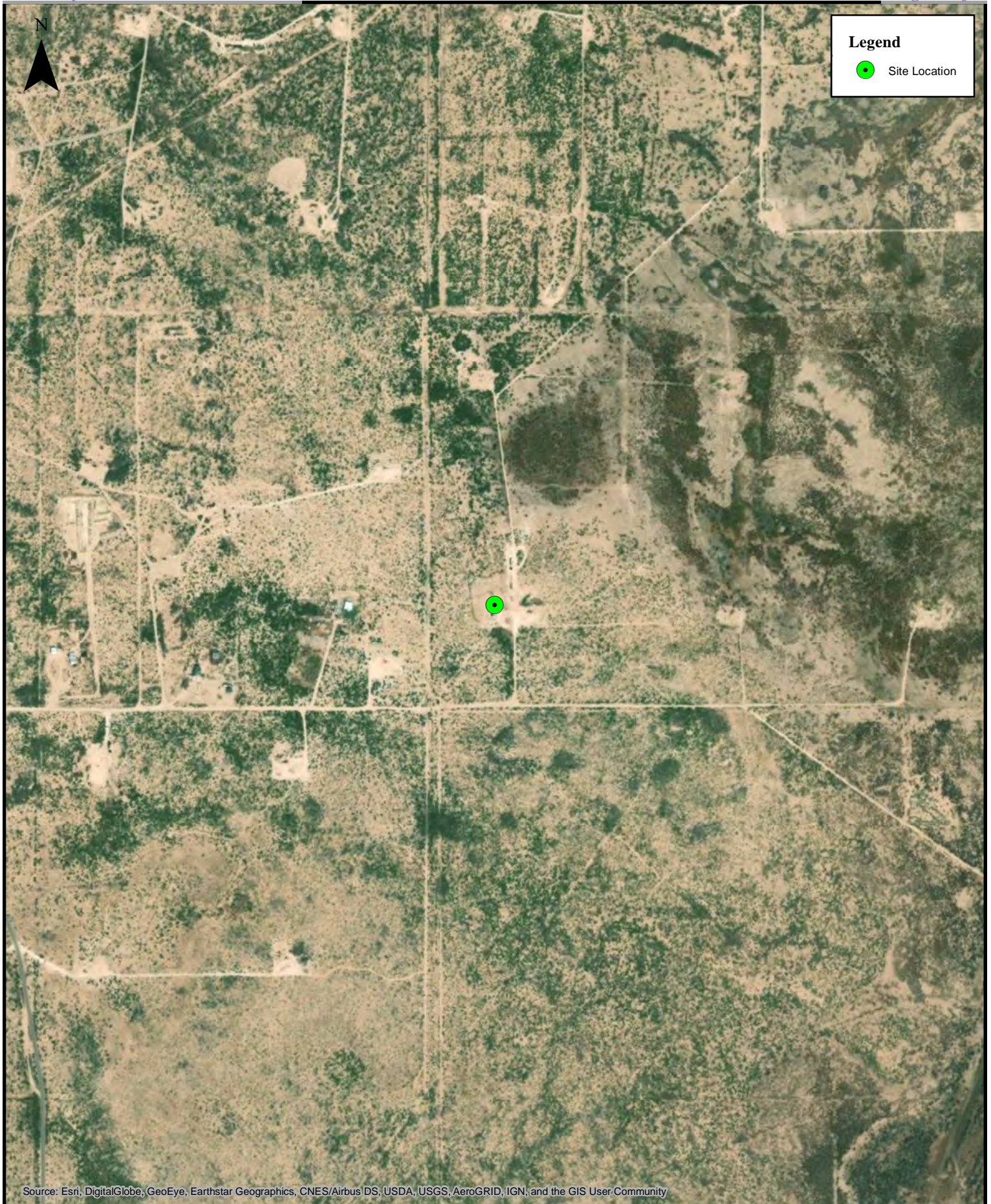
2021 Soil Sample Location Map

**Site Incident Map**



 <p>0 600 1,200 2,400 3,600 4,800 Feet</p> <p>1:24,000</p>	<p><b>Topographic Map</b> Scripp Pit EOG Resources, Inc.</p>
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0 250 500 1,000 1,500 2,000 Feet

1:10,000

**Area Map**  
Scripp Pit  
EOG Resources, Inc.



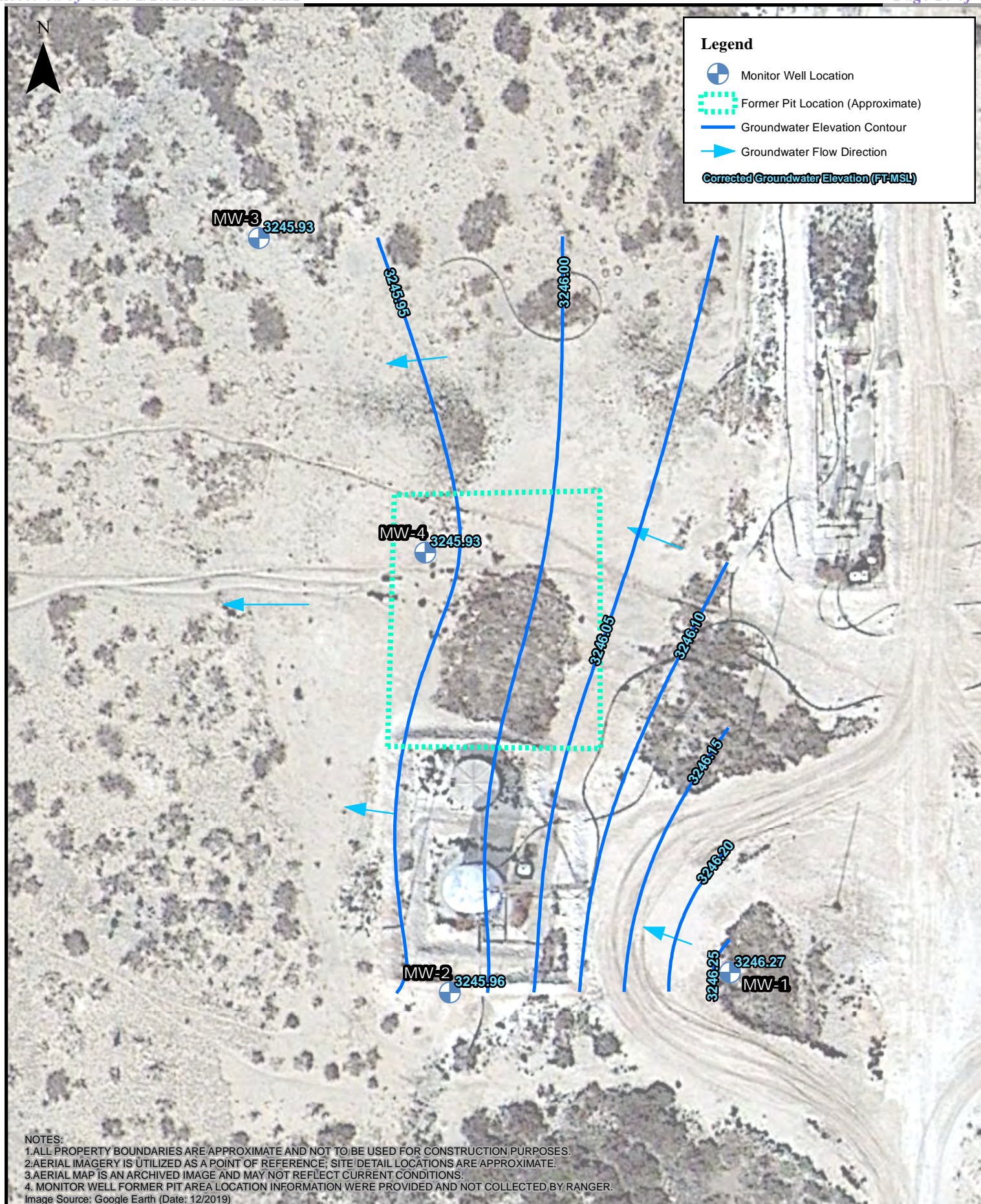


0 12.5 25 50 75 100 Feet

1:600

**Site Map**  
Scripp Pit  
EOG Resources, Inc.



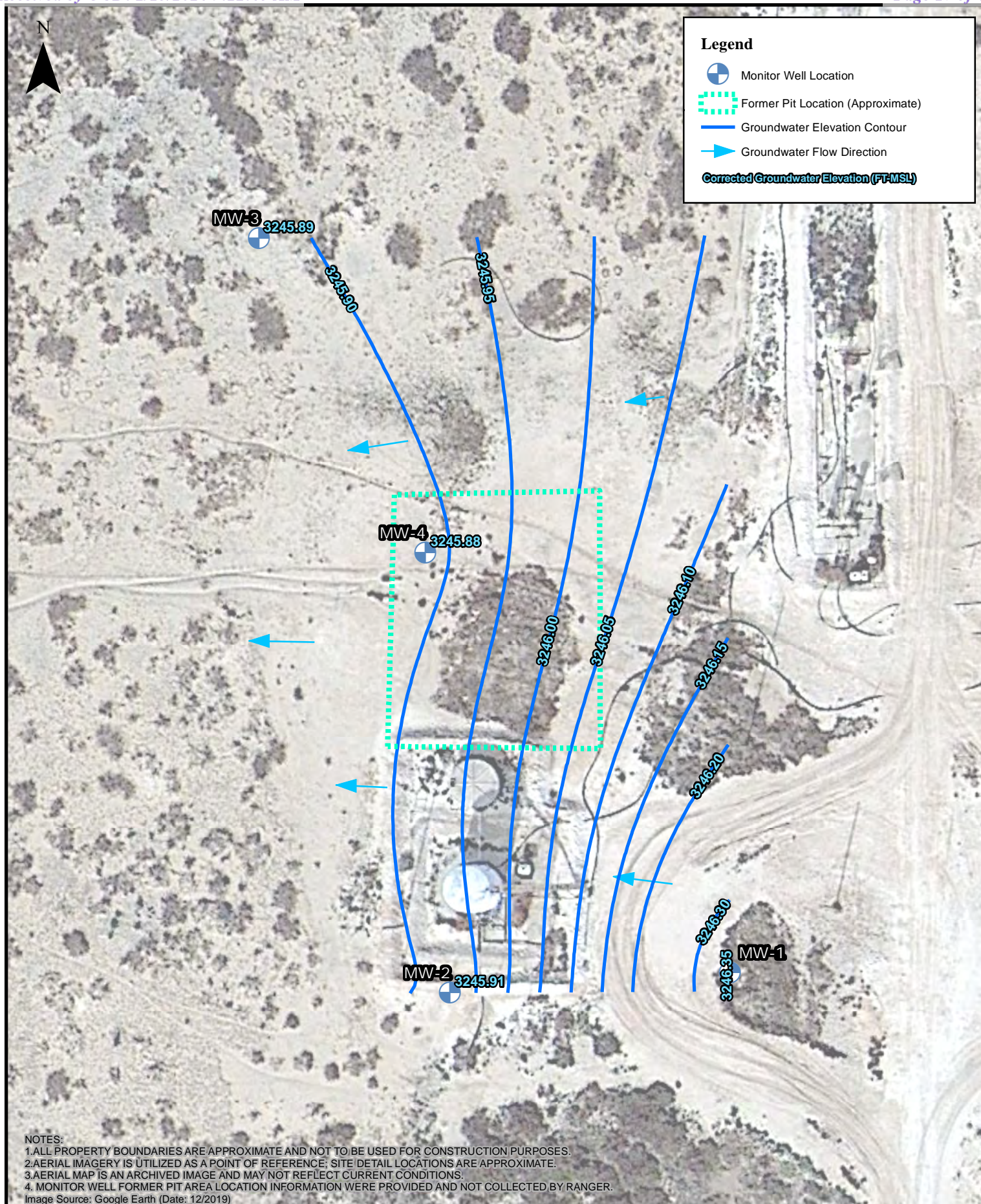


0 10 20 40 60 80 Feet  
1:500

### Groundwater Gradient Map (09/19/2002)

Scripp Pit  
EOG Resources, Inc.





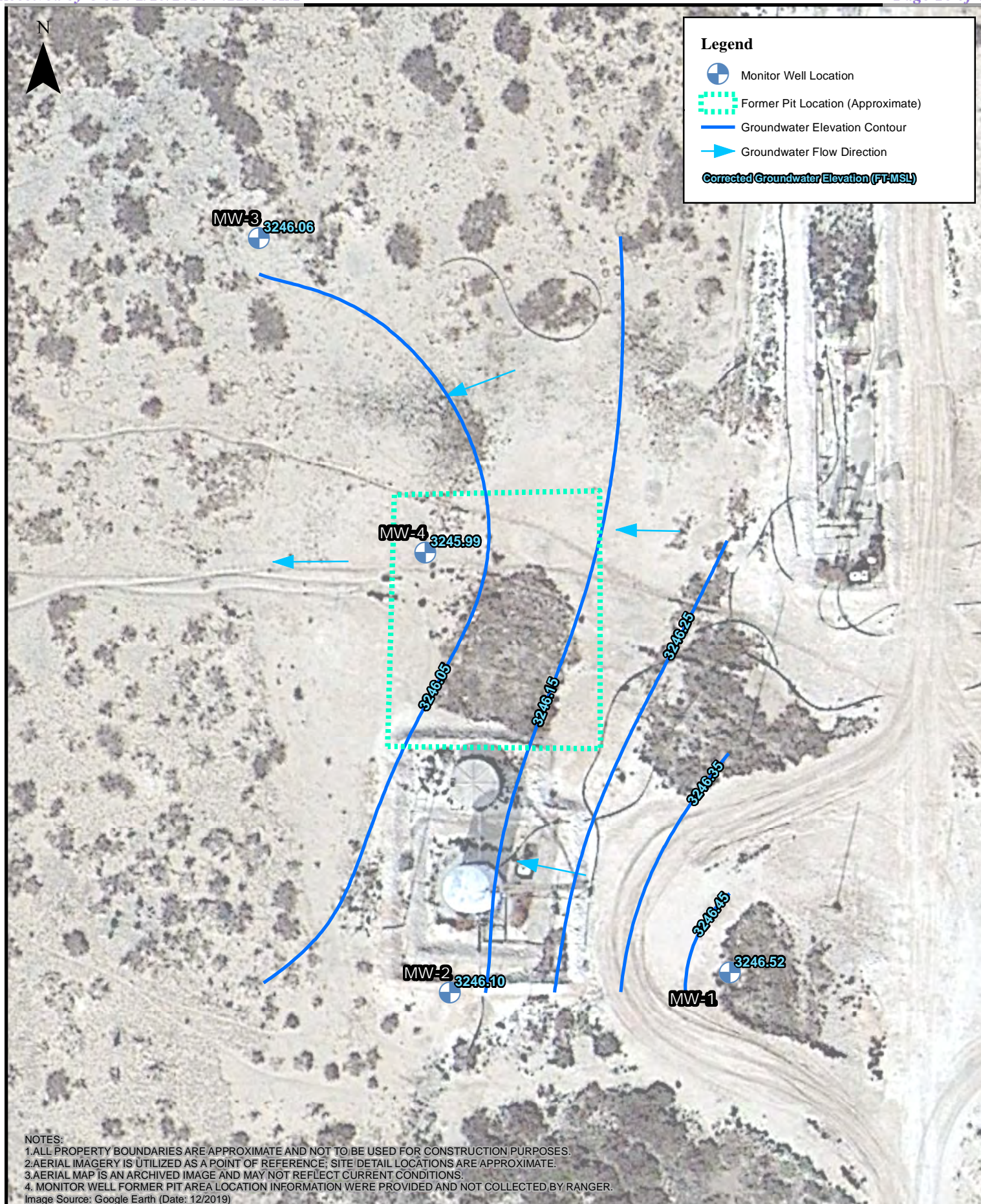
0 10 20 40 60 80 Feet

1:500

### Groundwater Gradient Map (11/08/2004)

Scripp Pit  
EOG Resources, Inc.





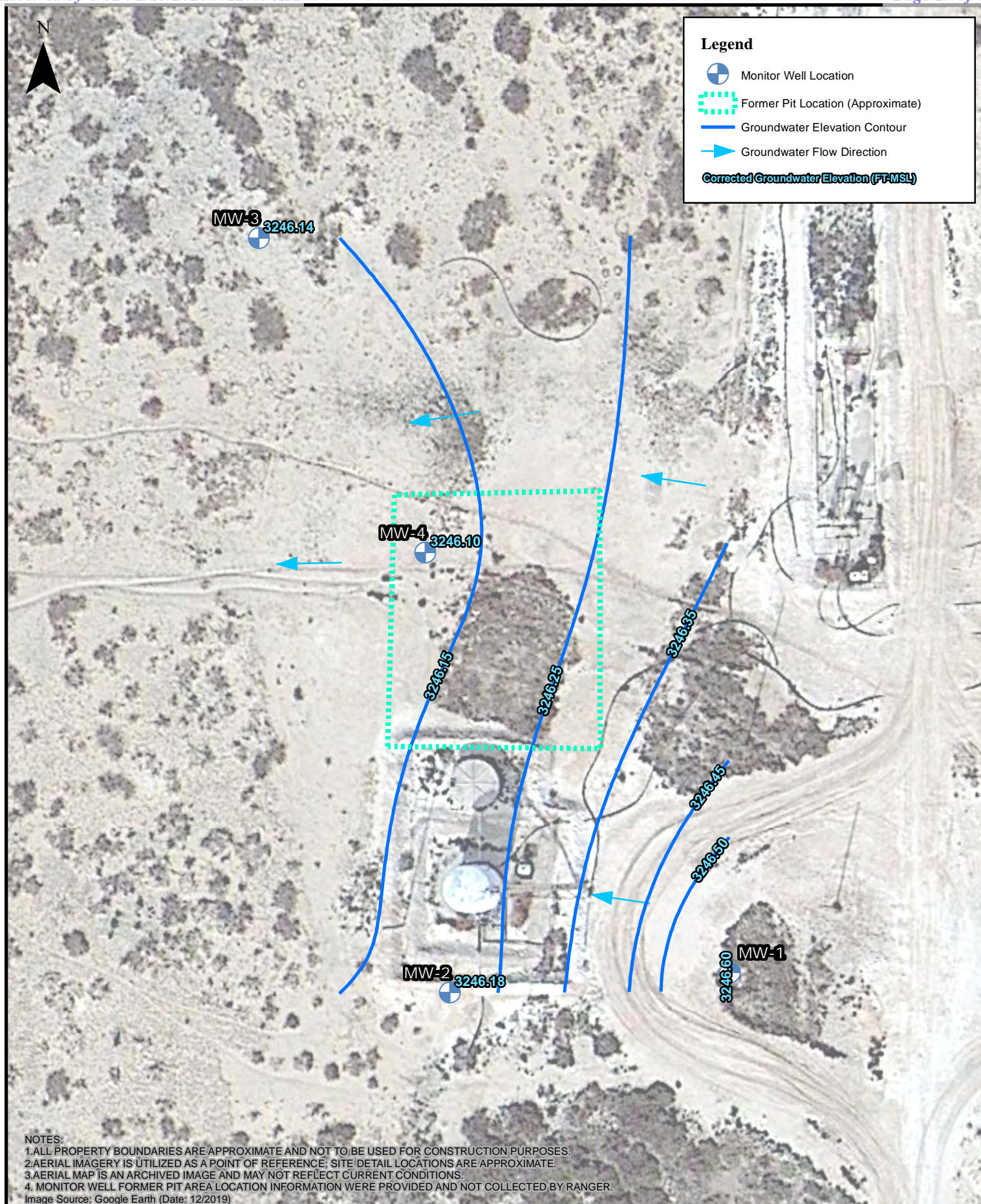
0 10 20 40 60 80 Feet

1:500

### Groundwater Gradient Map (12/01/2004)

Scripp Pit  
EOG Resources, Inc.





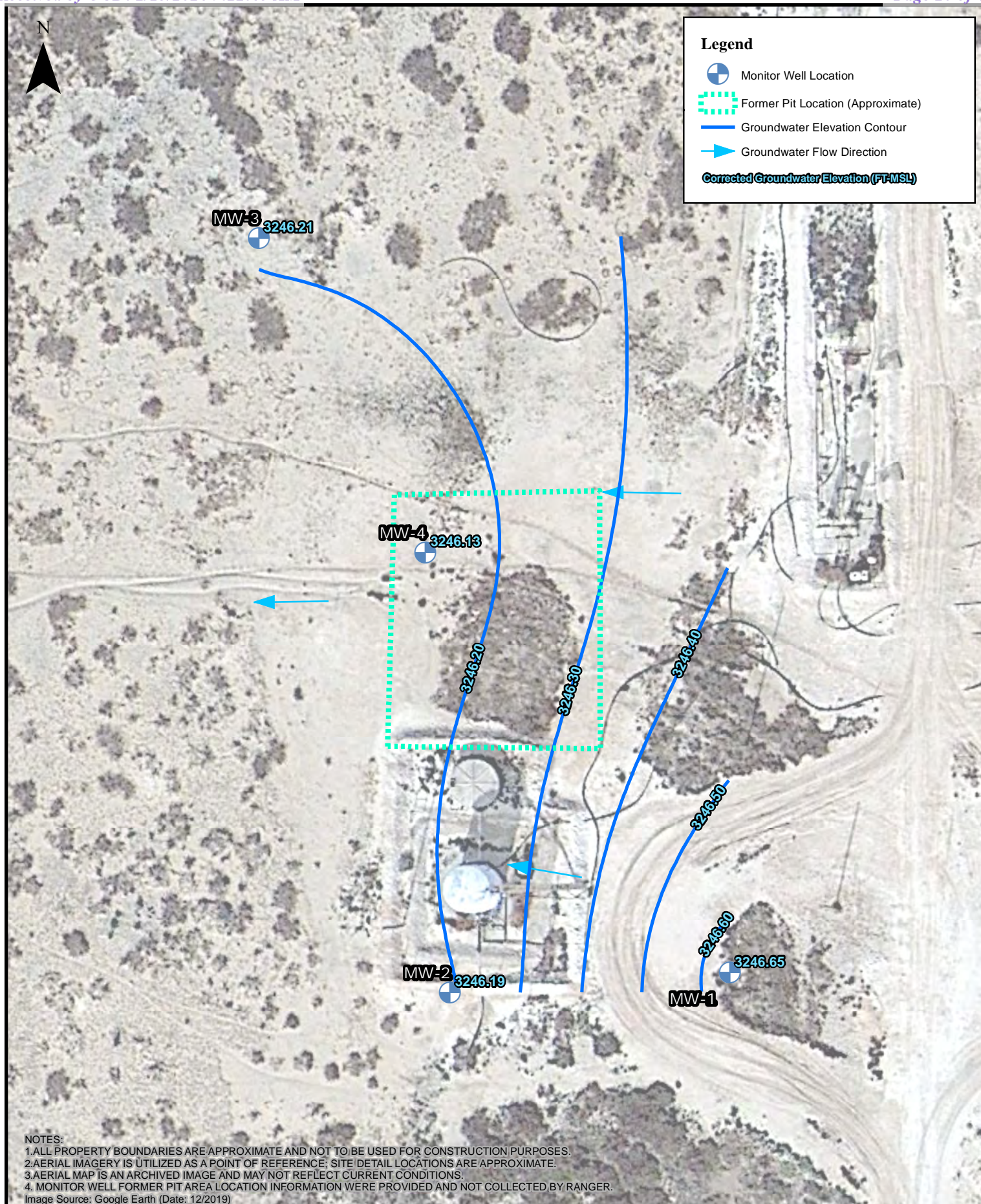
0 10 20 40 60 80  
Feet

1:500

### Groundwater Gradient Map (12/15/2004)

Scripp Pit  
EOG Resources, Inc.





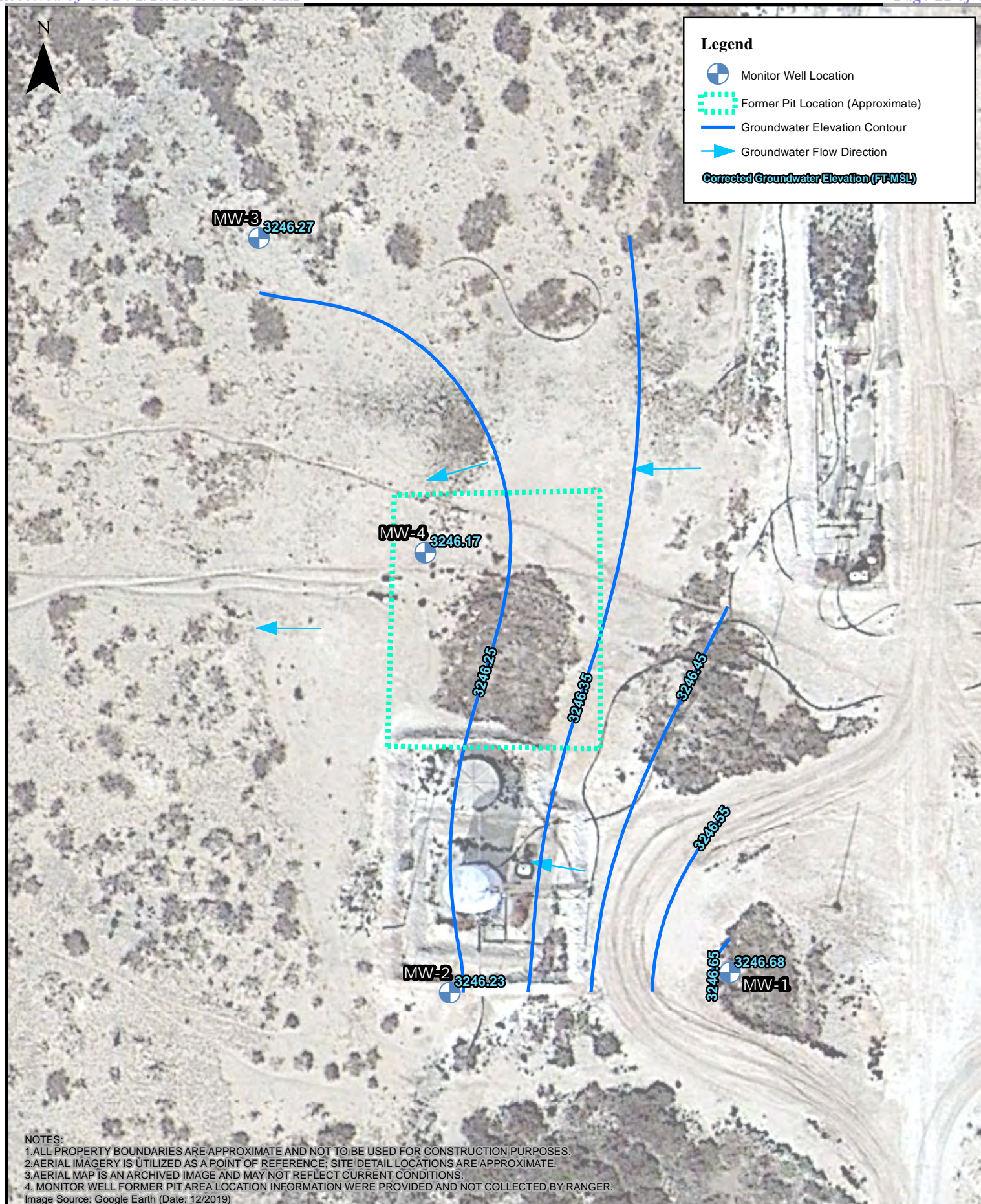
0 10 20 40 60 80 Feet

1:500

### Groundwater Gradient Map (12/21/2004)

Scripp Pit  
EOG Resources, Inc.





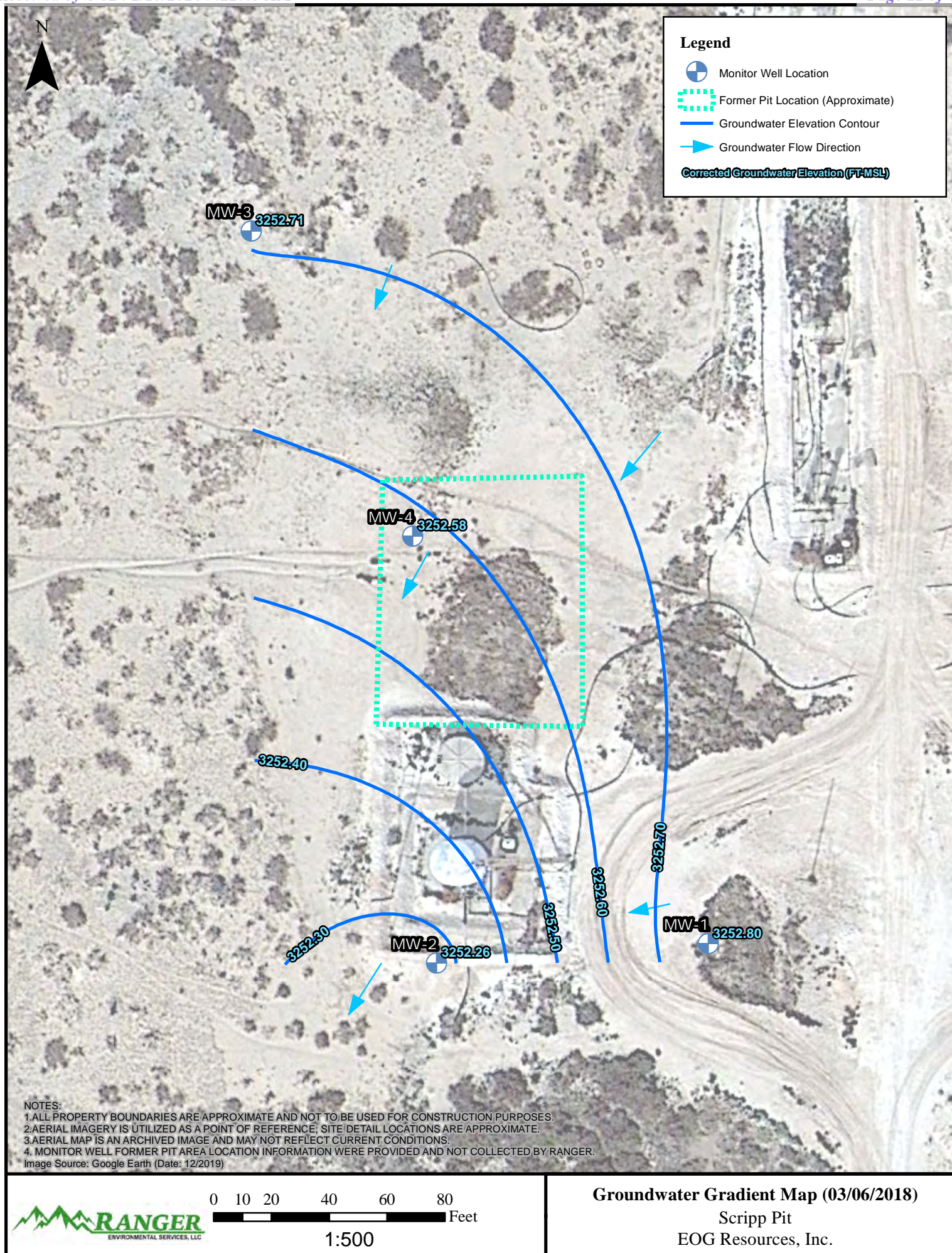
0 10 20 40 60 80 Feet

1:500

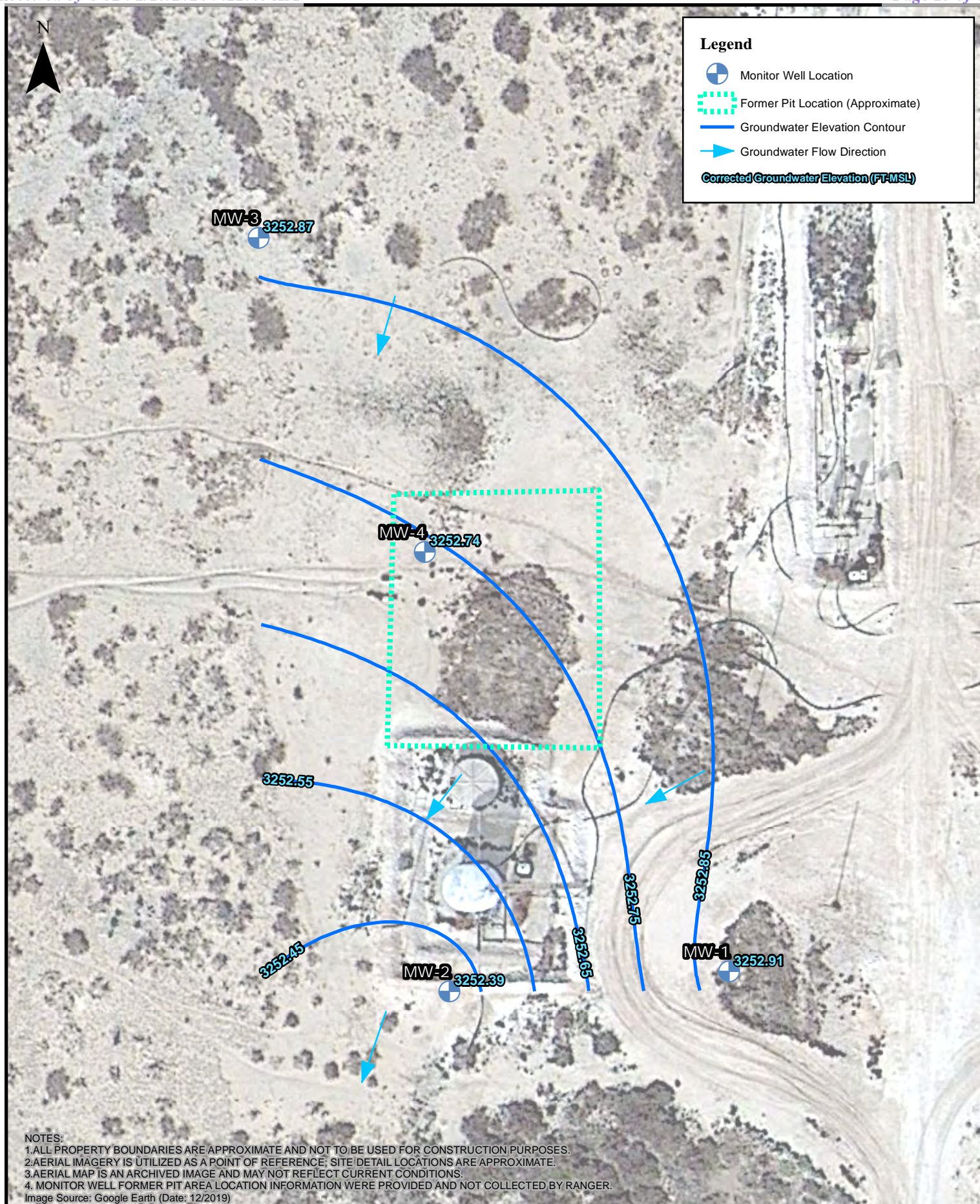
### Groundwater Gradient Map (12/30/2004)

Scripp Pit  
EOG Resources, Inc.







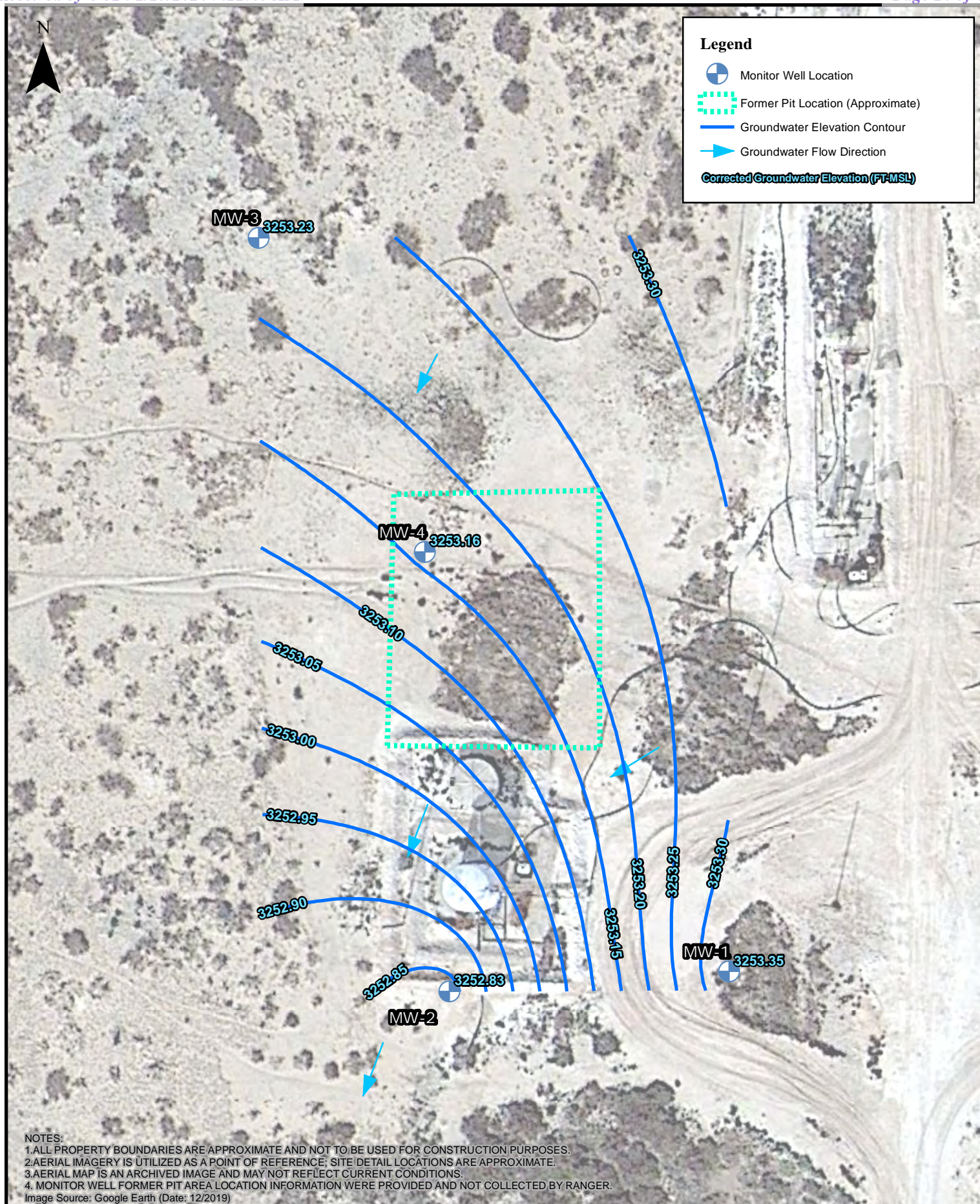


0 10 20 40 60 80 Feet  
1:500

### Groundwater Gradient Map (03/28/2018)

Scripp Pit  
EOG Resources, Inc.



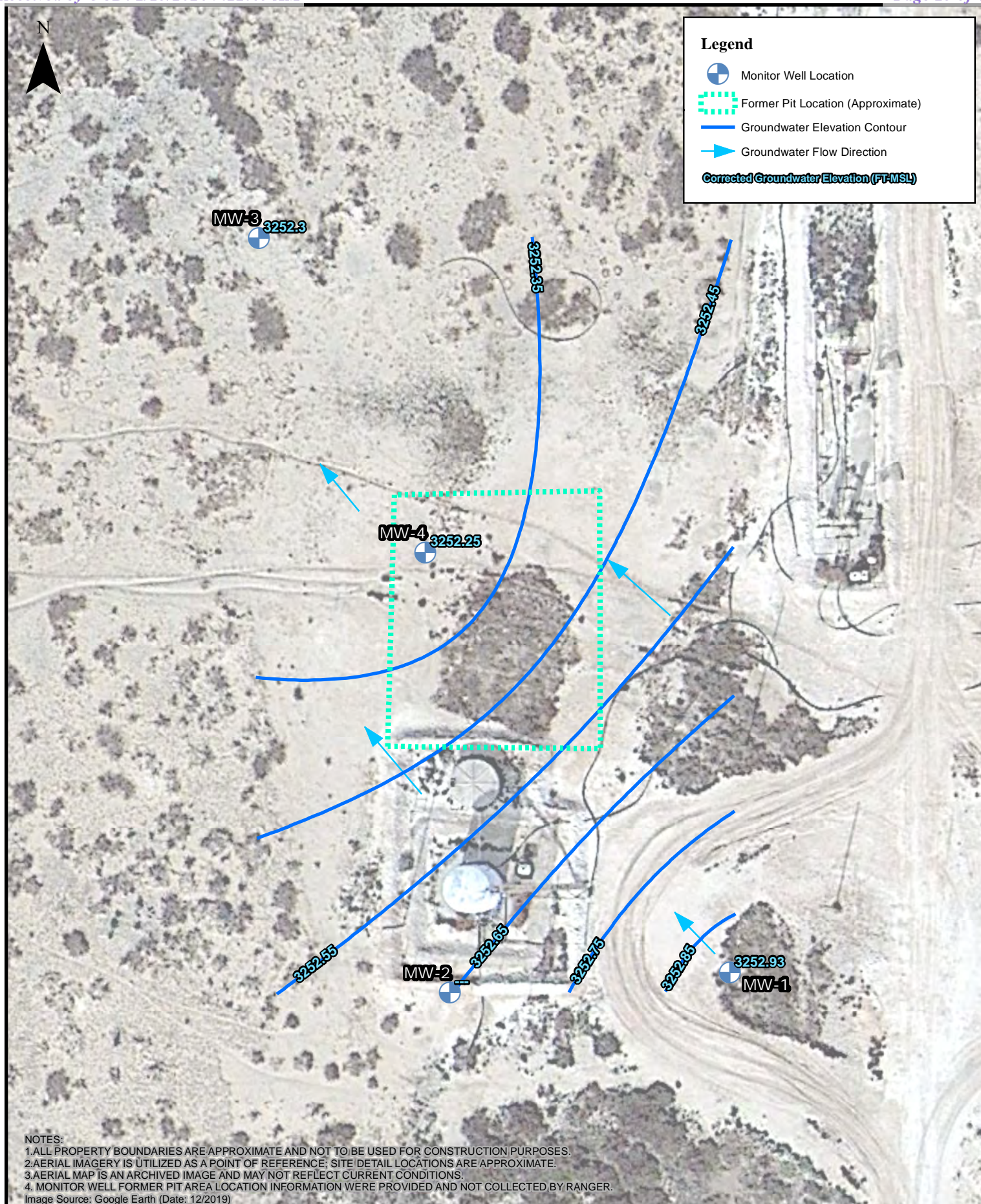


0 10 20 40 60 80 Feet  
1:500

### Groundwater Gradient Map (03/11/2019)

Scripp Pit  
EOG Resources, Inc.



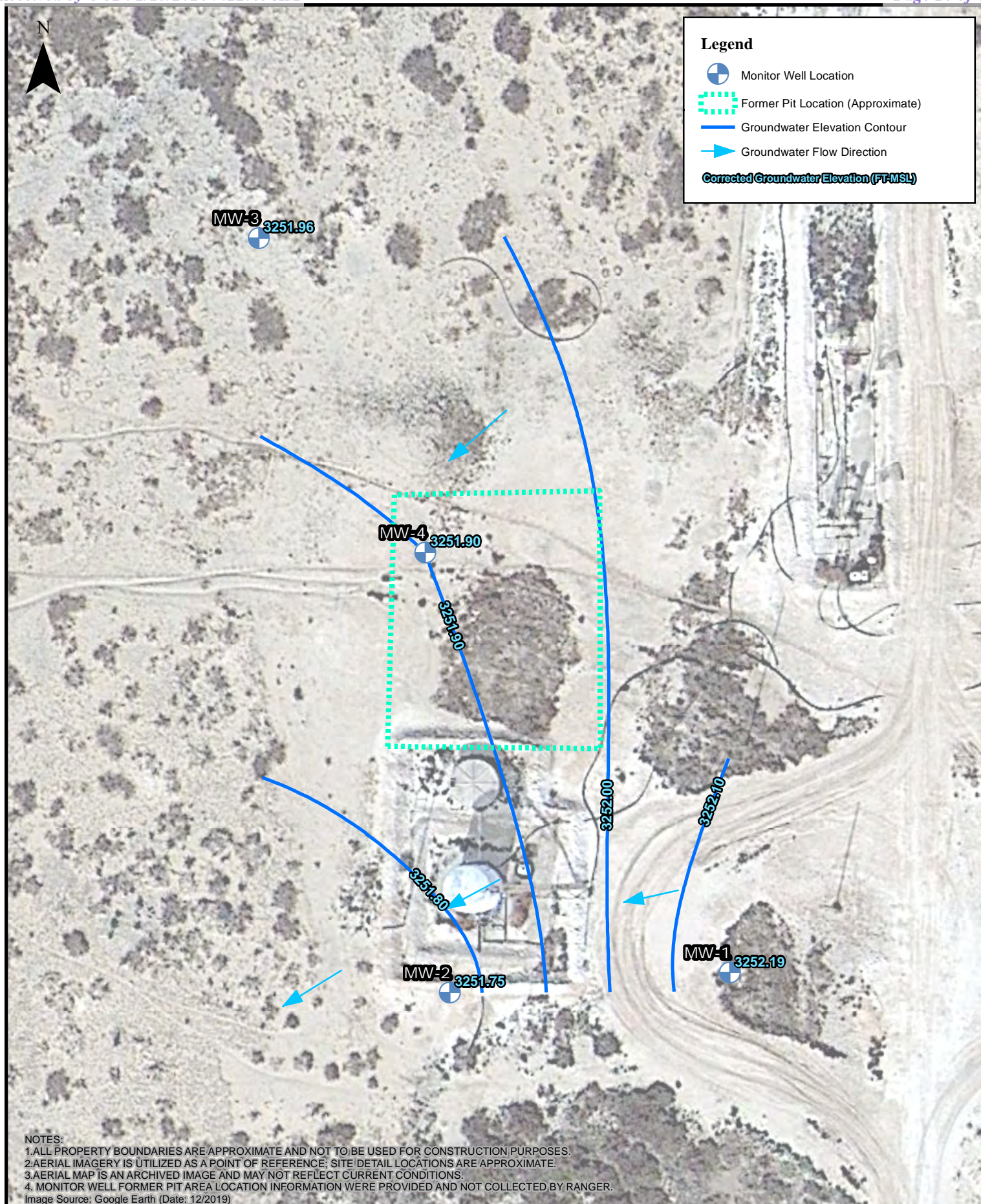


0 10 20 40 60 80 Feet  
1:500

### Groundwater Gradient Map (10/29/2019)

Scripp Pit  
EOG Resources, Inc.



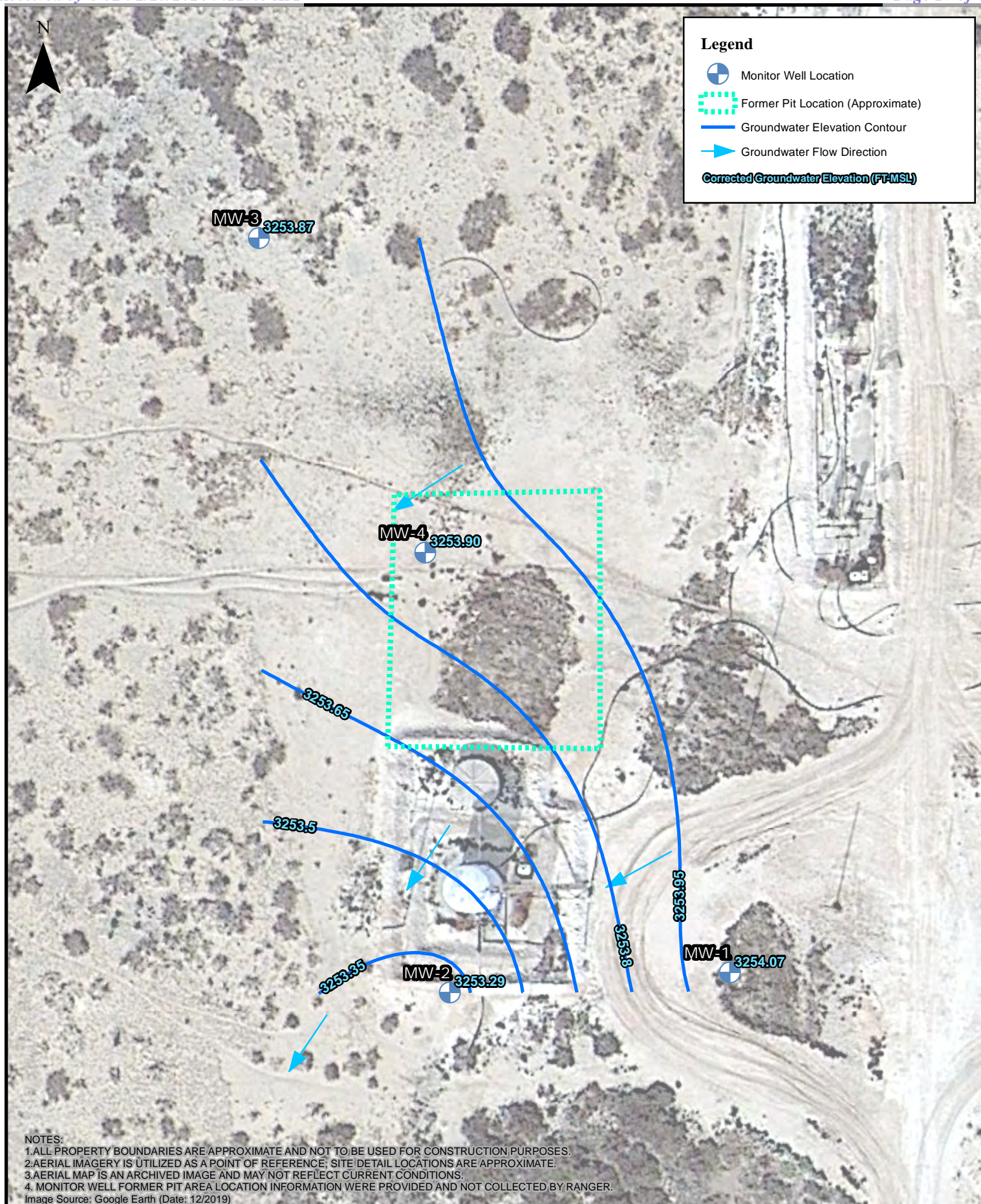


0 10 20 40 60 80 Feet  
1:500

**Groundwater Gradient Map (09/18/2020)**

Scripp Pit  
EOG Resources, Inc.



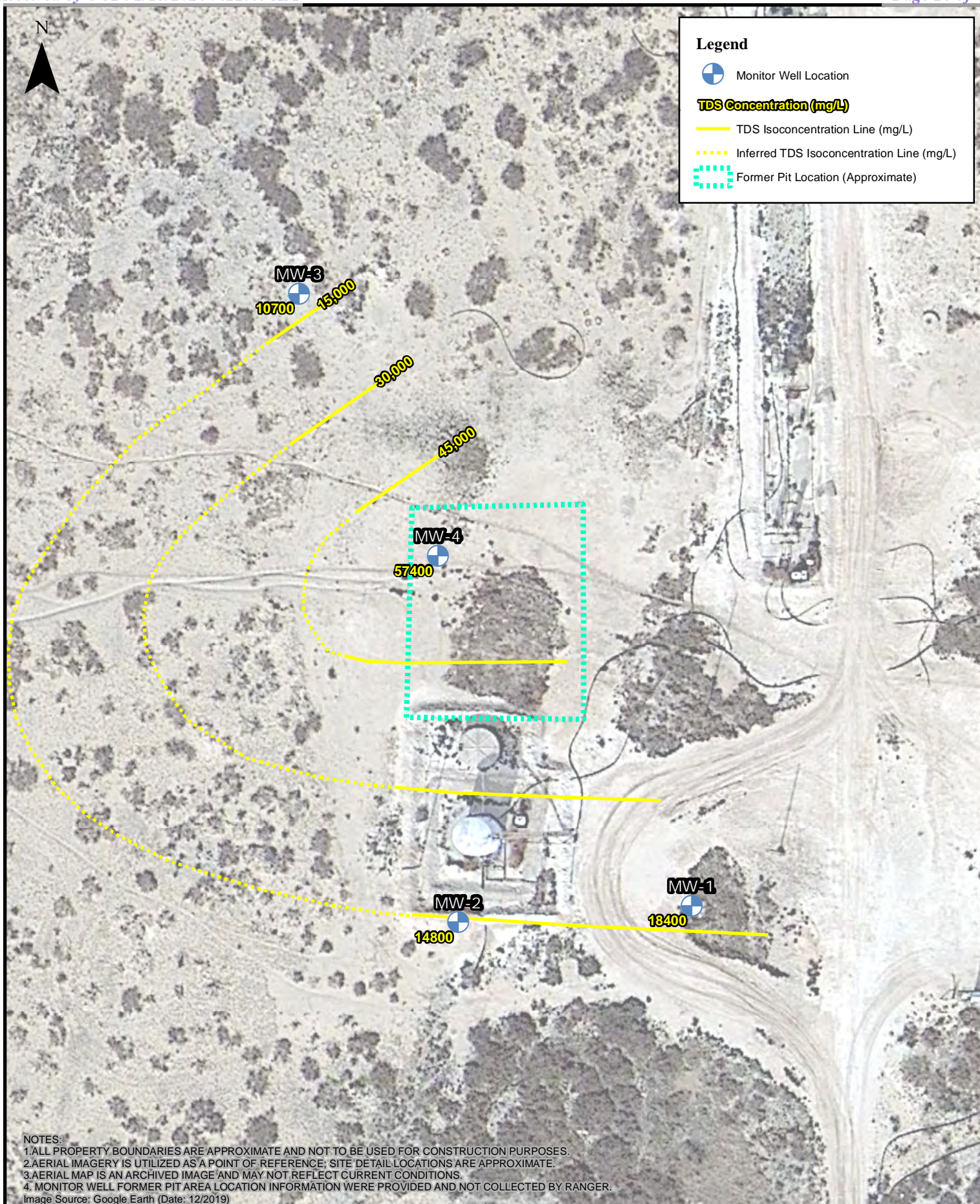


0 10 20 40 60 80 Feet  
1:500

### Groundwater Gradient Map (08/04/2021)

Scripp Pit  
EOG Resources, Inc.



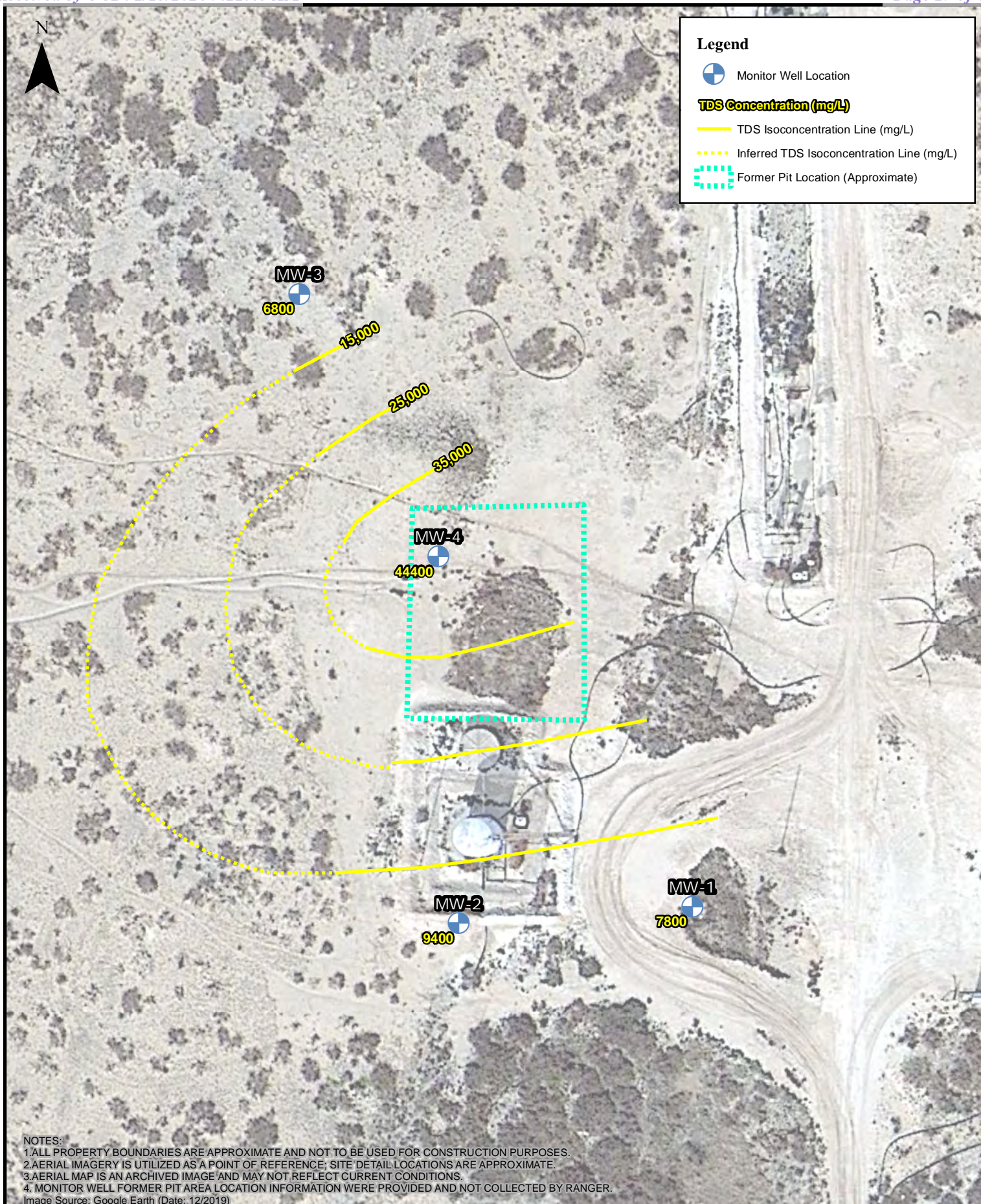


0 12.5 25 50 75 100 Feet

1:600

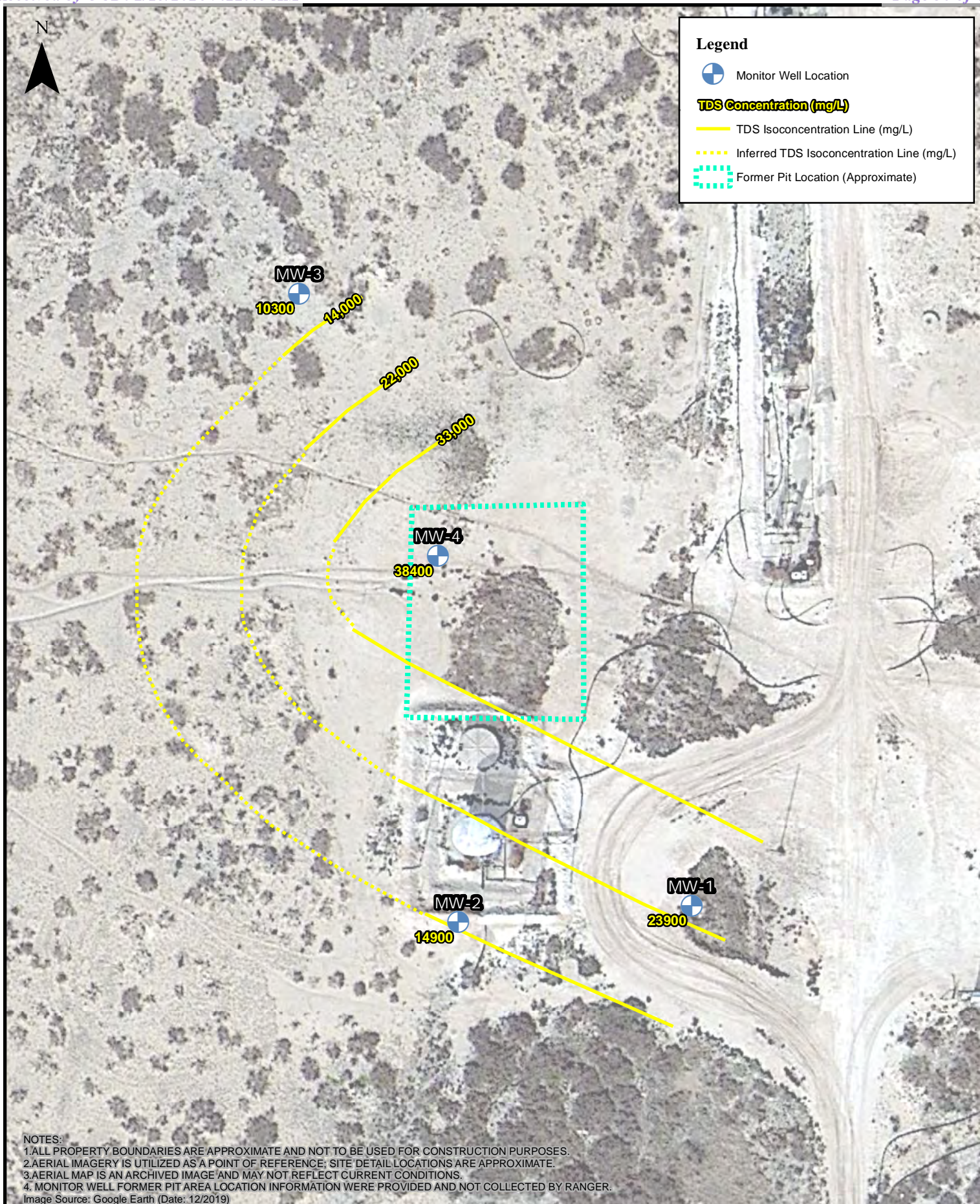
**TDS Isoconcentration Map**  
**(Sample Date: 09/19/2002)**  
 Scripp Pit  
 EOG Resources, Inc.





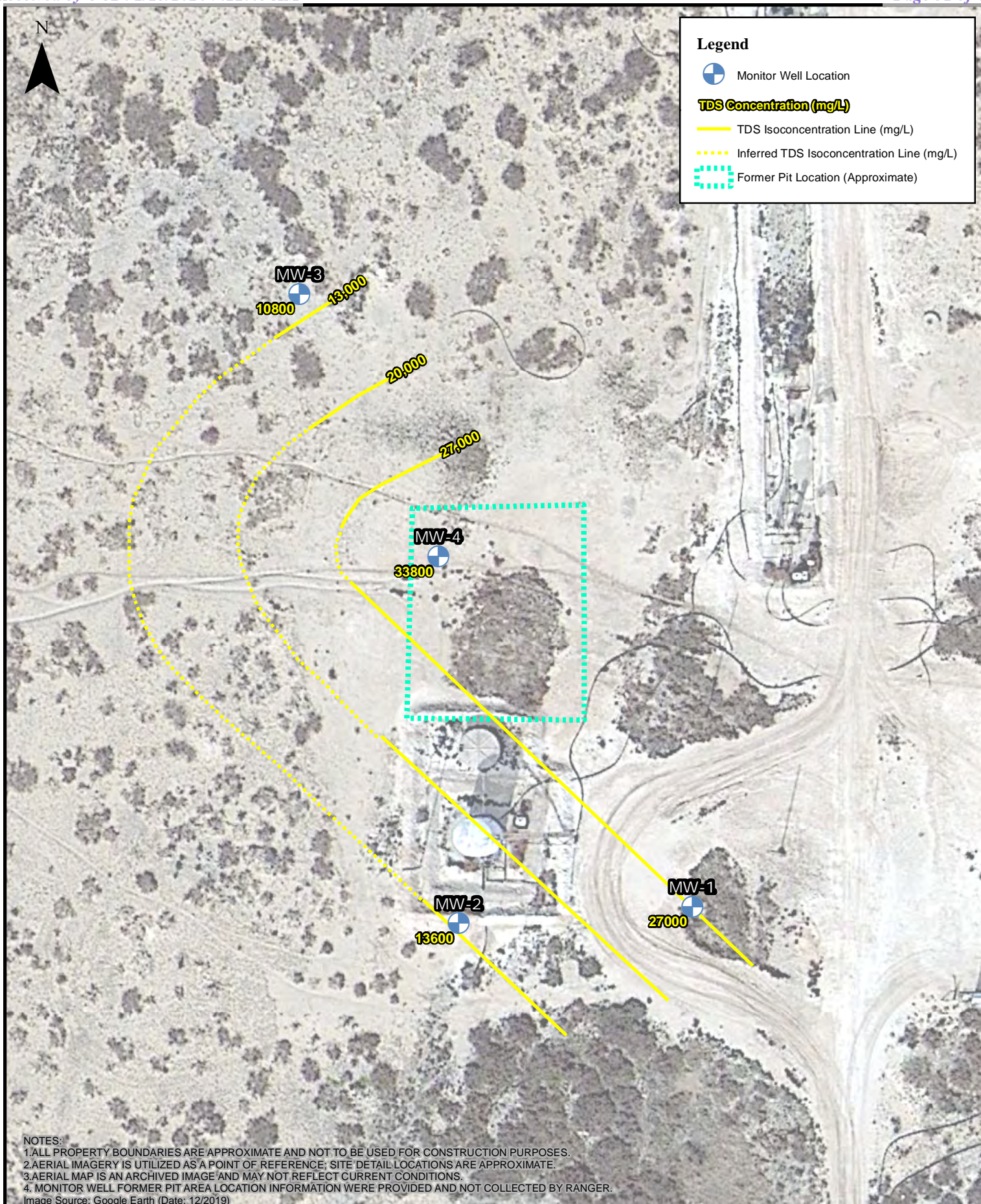
0 12.5 25 50 75 100 Feet  
 1:600





0 12.5 25 50 75 100 Feet  
 1:600



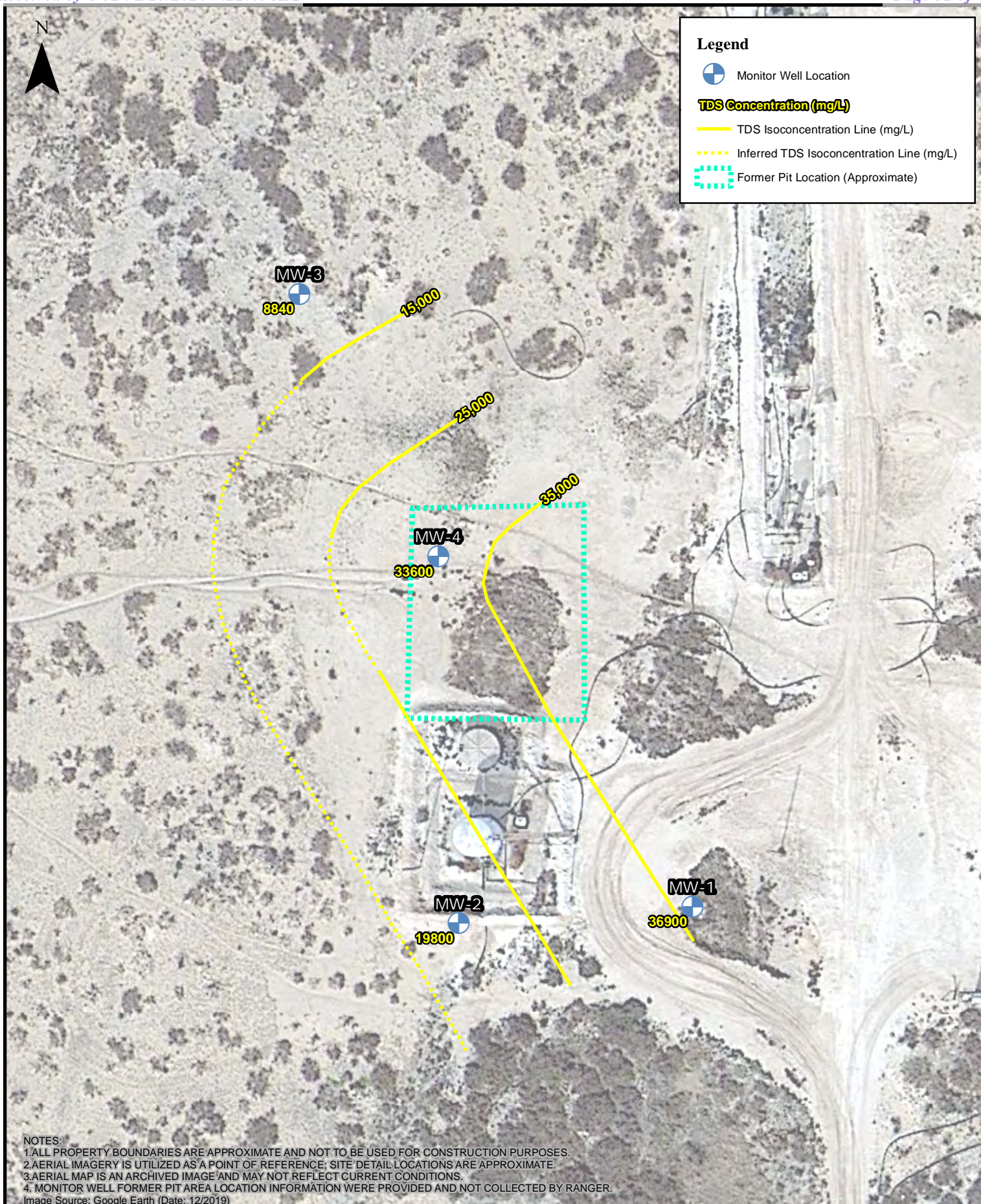


0 12.5 25 50 75 100 Feet

1:600

**TDS Isoconcentration Map**  
**(Sample Date: 03/12/2013)**  
 Scripp Pit  
 EOG Resources, Inc.



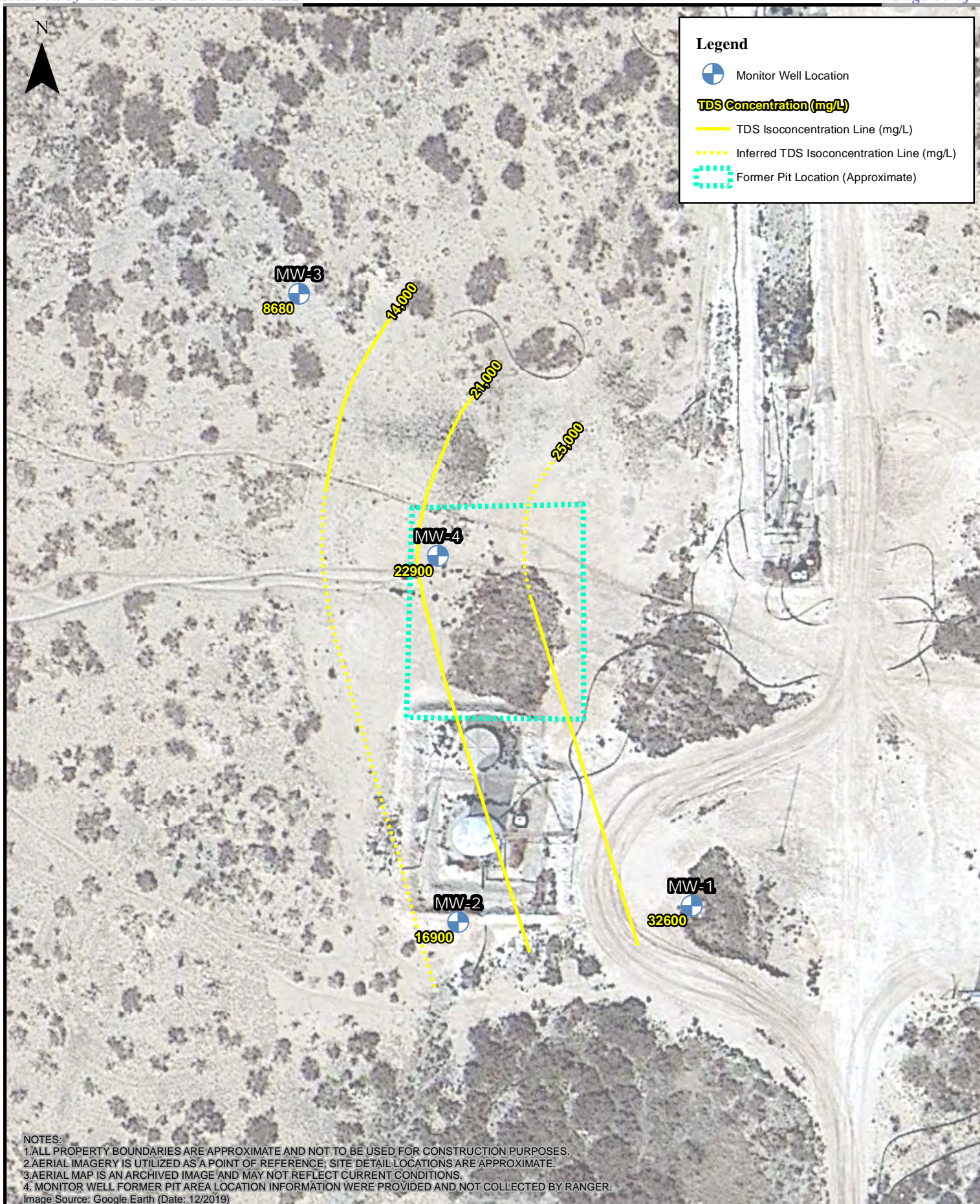


0 12.5 25 50 75 100 Feet

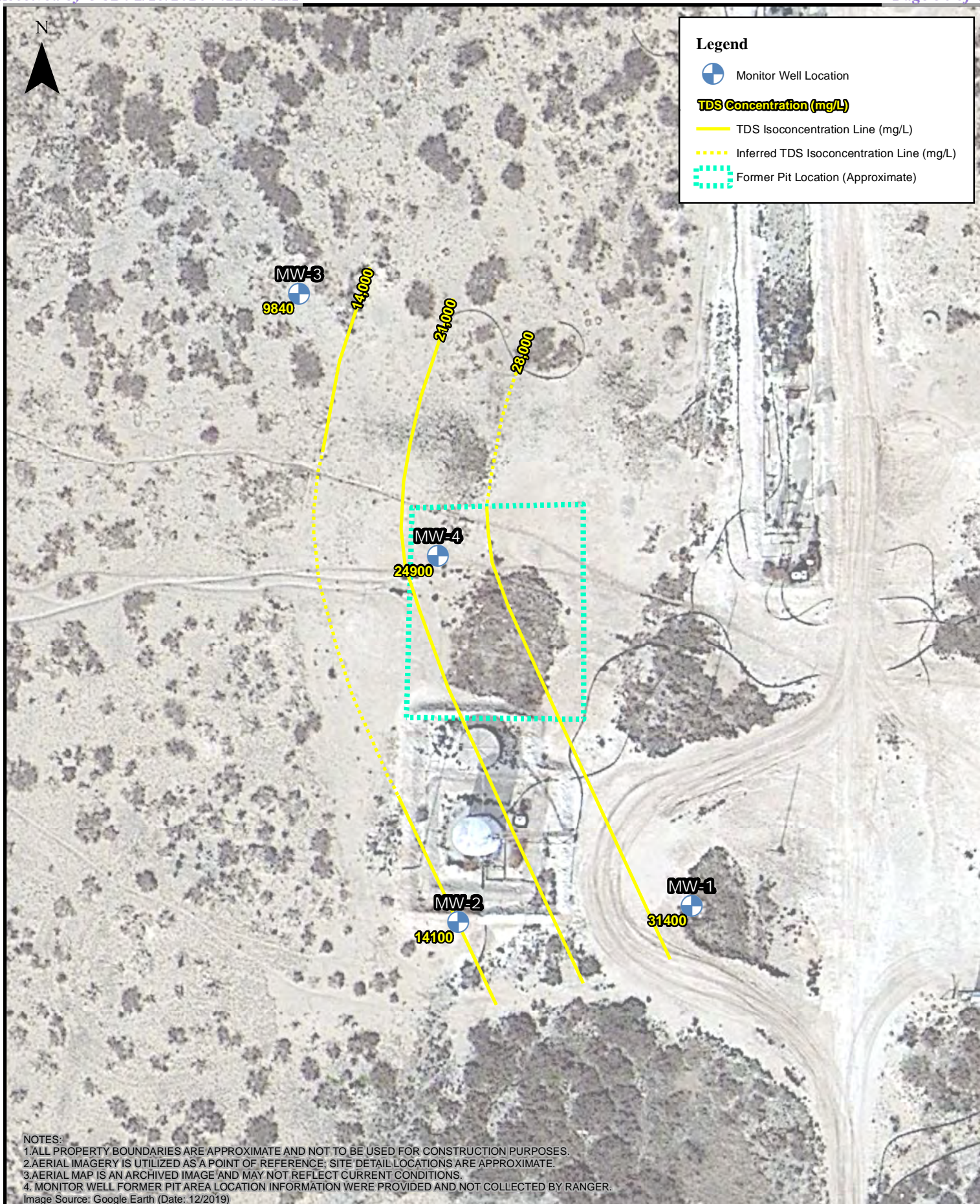
1:600

**TDS Isoconcentration Map**  
**(Sample Date: 03/28/2018)**  
 Scripp Pit  
 EOG Resources, Inc.

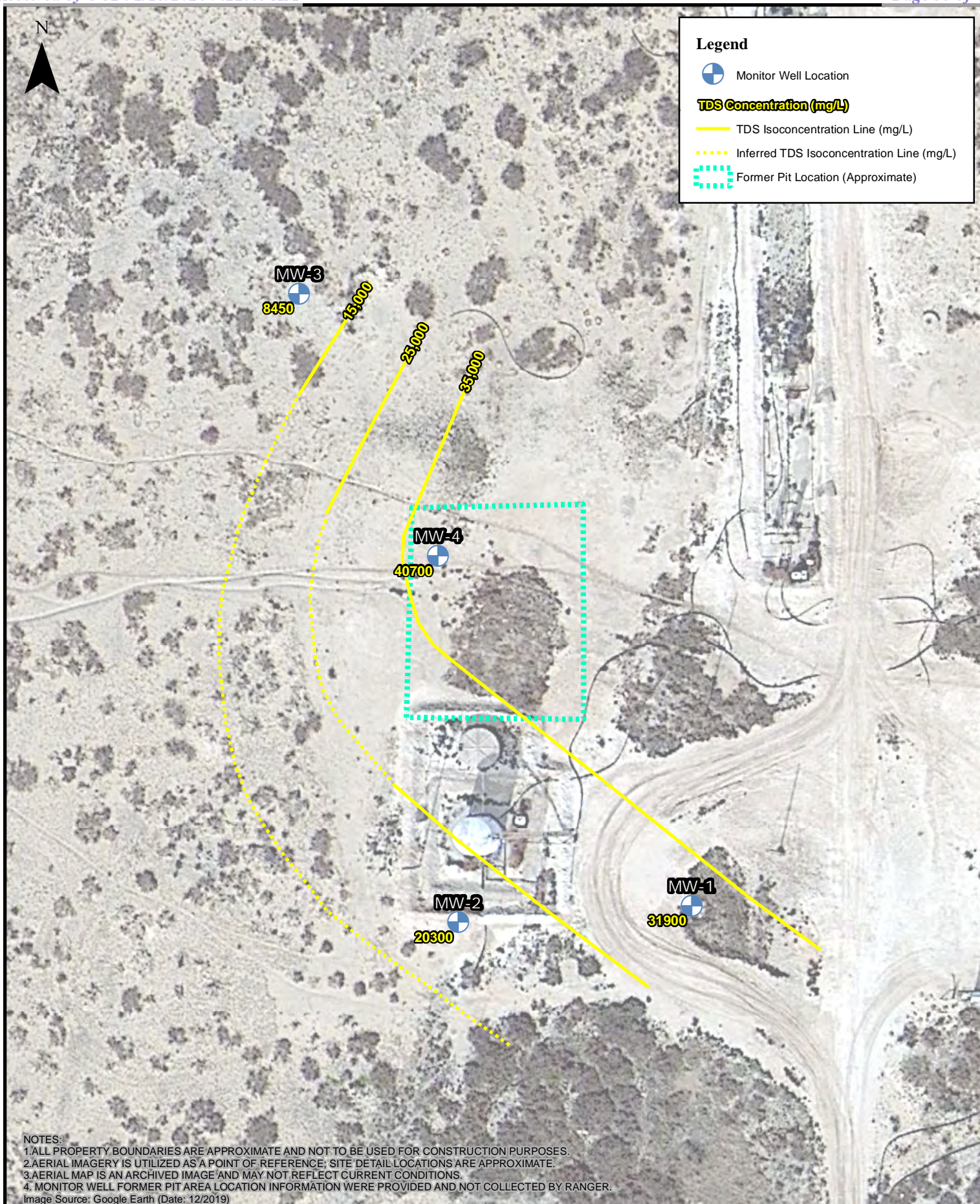




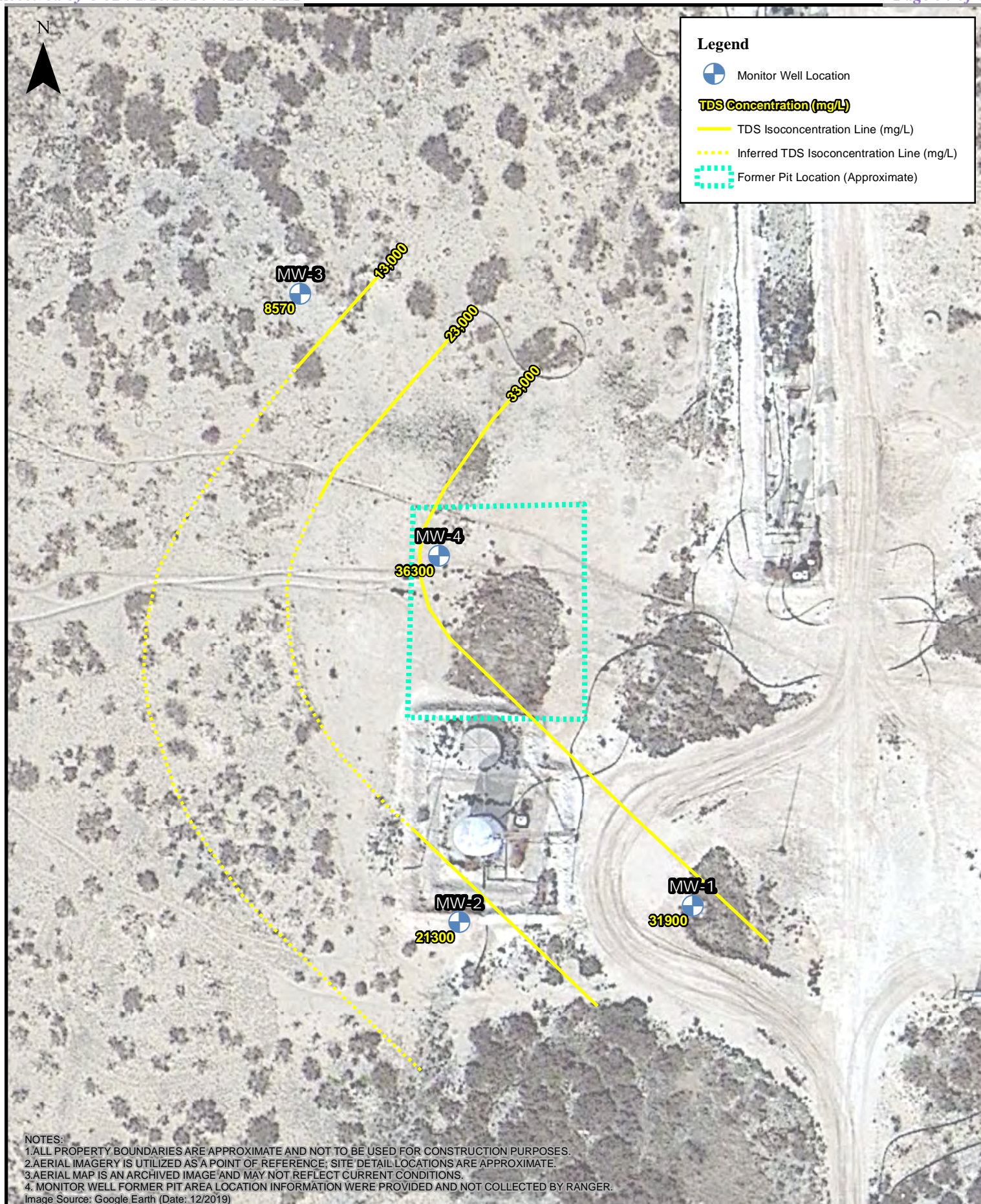




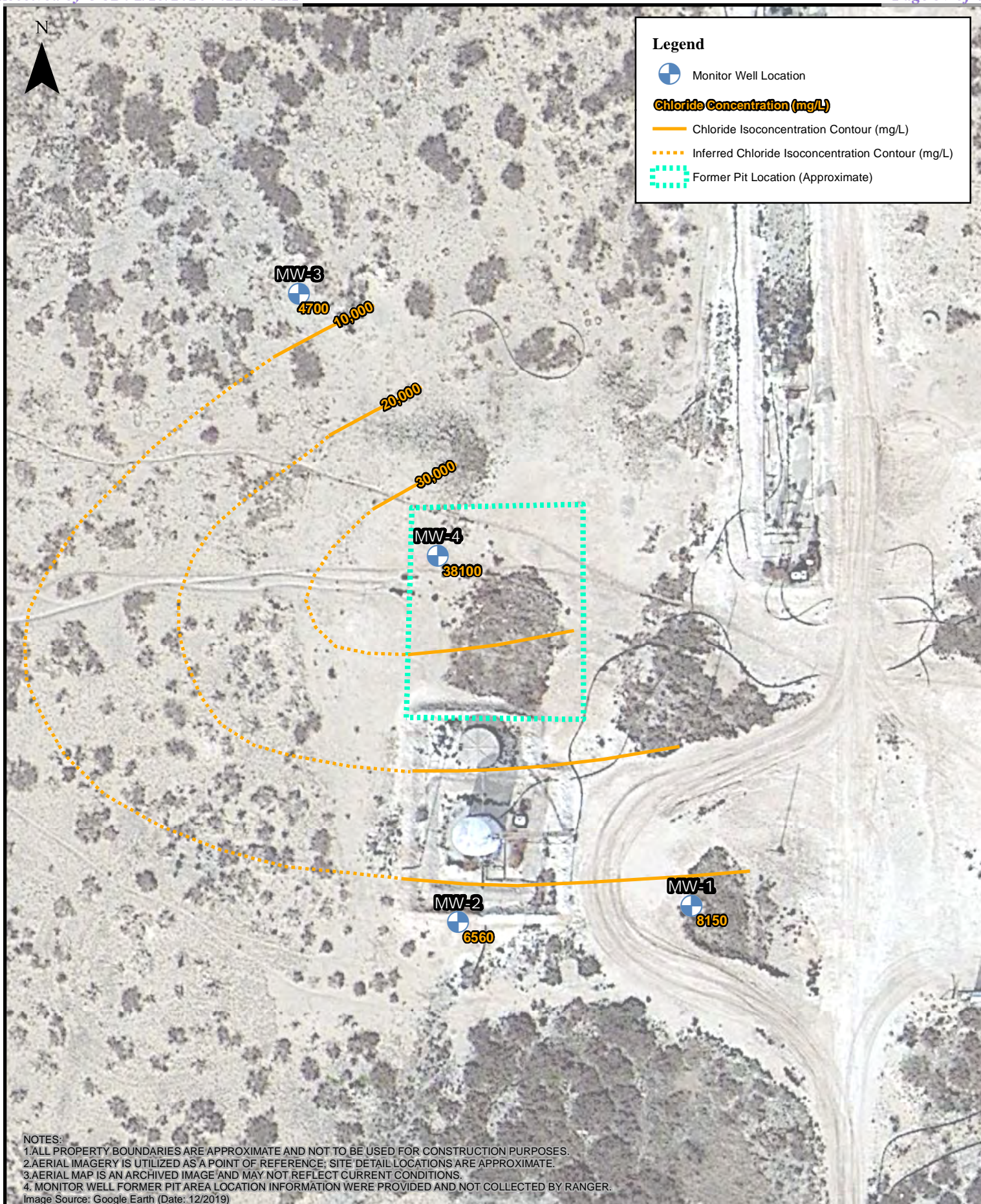








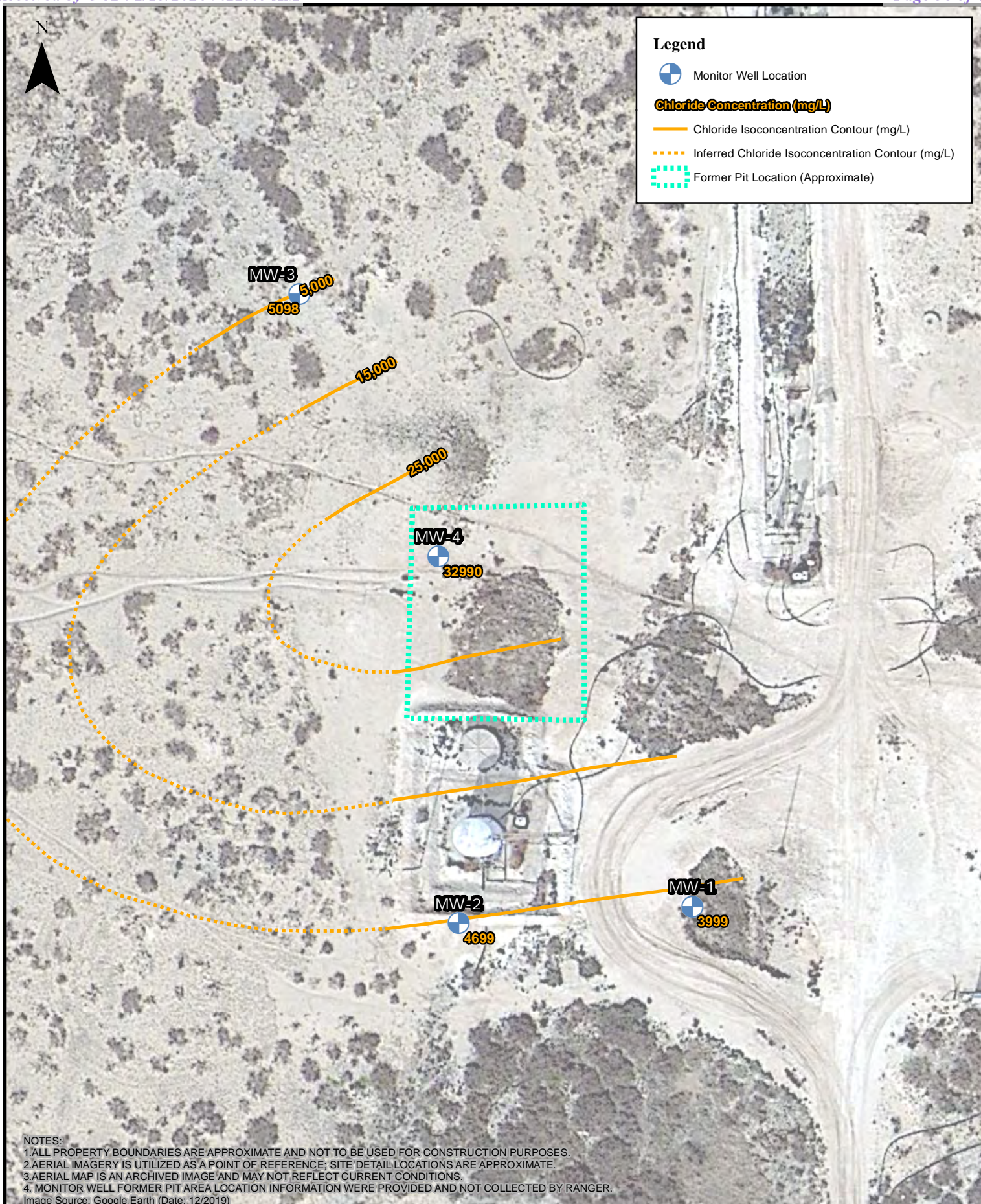




0 12.5 25 50 75 100 Feet  
1:600

**Chloride Isoconcentration Map**  
(Sample Date: 09/19/2002)  
Scripp Pit  
EOG Resources, Inc.



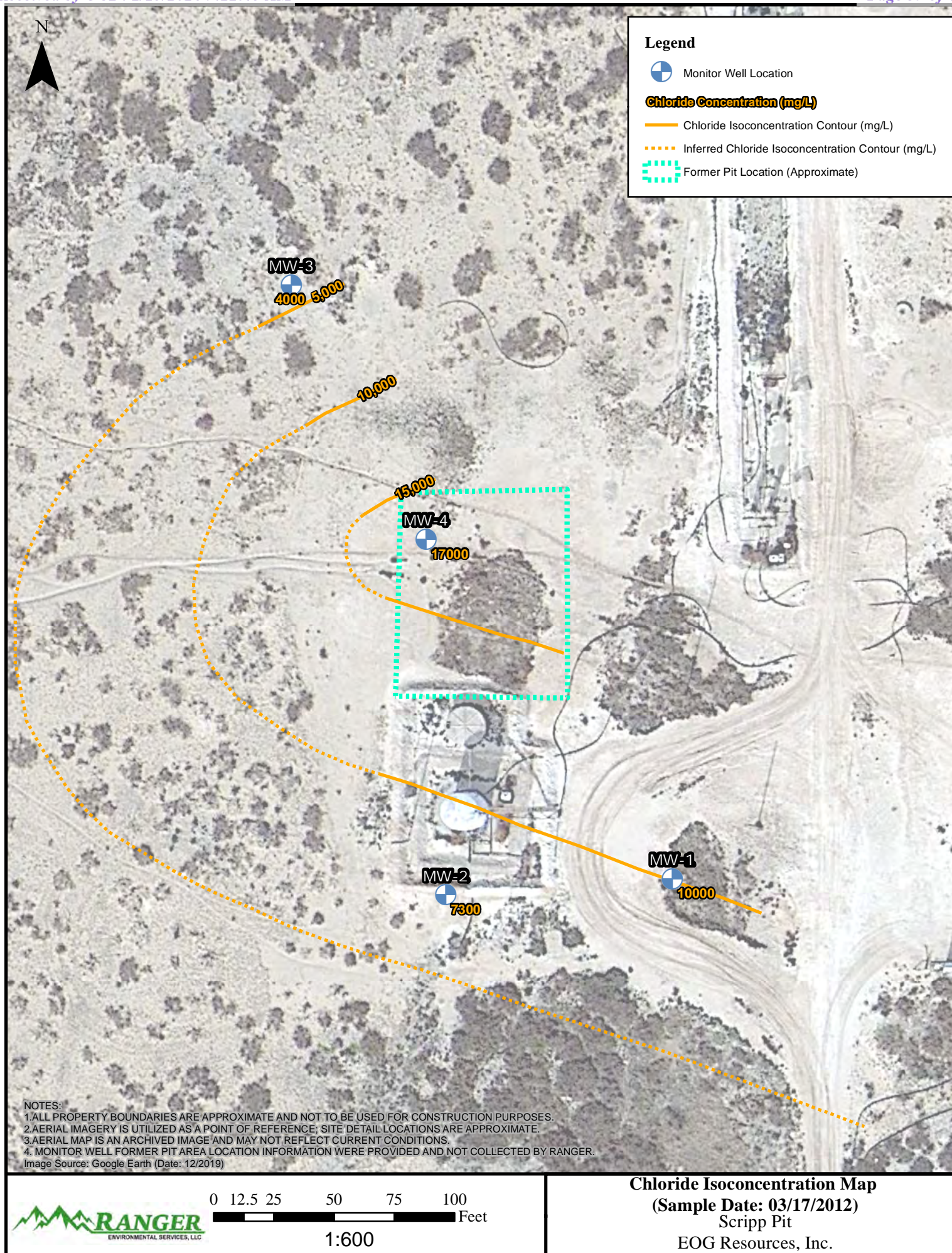


0 12.5 25 50 75 100 Feet

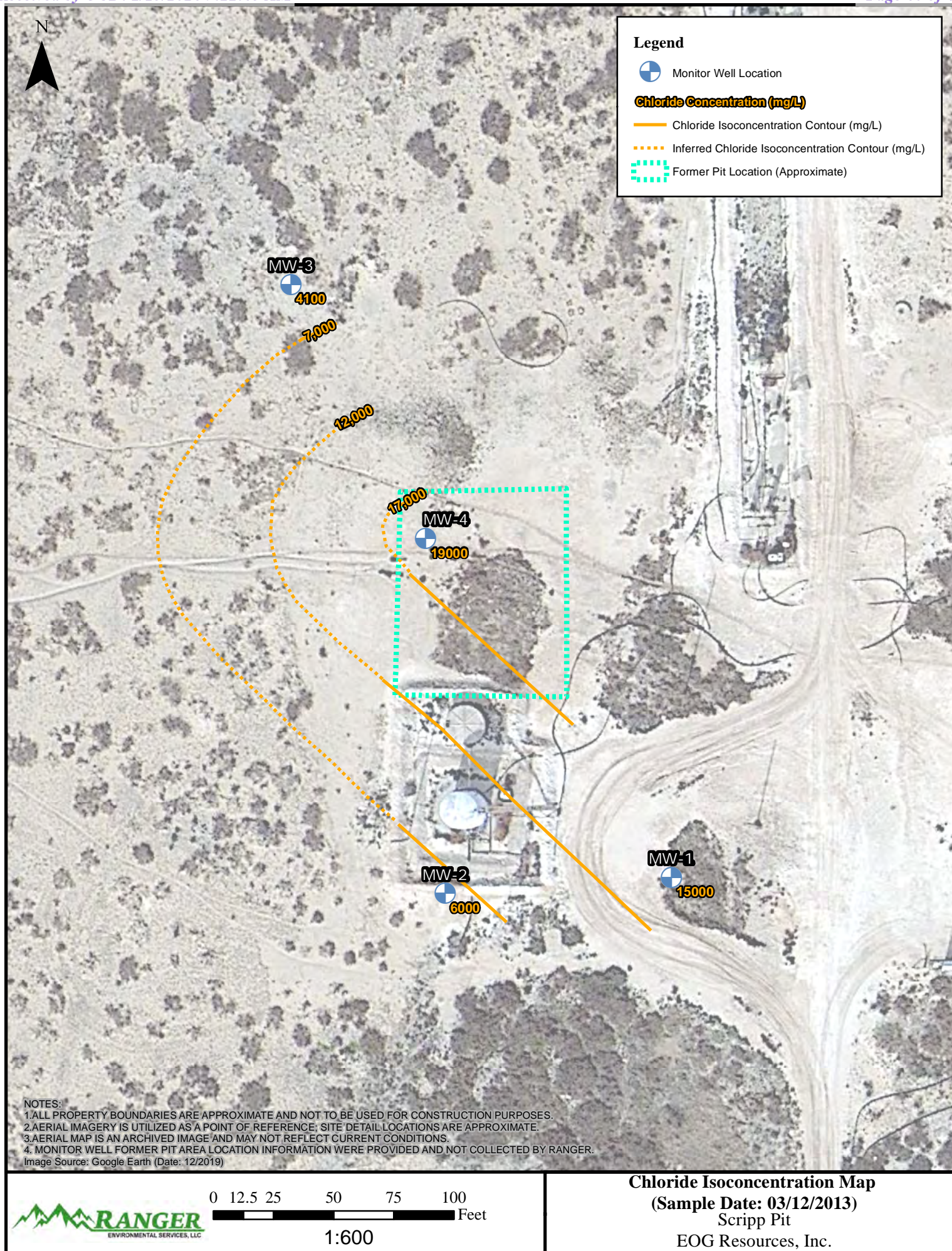
1:600

**Chloride Isoconcentration Map**  
 (Sample Date: 11/08/2004)  
 Scripp Pit  
 EOG Resources, Inc.

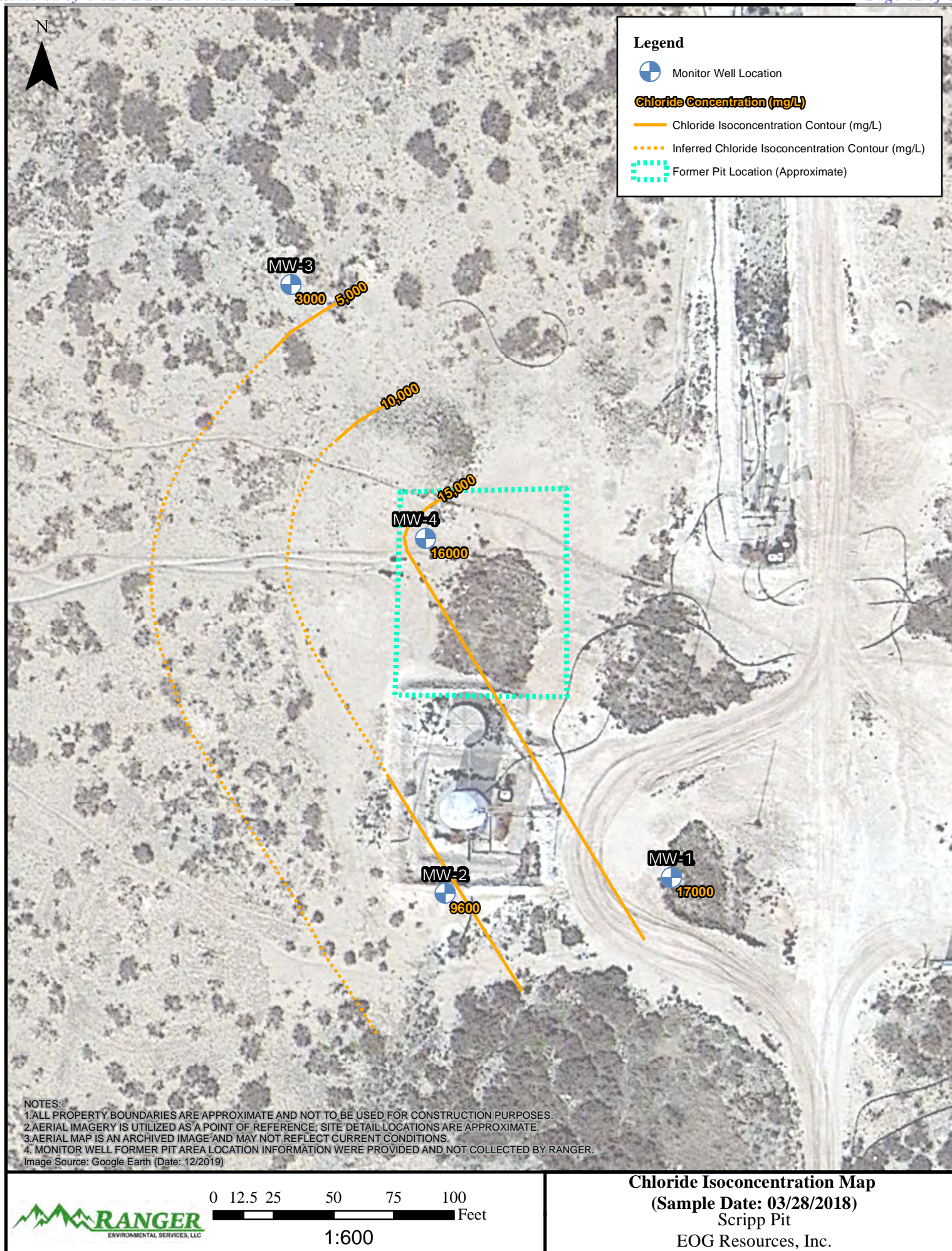




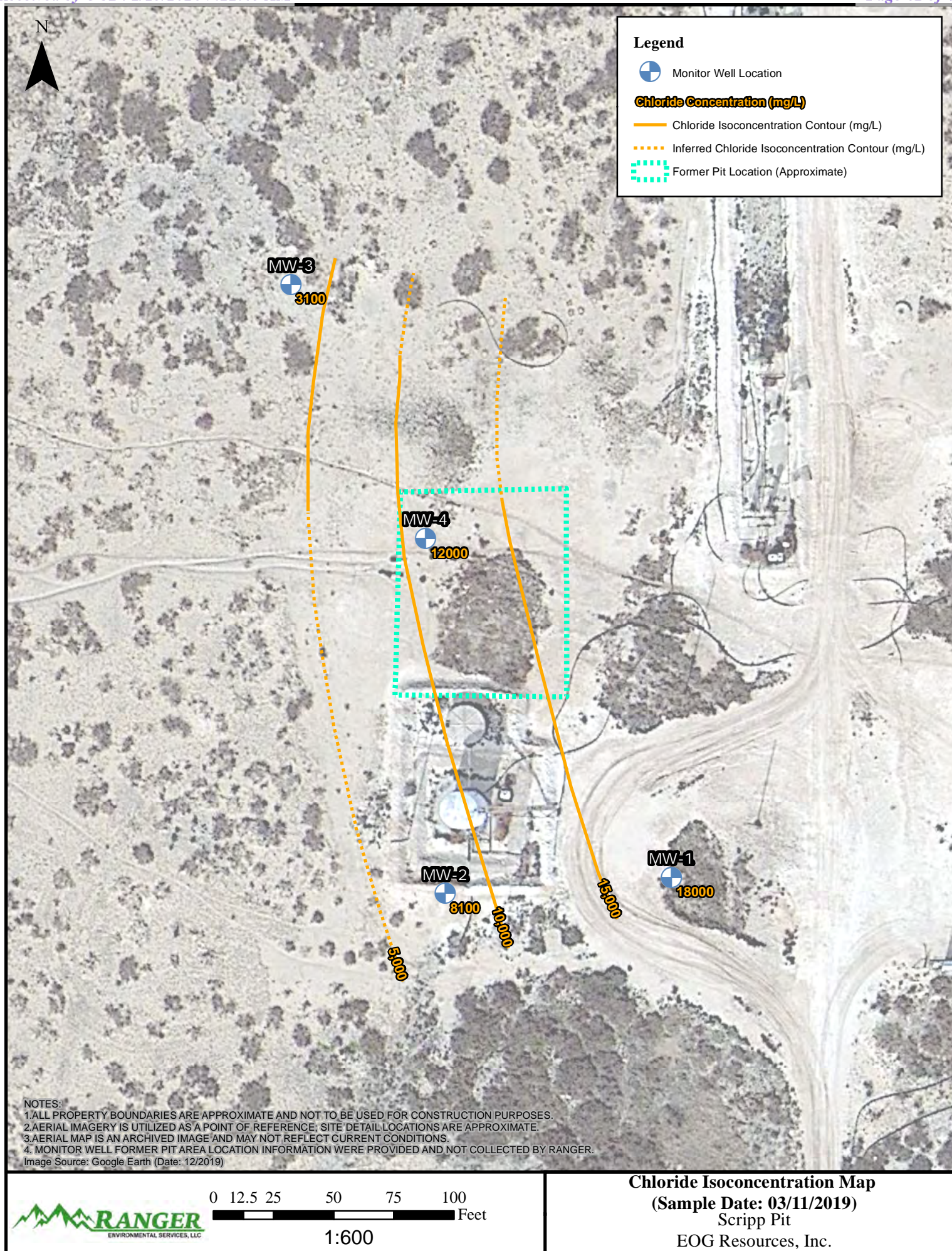




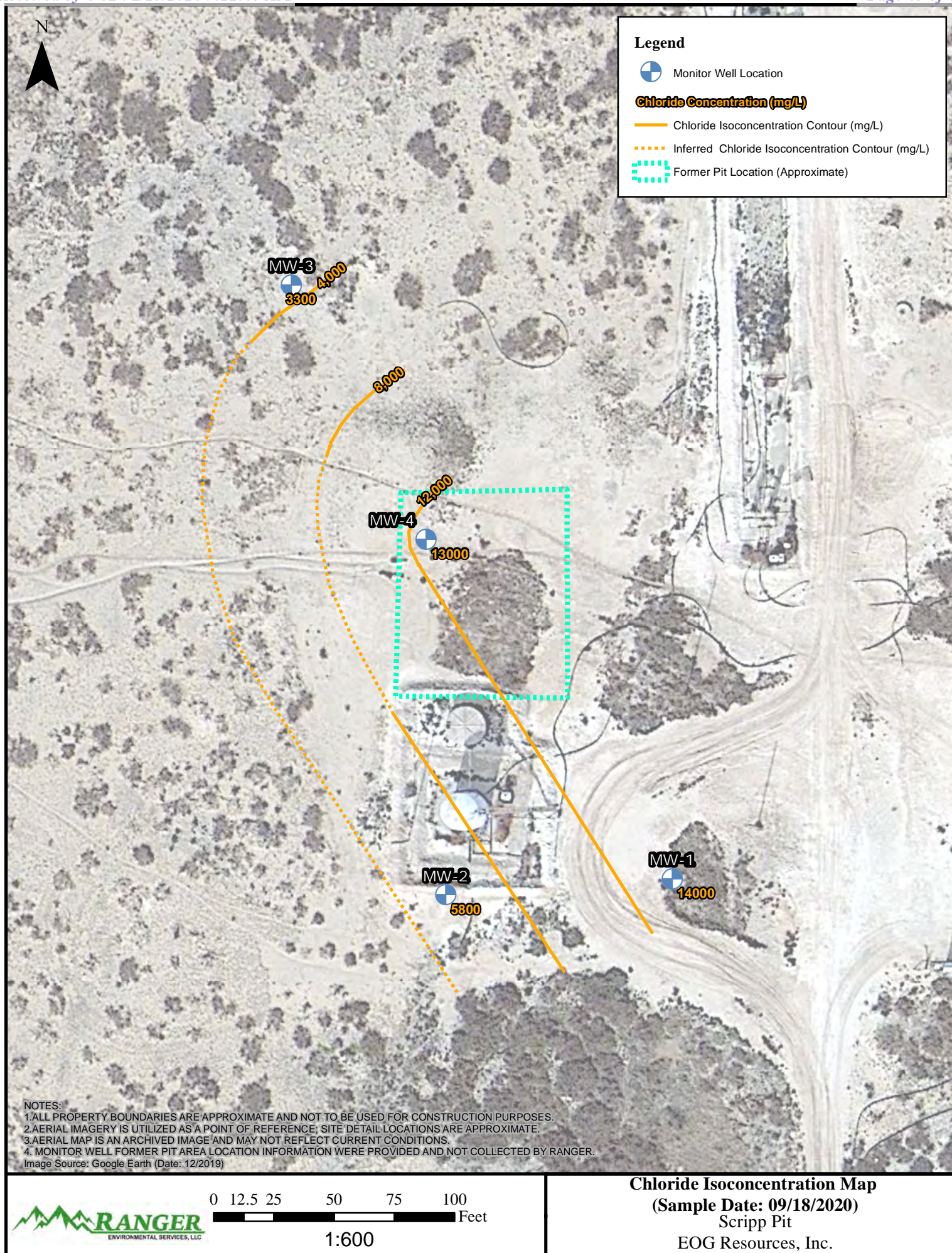




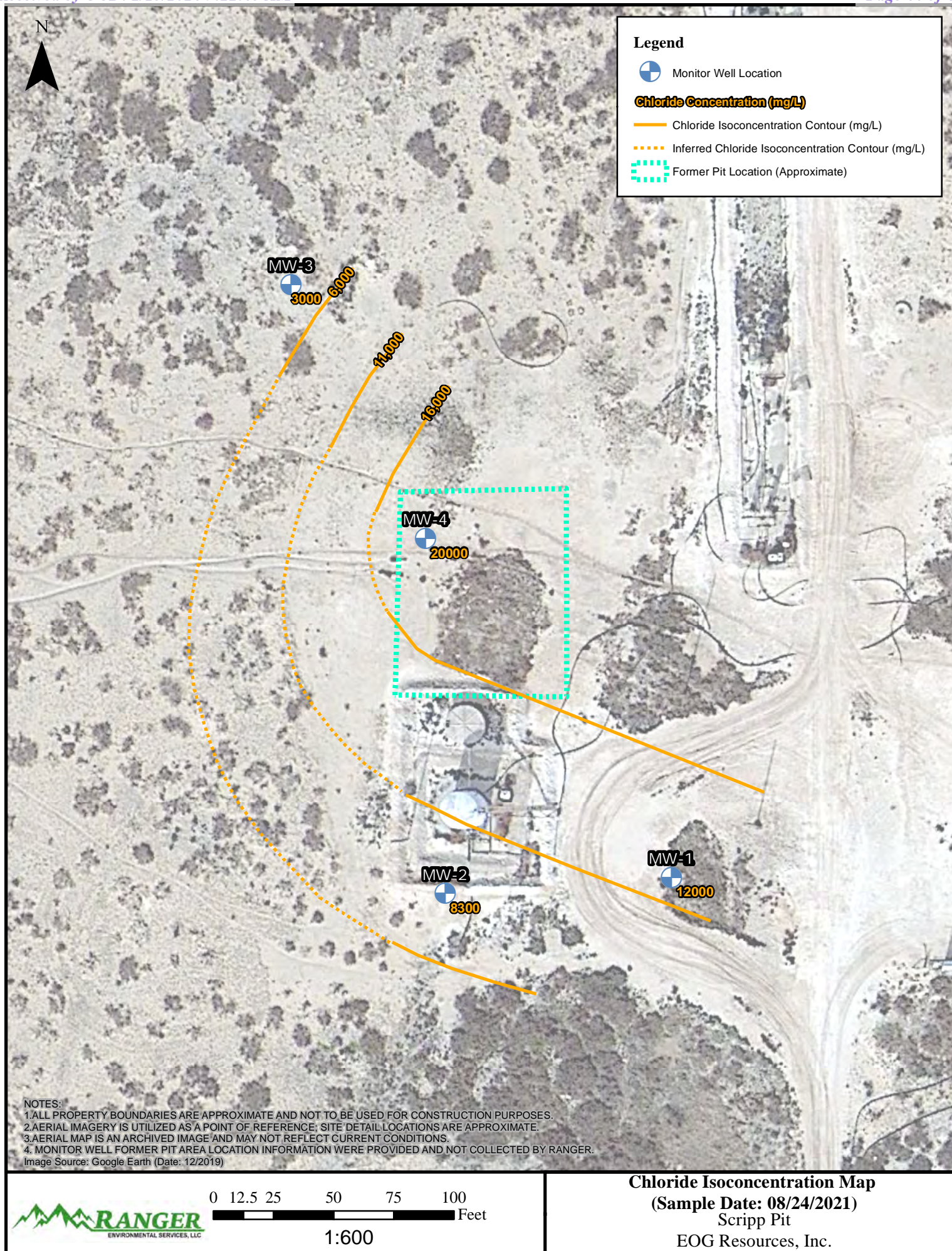




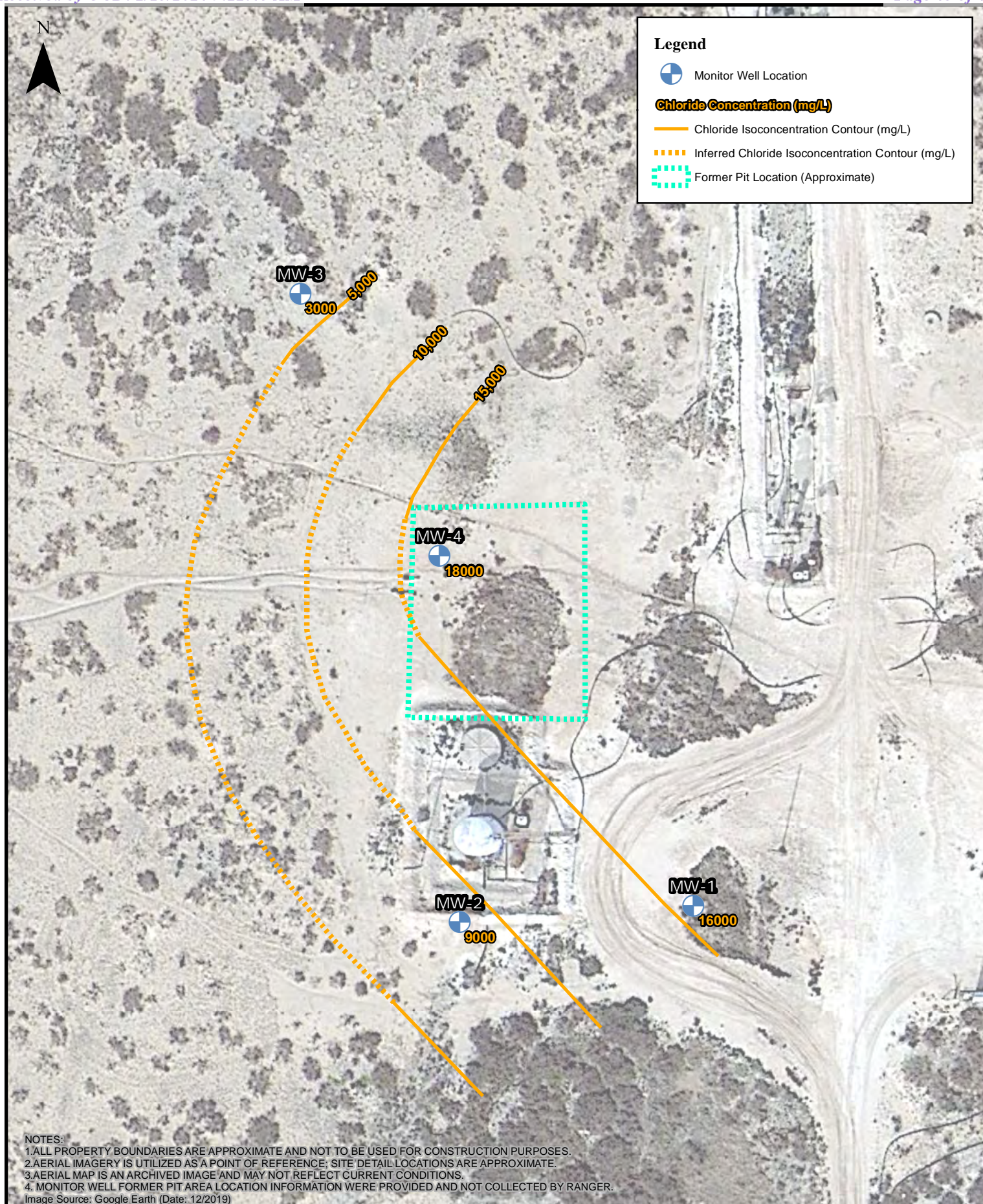






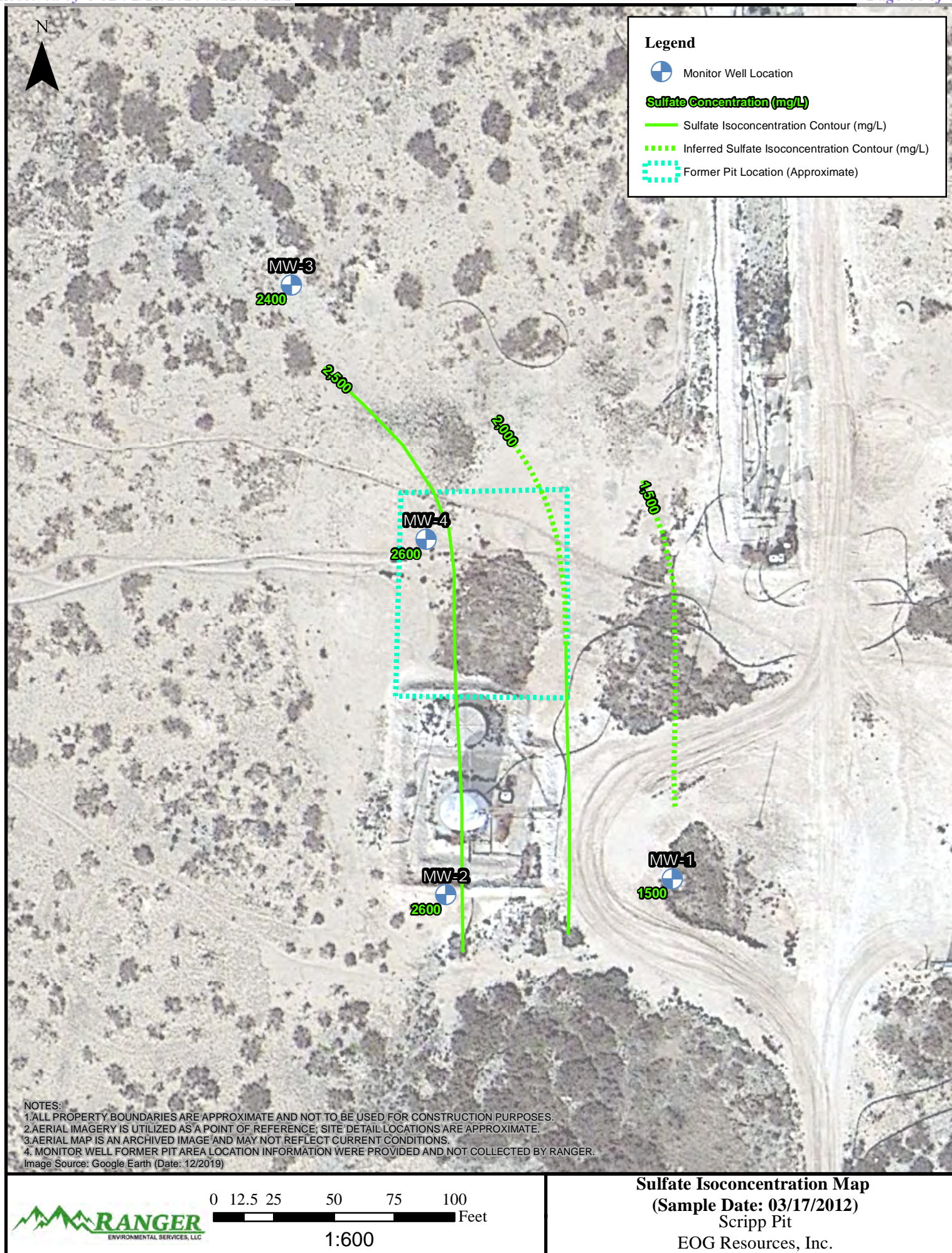




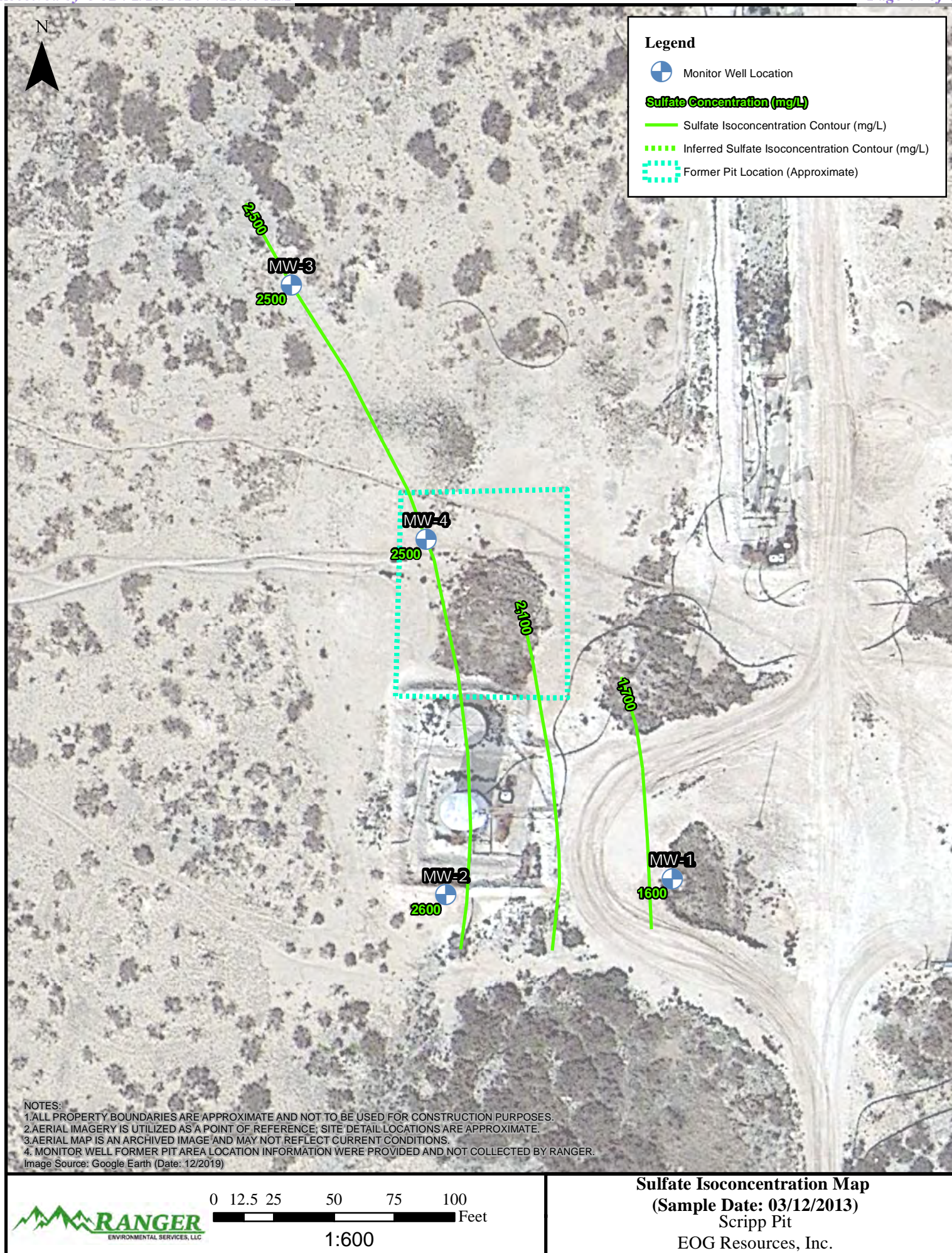


**Chloride Isoconcentration Map**  
 (Sample Date: 03/22/2022)  
 Scripp Pit  
 EOG Resources, Inc.

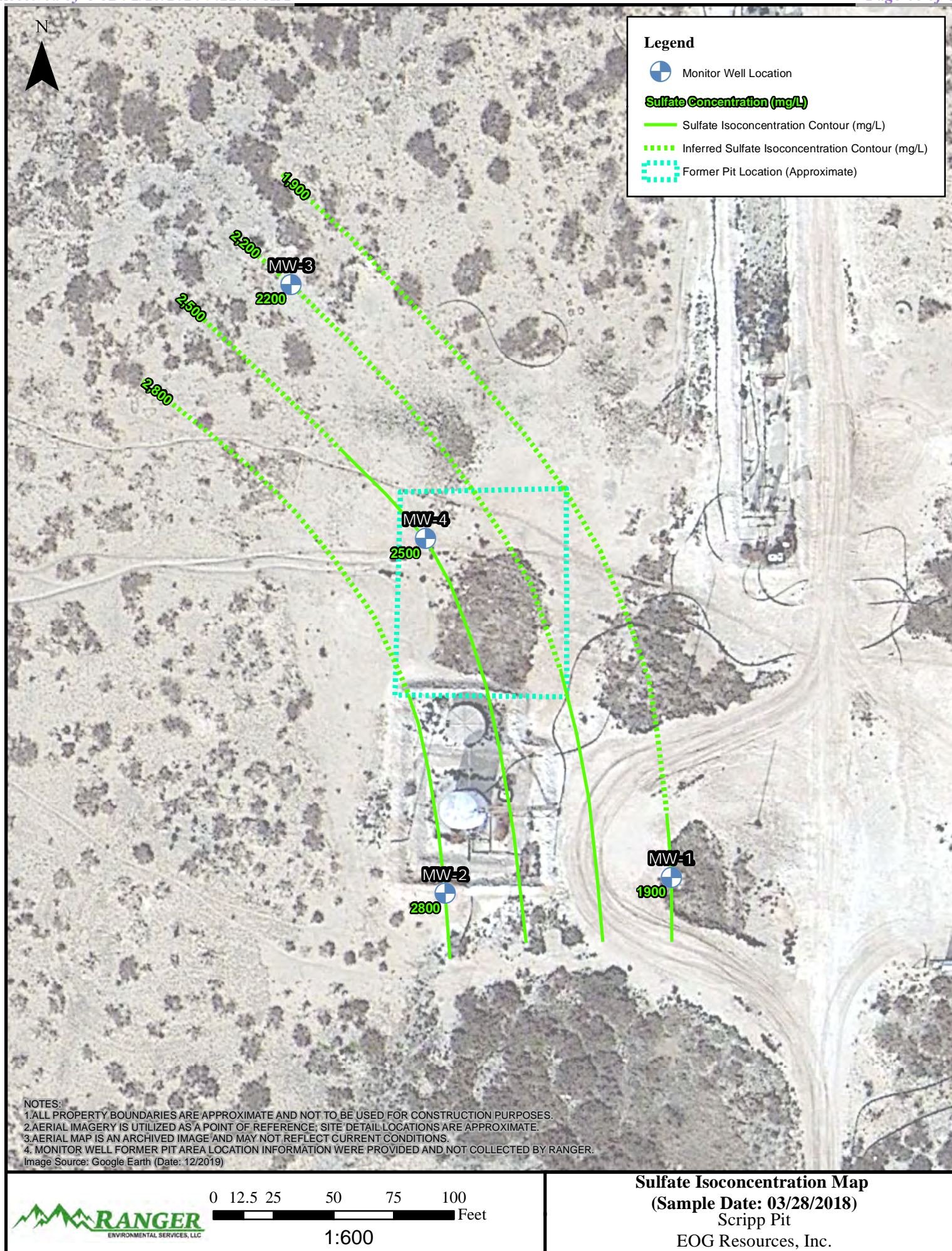




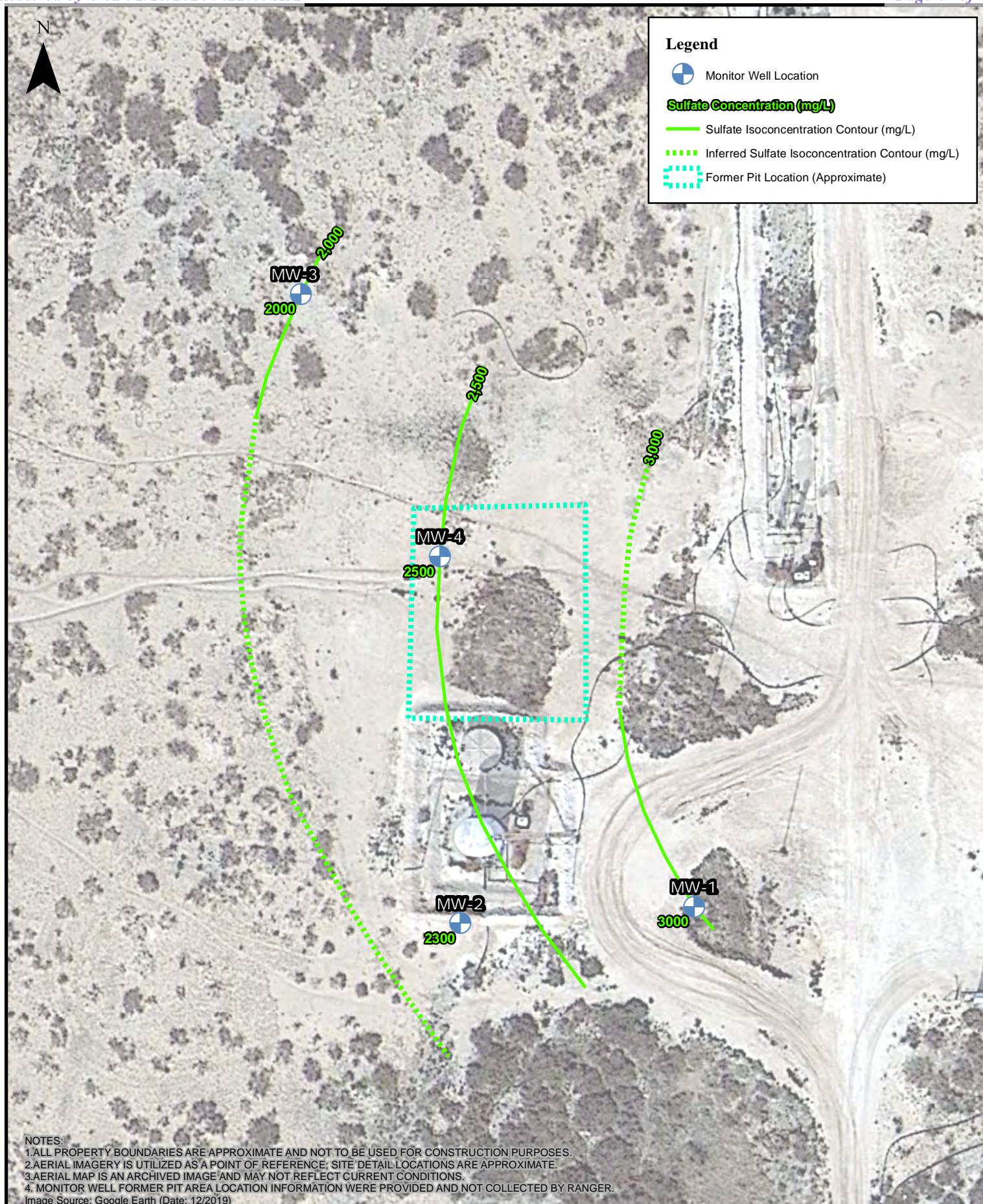








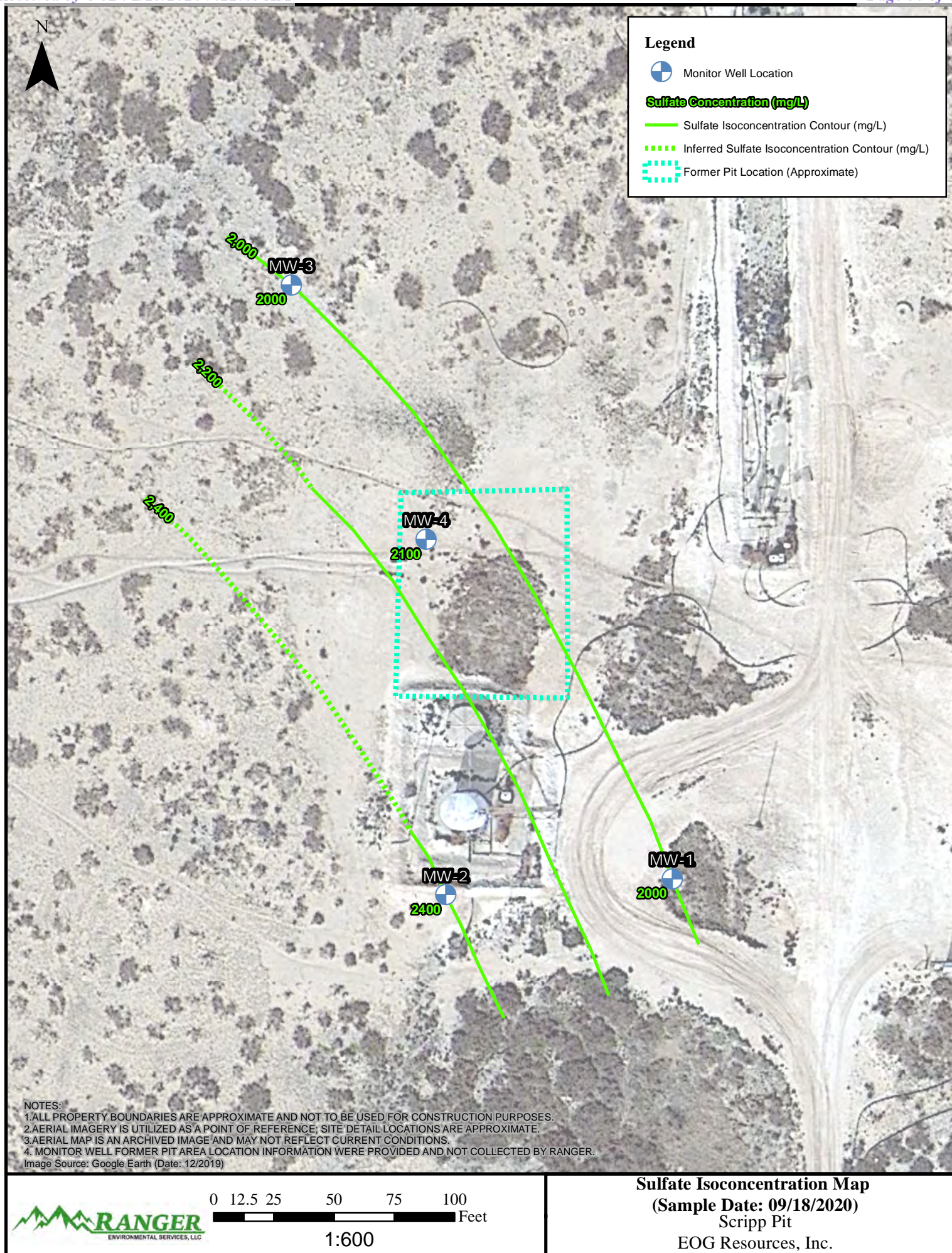




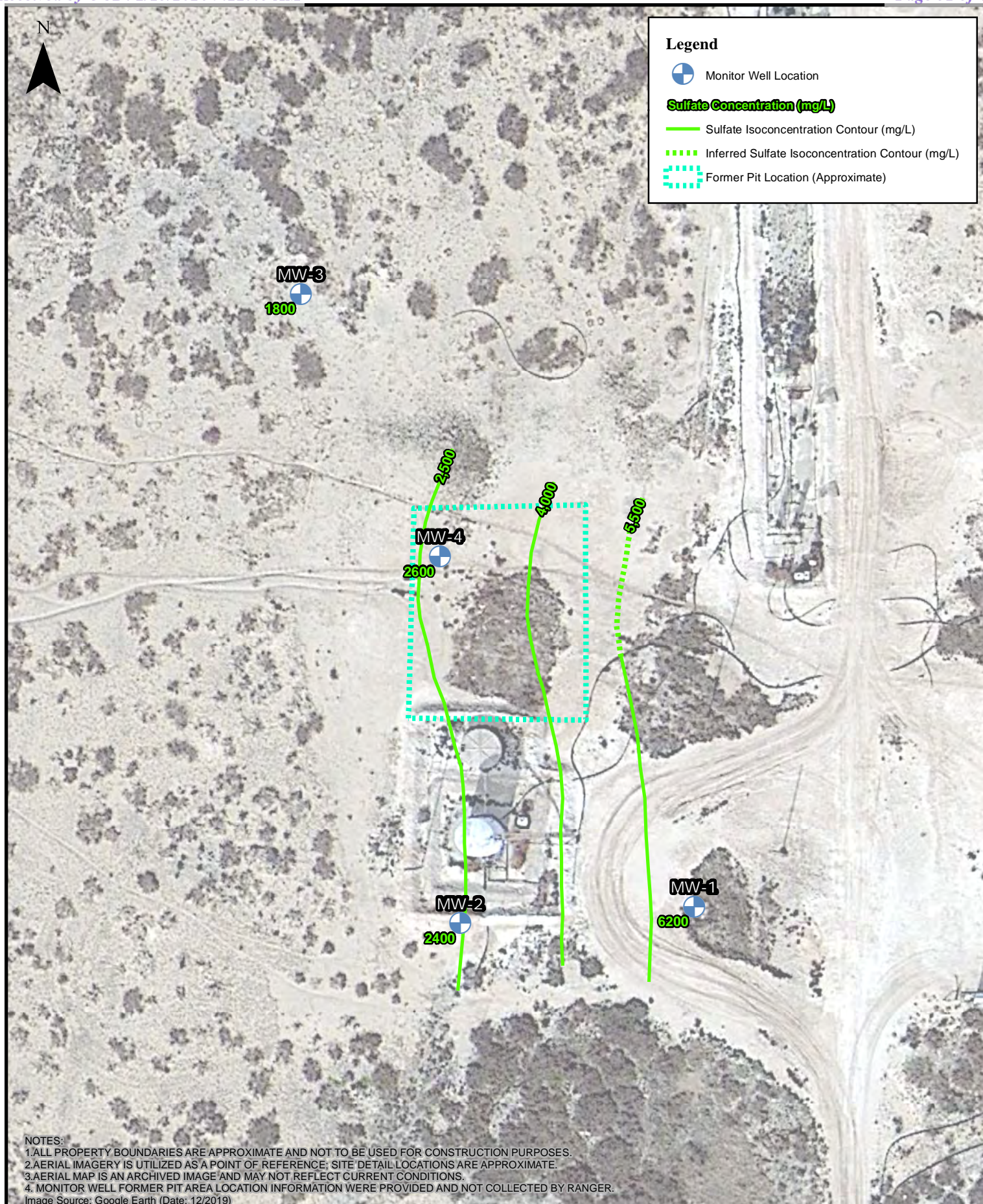
0 12.5 25 50 75 100 Feet  
1:600

**Sulfate Isoconcentration Map**  
(Sample Date: 03/11/2019)  
Scripp Pit  
EOG Resources, Inc.







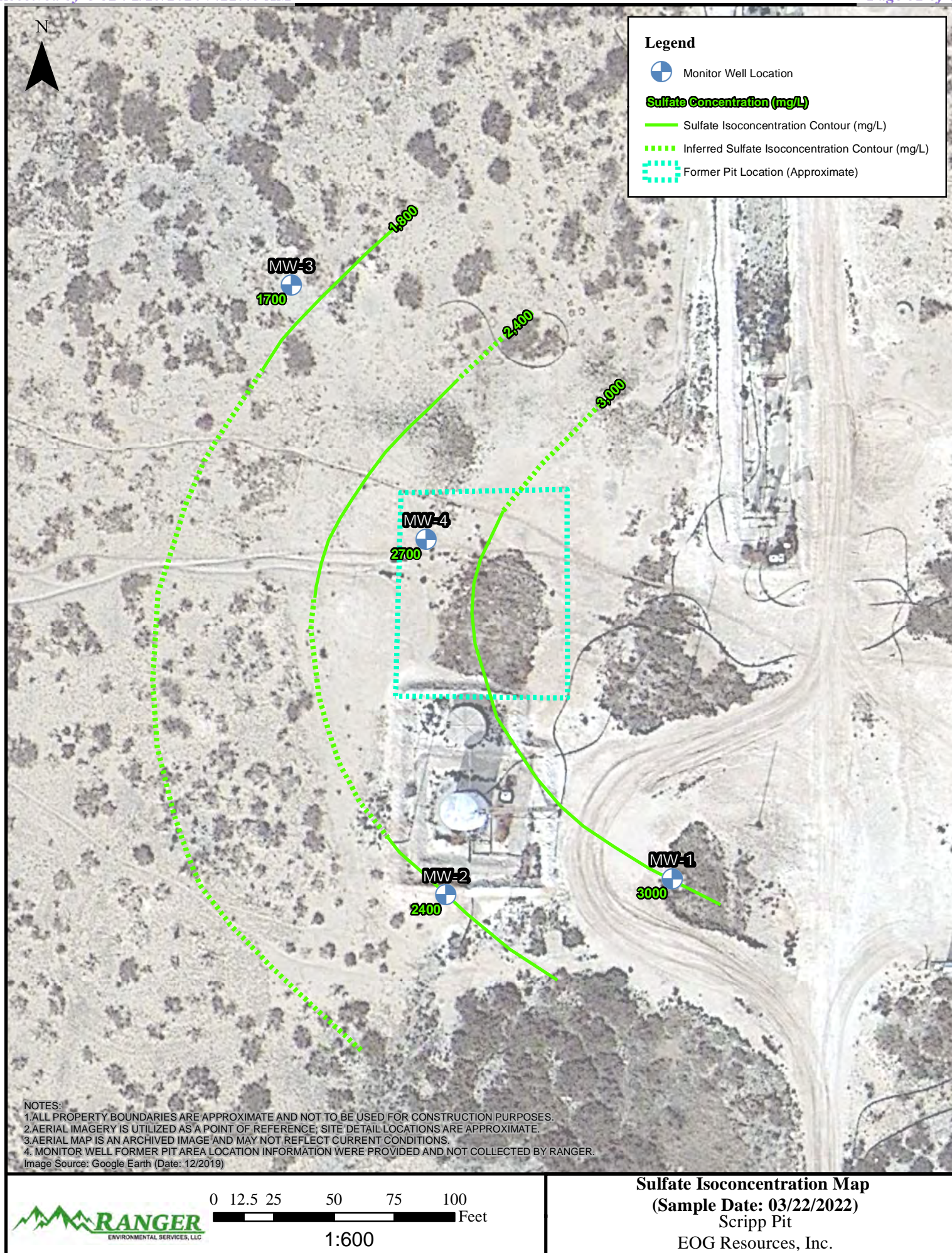


0 12.5 25 50 75 100 Feet

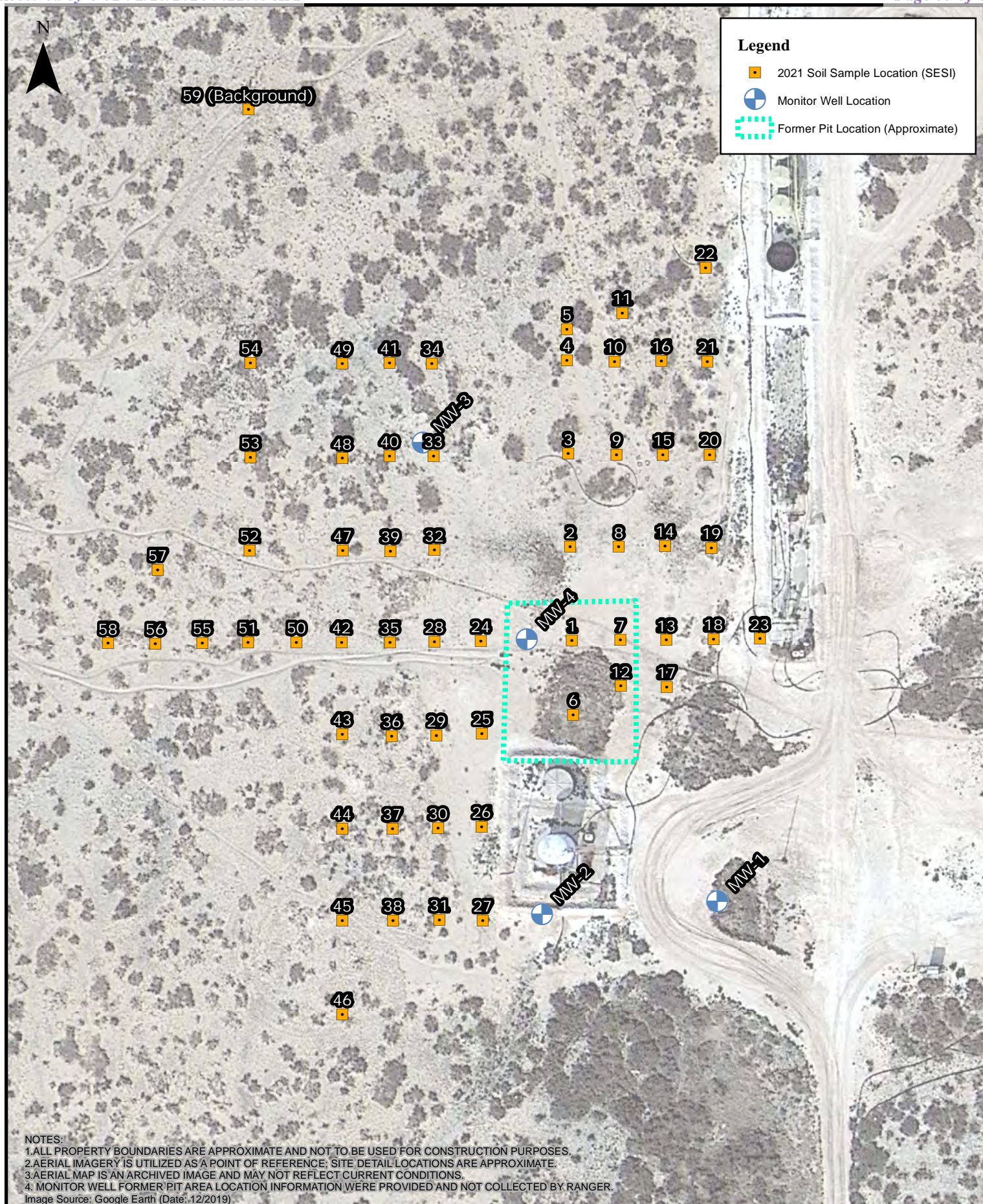
1:600

**Sulfate Isoconcentration Map**  
**(Sample Date: 08/24/2021)**  
 Scripp Pit  
 EOG Resources, Inc.





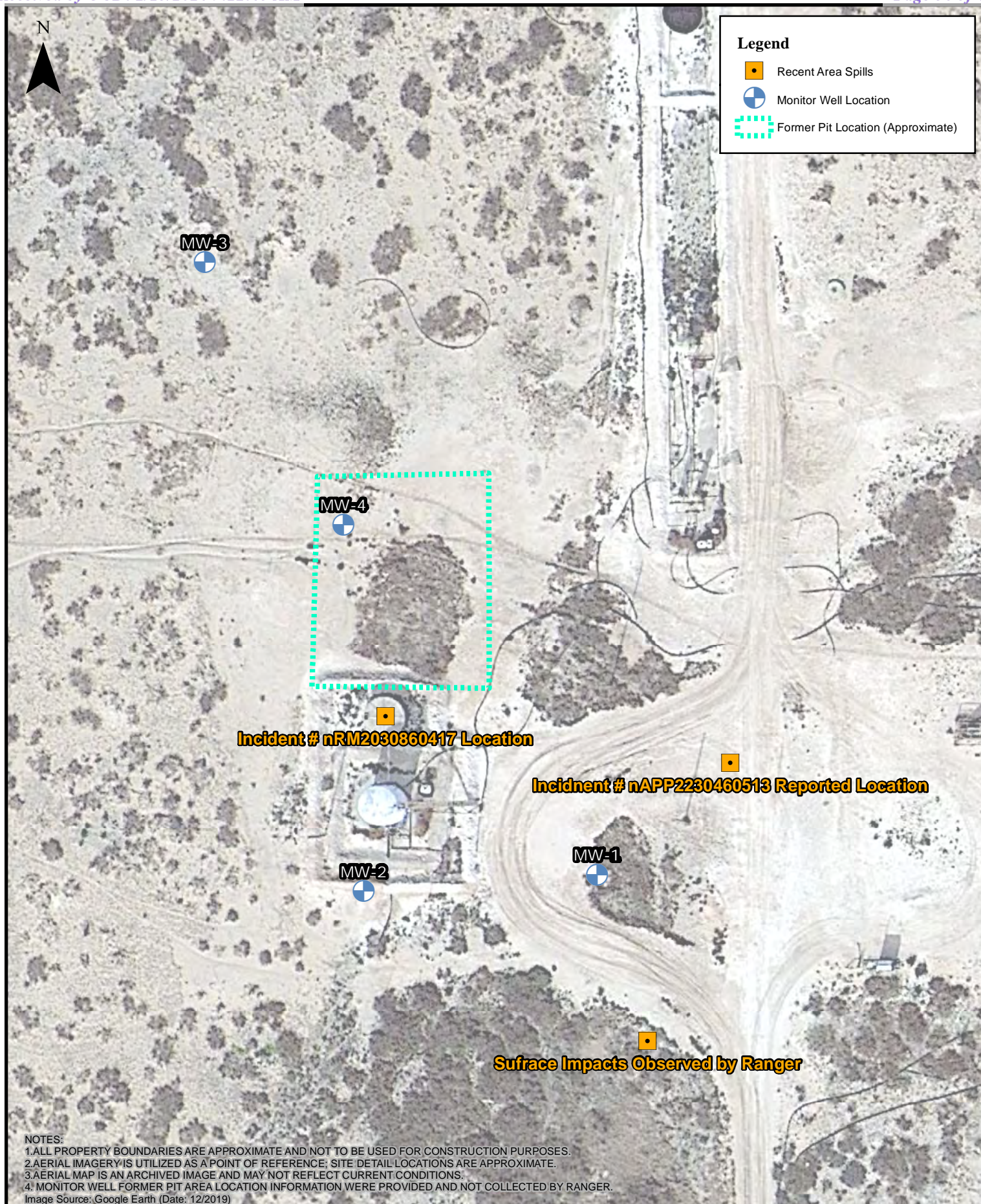




0 15 30 60 90 120 Feet  
1:800

**May 2021 Soil Sample Location Map**  
Scripp Pit  
EOG Resources, Inc.







## TABLES

Well Gauging Data

Groundwater EPA Method 300.0: Anions

Groundwater Dissolved Metals (Table 1 of 2)

Groundwater Dissolved Metals (Table 2 of 2)

Groundwater TPH and VOC Data Summary

Groundwater Specific Conductance, pH, Alkalinity, and TDS

Soil TPH, BTEX & Chloride Data Summary



**WELL GAUGING DATA  
SCRIPP PIT  
EDDY COUNTY, NEW MEXICO  
AP-25**

<b>WELL NUMBER</b>	<b>DATE</b>	<b>CASING ELEV. (FT)</b>	<b>DEPTH TO WATER (FT-BTOC)</b>	<b>LNAPL THICKNESS (FT)</b>	<b>GW ELEVATION (FT)</b>	<b>SCREENED INTERVAL (FT-BGS)</b>
MW-1	9/18/2002	3,287.52	41.18	0.00	3246.34	23'-38'
MW-1	9/19/2002	3,287.52	41.25	0.00	3246.27	23'-38'
MW-1	11/8/2004	3,287.52	41.16	0.00	3246.36	23'-38'
MW-1	12/1/2004	3,287.52	41.00	0.00	3246.52	23'-38'
MW-1	12/15/2004	3,287.52	40.91	0.00	3246.61	23'-38'
MW-1	12/21/2004	3,287.52	40.87	0.00	3246.65	23'-38'
MW-1	12/30/2004	3,287.52	40.84	0.00	3246.68	23'-38'
MW-1	3/6/2018	3,287.52	34.72	0.00	3252.80	23'-38'
MW-1	3/28/2018	3,287.52	34.61	0.00	3252.91	23'-38'
MW-1	3/11/2019	3,288.79	35.44	0.00	3253.35	23'-38'
MW-1	10/29/2019	3,288.79	35.86	0.00	3252.93	23'-38'
MW-1	9/18/2020	3,288.79	36.60	0.00	3252.19	23'-38'
MW-1	8/24/2021	3,288.79	34.72	0.00	3254.07	23'-38'
MW-2	9/18/2002	3287.91	41.95	0.00	3245.96	30'-45'
MW-2	9/19/2002	3287.91	41.95	0.00	3245.96	30'-45'
MW-2	11/8/2004	3287.91	42.00	0.00	3245.91	30'-45'
MW-2	12/1/2004	3287.91	41.81	0.00	3246.10	30'-45'
MW-2	12/15/2004	3287.91	41.73	0.00	3246.18	30'-45'
MW-2	12/21/2004	3287.91	41.72	0.00	3246.19	30'-45'
MW-2	12/30/2004	3287.91	41.68	0.00	3246.23	30'-45'
MW-2	3/6/2018	3287.91	35.65	0.00	3252.26	30'-45'
MW-2	3/28/2018	3287.91	35.52	0.00	3252.39	30'-45'
MW-2	3/11/2019	3289.17	36.34	0.00	3252.83	30'-45'
MW-2	10/29/2019	3289.17	---	---	---	30'-45'
MW-2	9/18/2020	3289.17	37.42	0.00	3251.75	30'-45'
MW-2	8/24/2021	3289.17	35.88	0.00	3253.29	30'-45'
MW-3	9/18/2002	3288.79	42.84	0.00	3245.95	35'-50'
MW-3	9/19/2002	3288.79	42.86	0.00	3245.93	35'-50'
MW-3	11/8/2004	3288.79	42.90	0.00	3245.89	35'-50'
MW-3	12/1/2004	3288.79	42.73	0.00	3246.06	35'-50'
MW-3	12/15/2004	3288.79	42.65	0.00	3246.14	35'-50'
MW-3	12/21/2004	3288.79	42.58	0.00	3246.21	35'-50'
MW-3	12/30/2004	3288.79	42.52	0.00	3246.27	35'-50'
MW-3	3/6/2018	3288.79	36.08	0.00	3252.71	35'-50'
MW-3	3/28/2018	3288.79	35.92	0.00	3252.87	35'-50'



**WELL GAUGING DATA  
SCRIPP PIT  
EDDY COUNTY, NEW MEXICO  
AP-25**

<b>WELL NUMBER</b>	<b>DATE</b>	<b>CASING ELEV. (FT)</b>	<b>DEPTH TO WATER (FT-BTOC)</b>	<b>LNAPL THICKNESS (FT)</b>	<b>GW ELEVATION (FT)</b>	<b>SCREENED INTERVAL (FT-BGS)</b>
MW-3	3/11/2019	3290.08	36.85	0.00	3253.23	35'-50'
MW-3	10/29/2019	3290.08	37.78	0.00	3252.30	35'-50'
MW-3	9/18/2020	3290.08	38.12	0.00	3251.96	35'-50'
MW-3	8/24/2021	3290.08	36.21	0.00	3253.87	35'-50'
MW-4	9/18/2002	3288.25	41.28	0.00	3246.97	40'-55'
MW-4	9/19/2002	3288.25	42.32	0.00	3245.93	40'-55'
MW-4	11/8/2004	3288.25	42.37	0.00	3245.88	40'-55'
MW-4	12/1/2004	3288.25	42.26	0.00	3245.99	40'-55'
MW-4	12/15/2004	3288.25	42.15	0.00	3246.10	40'-55'
MW-4	12/21/2004	3288.25	42.12	0.00	3246.13	40'-55'
MW-4	12/30/2004	3288.25	42.08	0.00	3246.17	40'-55'
MW-4	3/6/2018	3288.25	35.67	0.00	3252.58	40'-55'
MW-4	3/28/2018	3288.25	35.51	0.00	3252.74	40'-55'
MW-4	3/11/2019	3289.52	36.36	0.00	3253.16	40'-55'
MW-4	10/29/2019	3289.52	37.27	0.00	3252.25	40'-55'
MW-4	9/18/2020	3289.52	37.62	0.00	3251.90	40'-55'
MW-4	8/24/2021	3289.52	35.62	0.00	3253.90	40'-55'

## Notes:

1. Elevations referenced to a temporary on-site benchmark.
2. BTOC = below top of casing



GROUNDWATER EPA METHOD 300.0: ANIONS SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25									
All Values Presented in Parts Per Million (mg/L) unless otherwise noted									
SAMPLE ID	DATE	Fluoride	Chloride	Bromide	Phosphorus, Orthophosphate (As P)	Sulfate	Nitrogen, Nitrite (As N)	Nitrogen, Nitrate (As N)	Nitrate+Nitrite as N
SB-2	10/21/2000	---	25,170	---	---	---	---	---	---
MW-1	9/19/2002	---	8,150	---	---	---	---	---	---
MW-1	11/8/2004	---	3,999	---	---	---	---	---	---
MW-1	3/17/2012	< 2.0	10,000	5.6	< 10	1,500	---	---	< 10
MW-1	6/18/2012	< 2.0	13,000	4.8	< 10	1,700	---	---	< 10
MW-1	9/12/2012	< 2.0	11,000	7	< 25	1,500	---	---	< 10
MW-1	12/7/2012	< 2.0	9,500	3.6	< 10	1,400	---	---	< 20
MW-1	3/12/2013	< 2.0	15,000	7.9	< 10	1,600	---	---	< 10
MW-1	6/27/2013	< 2.0	9,100	8.6	< 10	1,300	---	---	< 4.0
MW-1	3/28/2018	< 2.0	17,000	15	< 10	1,900	---	---	< 20
MW-1	3/11/2019	< 2.0	18,000	12	< 10	3,000	---	---	27
MW-1	10/29/2019	< 2.0	12,000	5	< 10	10,000	---	---	16
MW-1	9/18/2020	< 0.50	14,000	14	< 2.5	2,000	---	---	15
MW-1	8/24/2021	< 2.0	12,000	7.2	< 10	6,200	---	---	16
MW-1	3/22/2022	< 2.0	16,000	12	< 10	3,000	---	---	20
MW-1	8/3/2022	< 2.0	14,000	14	< 10	2,400	---	---	20
MW-2	9/19/2002	---	6,560	---	---	---	---	---	---
MW-2	11/8/2004	---	4,699	---	---	---	---	---	---
MW-2	3/17/2012	< 2.0	7,300	2.5	< 10	2,600	---	---	< 4.0
MW-2	6/18/2012	< 2.0	6,500	2.2	< 10	2,600	---	---	< 4.0
MW-2	9/12/2012	< 2.0	6,900	2	< 50	2,700	---	---	< 4.0
MW-2	12/7/2012	< 2.0	5,300	< 2.0	< 10	2,400	---	---	< 10
MW-2	3/12/2013	< 2.0	6,000	3.7	< 10	2,600	---	---	< 4.0
MW-2	6/27/2013	< 2.0	5,500	< 2.0	< 10	2,700	---	---	< 4.0
MW-2	3/28/2018	< 2.0	9,600	4.3	< 10	2,800	---	---	< 10
MW-2	3/11/2019	< 2.0	8,100	3.3	< 10	2,300	---	---	< 10
MW-2	10/29/2019	---	---	---	---	---	---	---	---
MW-2	9/18/2020	< 2.0	5,800	3.5	< 0.50	2,400	---	---	< 4.0
MW-2	8/24/2021	< 2.0	8,300	3.5	< 10	2,400	---	---	< 10
MW-2	3/22/2022	< 2.0	9,000	5	< 10	2,400	---	---	< 10
MW-2	8/3/2022	< 2.0	8,200	5.2	< 10	2,900	---	---	< 10
MW-3	9/19/2002	---	4,700	---	---	---	---	---	---
MW-3	11/8/2004	---	5,098	---	---	---	---	---	---
MW-3	3/17/2012	< 2.0	4,000	2.2	< 10	2,400	---	---	< 4.0
MW-3	6/18/2012	< 2.0	4,000	2	< 10	2,400	---	---	< 4.0
MW-3	9/12/2012	< 2.0	3,900	< 2.0	< 25	2,400	---	---	< 4.0
MW-3	12/7/2012	---	---	---	---	---	---	---	---
MW-3	3/12/2013	< 2.0	4,100	3.1	< 10	2,500	---	---	< 4.0
MW-3	6/27/2013	1.3	3,200	2.7	< 5.0	2,300	---	---	< 4.0
MW-3	3/28/2018	< 1.0	3,000	2.3	< 5.0	2,200	---	---	< 1.0
MW-3	3/11/2019	< 2.0	3,100	2.1	< 10	2,000	---	---	< 2.0
MW-3	10/29/2019	0.53	3,600	2.3	< 2.5	2,100	<2.0	<0.50	---
MW-3	9/18/2020	< 2.0	3,300	2.4	< 0.50	2,000	---	---	< 4.0
MW-3	8/24/2021	< 2.0	3,000	1.9	< 0.50	1,800	<2.0	0.41	---
MW-3	3/22/2022	< 2.0	3,000	< 2.0	< 10	1,700	---	---	< 4.0
MW-3	8/3/2022	< 2.0	3,400	2.6	< 10	2,000	---	---	< 4.0
MW-4	9/19/2002	---	38,100	---	---	---	---	---	---
MW-4	11/8/2004	---	32,990	---	---	---	---	---	---
MW-4	3/17/2012	2.2	17,000	6.4	< 10	2,600	---	---	< 20
MW-4	6/18/2012	< 2.0	21,000	< 2.0	< 10	2,600	---	---	< 10
MW-4	9/12/2012	< 2.0	23,000	6.3	< 50	2,500	---	---	< 20
MW-4	12/7/2012	< 2.0	19,000	< 2.0	< 10	2,400	---	---	< 20
MW-4	3/12/2013	< 2.0	19,000	7.7	< 10	2,500	---	---	< 10
MW-4	6/27/2013	< 1.0	16,000	7.3	< 5.0	2,300	---	---	< 10
MW-4	3/28/2018	< 1.0	16,000	5.7	< 5.0	2,500	---	---	< 10
MW-4	3/11/2019	< 2.0	12,000	4.4	< 10	2,500	---	---	< 10
MW-4	10/29/2019	< 0.50	15,000	4.3	< 2.5	2,100	---	---	< 10
MW-4	9/18/2020	< 0.50	13,000	5.6	< 2.5	2,100	---	---	< 20
MW-4	8/24/2021	< 0.50	20,000	7.2	< 2.5	2,600	---	---	< 20
MW-4	3/22/2022	< 2.0	18,000	8.1	< 25	2,700	---	---	< 20
MW-4	8/3/2022	< 2.0	18,000	13	< 10	2,600	---	---	< 20
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)									
A. Human Health Standards									
		1.6					1	10	10 <sup>1</sup>
B. Other Standards for Domestic Water Supply									
			250			600			
C. Standards for Irrigation Use									
Notes:									
1. This standard is for nitrate. The nitrite standard is 1.0 mg/L.									
2. Exceedances of the listed closure criteria are highlighted in bold, red type.									



GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2)  
SCRIPP PIT  
EDDY COUNTY, NEW MEXICO  
AP-25

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Aluminum	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Iron	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Zinc
MW-1	3/17/2012	---	0.047	---	---	< 0.0020	3,300	< 0.0060	---	0.024	1,300	< 0.0020	---	---	6.7	< 0.0050	930	0.041
MW-1	6/18/2012	---	0.044	---	---	< 0.0020	3,300	< 0.0060	---	0.045	1,200	< 0.0020	---	---	5.2	< 0.0050	970	0.016
MW-1	9/12/2012	---	0.044	---	---	< 0.0020	3,100	< 0.0060	---	0.027	1,200	< 0.0020	---	---	6.2	< 0.0050	970	0.014
MW-1	12/7/2012	---	0.049	---	---	< 0.0020	2,700	< 0.0060	---	0.028	1,000	< 0.0020	---	---	10	< 0.0050	910	0.025
MW-1	3/12/2013	---	0.046	---	---	< 0.0020	3,200	0.0068	---	< 0.020	1,200	< 0.0020	---	---	6.7	< 0.0050	900	0.016
MW-1	6/27/2013	---	0.047	---	---	< 0.0020	3,600	0.0074	---	< 0.020	1,200	< 0.0020	---	---	6.6	< 0.25	1,000	0.019
MW-1	3/28/2018	< 0.10	0.04	< 0.010	---	< 0.010	3,500	< 0.030	< 0.030	< 0.10	2,600	< 0.010	< 0.040	< 0.050	6.8	0.11	5,500	< 0.050
MW-1	3/11/2019	< 0.020	0.024	< 0.0020	0.17	< 0.0020	1,900	< 0.0060	< 0.0060	0.035	2,800	< 0.0020	< 0.0080	< 0.010	6.3	0.028	6,400	0.017
MW-1	10/29/2019	< 0.020	0.013	0.0024	---	< 0.0020	810	< 0.0060	< 0.0060	< 0.020	2,200	0.0046	< 0.0080	< 0.010	22	0.019	7,500	0.047
MW-1	9/18/2020	< 0.10	0.034	< 0.010	0.21	< 0.010	2,500	< 0.030	< 0.030	< 0.10	1,900	0.015	< 0.040	< 0.050	7.1	< 0.025	4,400	0.056
MW-1	8/24/2021	< 0.20	< 0.020	< 0.020	< 0.40	< 0.020	900	< 0.060	< 0.060	< 0.10	1,900	< 0.020	< 0.080	< 0.10	6.4	< 0.050	6,200	< 0.10
MW-1	3/22/2022	< 0.10	0.019	< 0.010	0.29	< 0.010	1,800	< 0.030	< 0.030	< 0.10	2,200	< 0.010	< 0.040	< 0.050	6.5	< 0.025	6,400	< 0.050
MW-1	8/3/2022	< 0.020	0.028	< 0.0020	0.24	< 0.0020	2,300	< 0.0060	< 0.0060	< 0.020	2,100	< 0.0020	< 0.0080	< 0.010	6.5	0.038	5,100	0.098
MW-2	3/17/2012	---	0.016	---	---	< 0.0020	1,000	< 0.0060	---	0.058	540	0.017	---	---	12	< 0.0050	3,500	0.019
MW-2	6/18/2012	---	0.018	---	---	< 0.010	1,000	< 0.030	---	< 0.10	480	0.022	---	---	10	< 0.025	3,400	< 0.050
MW-2	9/12/2012	---	0.014	---	---	< 0.0020	950	< 0.0060	---	0.054	510	0.0097	---	---	8.8	< 0.0050	3,100	< 0.010
MW-2	12/7/2012	---	0.015	---	---	< 0.0020	840	< 0.0060	---	0.056	480	0.014	---	---	16	< 0.0050	3,300	< 0.010
MW-2	3/12/2013	---	0.014	---	---	< 0.0020	830	< 0.0060	---	0.06	460	0.026	---	---	12	< 0.0050	3,100	0.012
MW-2	6/27/2013	---	0.015	---	---	< 0.0020	1,100	< 0.0060	---	0.05	550	0.019	---	---	8.1	< 0.10	3,500	< 0.010
MW-2	3/28/2018	< 0.10	0.02	< 0.010	---	< 0.010	860	< 0.030	< 0.030	< 0.10	460	0.071	< 0.040	< 0.050	15	0.04	5,400	< 0.050
MW-2	3/11/2019	< 0.020	0.015	< 0.0020	---	< 0.0020	840	< 0.0060	< 0.0060	0.047	450	0.13	< 0.0080	< 0.010	13	0.014	4,600	0.043
MW-2	10/29/2019	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	9/18/2020	< 0.10	0.013	< 0.010	0.45	< 0.010	980	< 0.030	< 0.030	< 0.10	520	0.041	< 0.040	< 0.050	12	< 0.025	3,300	< 0.050
MW-2	8/24/2021	< 0.10	0.014	< 0.010	0.57	< 0.010	940	< 0.030	< 0.030	< 0.020	500	0.021	< 0.040	< 0.050	19	< 0.025	4,700	< 0.050
MW-2	3/22/2022	< 0.10	0.012	< 0.010	0.64	< 0.010	1,100	< 0.030	< 0.030	< 0.020	560	0.015	< 0.040	< 0.050	21	< 0.025	6,200	< 0.050
MW-2	8/3/2022	< 0.020	0.015	< 0.0020	0.61	< 0.0020	1,100	< 0.0060	< 0.0060	0.086	540	0.024	< 0.0080	< 0.010	16	0.02	5,300	0.052
MW-3	3/17/2012	---	0.016	---	---	< 0.0020	610	< 0.0060	---	0.43	350	0.12	---	---	8.6	< 0.0050	2,400	0.013
MW-3	6/18/2012	---	0.014	---	---	< 0.010	610	< 0.030	---	0.15	370	0.057	---	---	9	< 0.025	2,200	< 0.050
MW-3	9/12/2012	---	0.015	---	---	< 0.0020	550	< 0.0060	---	0.039	340	0.041	---	---	7.5	< 0.0050	2,200	< 0.010
MW-3	12/7/2012	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/12/2013	---	0.015	---	---	< 0.0020	560	< 0.0060	---	0.043	340	0.058	---	---	10	< 0.0050	2,100	0.042
MW-3	6/27/2013	---	0.015	---	---	< 0.0020	680	< 0.0060	---	0.082	400	0.029	---	---	7.9	< 0.25	2,700	< 0.010
MW-3	3/28/2018	< 0.10	0.019	< 0.010	---	< 0.010	580	< 0.030	< 0.030	0.38	380	0.36	< 0.040	< 0.050	6.6	0.027	1,900	< 0.050
MW-3	3/11/2019	< 0.020	0.012	< 0.0020	---	< 0.0020	560	< 0.0060	< 0.0060	0.32	350	0.18	< 0.0080	< 0.010	7	0.01	1,800	0.016
MW-3	10/29/2019	< 0.020	0.014	0.0028	---	< 0.0020	760	< 0.0060	< 0.0060	0.28	460	0.16	< 0.0080	< 0.010	8.5	0.019	2,100	0.021
MW-3	9/18/2020	< 0.10	0.011	< 0.010	0.36	< 0.010	680	< 0.030	< 0.030	< 0.10	410	0.07	< 0.040	< 0.050	8.4	< 0.025	1,900	< 0.050
MW-3	8/24/2021	< 0.020	0.014	< 0.0020	0.33	< 0.0020	610	< 0.0060	0.0064	0.21	360	0.14	< 0.0080	< 0.010	9.5	< 0.0050	1,800	0.022
MW-3	3/22/2022	< 0.10	0.015	< 0.0020	0.32	< 0.0020	640	< 0.0060	0.0075	0.16	400	0.085	< 0.0080	< 0.010	9.6	< 0.0050	1,800	0.014
MW-3	8/3/2022	< 0.020	0.014	< 0.0020	0.29	< 0.0020	650	< 0.0060	< 0.0060	0.086	380	0.065	< 0.0080	< 0.010	8.7	0.013	2,000	0.025



GROUNDWATER DISSOLVED METALS (TABLE 1 OF 2) SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25  All Values Presented in Parts Per Million (mg/L)																		
SAMPLE ID	DATE	Aluminum	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium	Cobalt	Iron	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Zinc
MW-4	3/17/2012	---	0.035	---		< 0.020	1,700	< 0.060	---	< 1.0	670	0.18	---	---	37	< 0.050	8,600	< 0.10
MW-4	6/18/2012	---	0.028	---	---	< 0.0020	2,000	< 0.0060	---	0.043	690	0.11	---	---	36	< 0.0050	10,000	0.013
MW-4	9/12/2012	---	0.027	---	---	< 0.020	2,200	< 0.060	---	< 0.20	780	0.085	---	---	31	< 0.050	11,000	< 0.10
MW-4	12/7/2012	---	0.028	---	---	< 0.0020	1,800	< 0.0060	---	0.071	670	0.15	---	---	55	< 0.0050	8,400	< 0.010
MW-4	3/12/2013	---	0.027	---	---	< 0.0020	1,500	< 0.0060	---	0.038	550	0.21	---	---	45	< 0.0050	9,300	< 0.010
MW-4	6/27/2013	---	0.027	---	---	< 0.0020	1,700	< 0.0060	---	0.036	600	0.21	---	---	41	< 0.25	10,000	0.012
MW-4	3/28/2018	< 0.10	0.02	< 0.010	---	< 0.010	1,500	< 0.030	< 0.030	< 0.10	620	1	< 0.040	< 0.050	38	0.056	11,000	< 0.050
MW-4	3/11/2019	< 0.020	0.016	< 0.0020	---	< 0.0020	790	< 0.0060	< 0.0060	0.036	320	0.76	< 0.0080	< 0.010	27	0.014	7,100	0.014
MW-4	10/29/2019	< 0.10	0.018	0.015	---	< 0.010	1,700	< 0.030	< 0.030	< 0.10	610	0.53	< 0.040	< 0.050	29	0.059	8,600	< 0.050
MW-4	9/18/2020	< 0.10	0.038	< 0.010	1.4	< 0.010	2,000	< 0.030	< 0.030	< 0.10	700	0.79	< 0.040	< 0.050	42	< 0.025	10,000	< 0.050
MW-4	8/24/2021	< 0.10	0.028	< 0.010	1.3	< 0.010	2,200	< 0.030	0.031	< 0.020	690	0.43	< 0.040	< 0.050	43	< 0.025	10,000	< 0.050
MW-4	3/22/2022	< 0.10	0.021	< 0.010	1.5	< 0.010	2,100	< 0.030	< 0.030	< 0.10	690	0.66	< 0.040	< 0.050	37	< 0.025	10,000	< 0.050
MW-4	8/3/2022	< 0.20	0.027	< 0.020	1.1	< 0.020	2,500	< 0.060	< 0.060	< 0.20	860	0.16	< 0.080	< 0.10	24	< 0.050	9,600	0.25
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)																		
A. Human Health Standards																		
B. Other Standards for Domestic Water Supply																		
C. Standards for Irrigation Use																		
Notes:																		
1. Exceedances of the listed closure criteria are highlighted in bold, red type.																		



## GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)

SCRIPP PIT  
EDDY COUNTY, NEW MEXICO  
AP-25

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Antimony	Arsenic	Copper	Lead	Mercury	Selenium	Thallium	Uranium
MW-1	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.031	---	0.025
MW-1	6/18/2012	---	< 0.010	< 0.0060	< 0.0050	< 0.00020	0.045	---	0.024
MW-1	9/12/2012	---	0.0071	< 0.0060	< 0.0050	< 0.00020	0.033	---	0.025
MW-1	12/7/2012	---	0.0067	< 0.0060	< 0.010	< 0.00020	0.041	---	0.027
MW-1	3/12/2013	---	< 0.010	< 0.0060	< 0.0050	< 0.00020	0.031	---	0.024
MW-1	6/27/2013	---	0.023	< 0.0060	< 0.0050	< 0.00020	0.11	---	0.027
MW-1	3/28/2018	---	0.033	< 0.010	< 0.0050	< 0.00020	0.11	---	0.032
MW-1	3/11/2019	< 0.020	< 0.010	0.0077	< 0.0050	< 0.00020	0.088	< 0.0050	0.041
MW-1	10/29/2019	< 0.020	< 0.020	< 0.0060	< 0.010	---	0.074	< 0.010	0.06
MW-1	9/18/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.076	< 0.0050	0.029
MW-1	8/24/2021	< 0.010	< 0.010	< 0.060	< 0.0050	---	0.076	< 0.0025	0.055
MW-1	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	0.1	< 0.0050	0.033
MW-1	8/3/2022	< 0.010	< 0.010	< 0.010	< 0.0050	---	0.11	< 0.0025	0.035
MW-2	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.019	---	0.014
MW-2	6/18/2012	---	< 0.0050	< 0.030	< 0.025	< 0.00020	0.024	---	0.016
MW-2	9/12/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.028	---	0.014
MW-2	12/7/2012	---	0.0034	< 0.0060	< 0.010	< 0.00020	0.027	---	0.013
MW-2	3/12/2013	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.017	---	0.012
MW-2	6/27/2013	---	0.012	< 0.0060	< 0.0050	< 0.00020	0.055	---	0.015
MW-2	3/28/2018	---	0.012	< 0.0050	< 0.0050	< 0.00020	0.014	---	0.011
MW-2	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.016	< 0.0025	0.011
MW-2	10/29/2019	---	---	---	---	---	---	---	---
MW-2	9/18/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.013	< 0.0050	0.012
MW-2	8/24/2021	< 0.010	< 0.010	< 0.030	< 0.0050	---	0.017	< 0.0025	0.012
MW-2	3/22/2022	< 0.0050	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	0.011
MW-2	8/3/2022	< 0.010	< 0.010	< 0.010	< 0.0050	---	0.014	< 0.0025	0.013
MW-3	3/17/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.011	---	0.0094
MW-3	6/18/2012	---	< 0.0050	< 0.030	< 0.025	< 0.00020	0.017	---	0.014
MW-3	9/12/2012	---	< 0.0050	< 0.0060	< 0.0050	< 0.00020	0.026	---	0.011
MW-3	12/7/2012	---	---	---	---	---	---	---	---
MW-3	3/12/2013	---	< 0.0050	< 0.0060	0.0073	< 0.00020	0.014	---	0.011
MW-3	6/27/2013	---	0.011	< 0.0060	< 0.0050	< 0.00020	0.047	---	0.014



## GROUNDWATER DISSOLVED METALS (TABLE 2 OF 2)

SCRIPP PIT  
EDDY COUNTY, NEW MEXICO  
AP-25

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Antimony	Arsenic	Copper	Lead	Mercury	Selenium	Thallium	Uranium
MW-3	3/28/2018	---	0.0058	< 0.0050	< 0.0025	< 0.00020	< 0.0050	---	0.0052
MW-3	3/11/2019	< 0.0050	< 0.0050	< 0.0060	< 0.0025	< 0.00020	0.0079	< 0.0025	0.0074
MW-3	10/29/2019	< 0.010	< 0.010	< 0.0060	< 0.0050	---	< 0.010	< 0.0050	0.011
MW-3	9/18/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0050	0.011
MW-3	8/24/2021	< 0.010	< 0.010	< 0.0060	< 0.0050	---	< 0.010	< 0.0025	0.0073
MW-3	3/22/2022	< 0.0050	< 0.0050	< 0.0050	< 0.0025	---	0.013	< 0.0012	0.0069
MW-3	8/3/2022	< 0.0050	< 0.010	< 0.010	< 0.0025	---	0.014	< 0.0012	0.0085
MW-4	3/17/2012	---	< 0.0050	< 0.060	< 0.050	0.0014	0.019	---	0.015
MW-4	6/18/2012	---	< 0.020	< 0.0060	< 0.0050	0.00092	0.032	---	< 0.020
MW-4	9/12/2012	---	<b>0.014</b>	< 0.060	< 0.010	0.0012	0.025	---	0.017
MW-4	12/7/2012	---	0.0066	< 0.0060	< 0.020	<b>0.0028</b>	0.029	---	< 0.020
MW-4	3/12/2013	---	< 0.010	< 0.0060	< 0.0050	0.00097	0.013	---	0.014
MW-4	6/27/2013	---	<b>0.023</b>	< 0.0060	< 0.0050	0.0015	<b>0.094</b>	---	0.018
MW-4	3/28/2018	---	<b>0.019</b>	< 0.010	< 0.0050	0.00042	< 0.010	---	0.017
MW-4	3/11/2019	< 0.020	< 0.010	< 0.0060	< 0.0050	0.00072	< 0.010	< 0.0050	0.014
MW-4	10/29/2019	< 0.020	< 0.020	< 0.030	< 0.010	---	< 0.020	< 0.010	0.014
MW-4	9/18/2020	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0050	0.017
MW-4	8/24/2021	< 0.010	< 0.010	< 0.030	< 0.0050	---	< 0.010	< 0.0025	0.018
MW-4	3/22/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	0.017
MW-4	8/3/2022	< 0.020	< 0.020	< 0.020	< 0.010	---	< 0.020	< 0.0050	0.017

**20.6.2.3103 NMAC GW STANDARDS**  
(<10,000 mg/L)**A. Human Health Standards****0.006****0.01****0.015****0.002****0.05****0.002****0.03****B. Other Standards for Domestic Water Supply****1.0****C. Standards for Irrigation Use**

## Notes:

- Exceedances of the listed closure criteria are highlighted in bold, red type.



GROUNDWATER TPH AND VOC DATA SUMMARY														
SCRIPP PIT														
EDDY COUNTY, NEW MEXICO														
AP-25														
All Values Presented in Parts Per Million (mg/L)														
SAMPLE ID	DATE	TPH TOTAL	TPH GRO	TPH DRO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene
SB-2	10/21/2000	<1.00	<0.50	<0.50	---	0.015	<0.001	0.001	0.003	---	---	---	---	---
MW-1	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.001	---	---	---	---	---
MW-1	11/8/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-1	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-1	6/18/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	9/12/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	12/7/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	3/12/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	6/27/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-1	3/28/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-1	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	10/29/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-1	9/18/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	8/24/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	3/22/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-1	8/3/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.001	---	---	---	---	---
MW-2	11/8/2004	---	---	---	---	<0.002	<0.002	<0.002	<0.006	---	---	---	---	---
MW-2	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-2	6/18/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-2	9/12/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-2	12/7/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-2	3/12/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-2	6/27/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-2	3/28/2018	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-2	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	10/29/2019	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	9/18/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	8/24/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	3/22/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	8/3/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	9/19/2002	---	---	---	---	<0.001	<0.001	<0.001	<0.001	---	---	---	---	---
MW-3	11/8/2004	---	---	---	---	0.004	<0.002	<0.002	<0.006	---	---	---	---	---
MW-3	3/17/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-3	6/18/2012	---	---	---	<0.001	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-3	9/12/2012	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-3	12/7/2012	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/12/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-3	6/27/2013	---	---	---	---	<0.001	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-3	3/28/2018	---	---	---	---	0.0013	<0.001	<0.001	<0.0015	---	---	<0.002	---	---



GROUNDWATER TPH AND VOC DATA SUMMARY														
SCRIPP PIT														
EDDY COUNTY, NEW MEXICO														
AP-25														
All Values Presented in Parts Per Million (mg/L)														
SAMPLE ID	DATE	TPH TOTAL	TPH GRO	TPH DRO	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene
MW-3	3/11/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	10/29/2019	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-3	9/18/2020	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	8/24/2021	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	3/22/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	8/3/2022	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	9/19/2002	---	---	---	---	0.069	0.008	0.01	0.016	---	---	---	---	---
MW-4	11/8/2004	---	---	---	---	0.051	<0.002	0.005	<0.006	---	---	---	---	---
MW-4	3/17/2012	---	---	---	<0.001	0.01	<0.001	<0.001	<0.002	<0.001	<0.001	<0.002	<0.004	<0.004
MW-4	6/18/2012	---	---	---	<0.001	0.0074	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	9/12/2012	---	---	---	---	0.0095	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	12/7/2012	---	---	---	---	0.0097	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	3/12/2013	---	---	---	---	0.01	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	6/27/2013	---	---	---	---	0.0052	<0.001	<0.001	<0.002	---	---	<0.002	---	---
MW-4	3/28/2018	---	---	---	---	0.014	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-4	3/11/2019	---	---	---	---	0.0074	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	10/29/2019	---	---	---	---	0.0021	<0.001	<0.001	<0.0015	---	---	<0.002	---	---
MW-4	9/18/2020	---	---	---	---	0.002	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	8/24/2021	---	---	---	---	0.0017	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	3/22/2022	---	---	---	---	0.019	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	8/3/2022	---	---	---	---	0.0056	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)														
A. Human Health Standards														
B. Other Standards for Domestic Water Supply														
C. Standards for Irrigation Use														
Notes:														
1. The 0.03 mg/L standard is for total naphthalene plus monomethylnaphthalenes														
2. Exceedances of the listed closure criteria are highlighted in bold, red type.														



**GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS**  
**SCRIPP PIT**  
**EDDY COUNTY, NEW MEXICO**  
**AP-25**

All Values Presented in Parts Per Million (mg/L)

SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO <sub>3</sub> )	Carbonate (As CaCO <sub>3</sub> )	Total Alkalinity (as CaCO <sub>3</sub> )	
MW-1	9/19/2002	---	---	---	---	---	18,400
MW-1	11/8/2004	---	---	---	---	---	7,800
MW-1	3/17/2012	28000	6.98	130	< 2.0	130	19,400
MW-1	6/18/2012	47000	6.99	150	< 2.0	150	23,900
MW-1	9/12/2012	31000	6.99	130	< 2.0	130	21,000
MW-1	12/7/2012	36000	6.83	130	< 2.0	130	21,300
MW-1	3/12/2013	49000	7.01	150	< 2.0	150	27,000
MW-1	6/27/2013	32000	7.12	130	< 2.0	130	23,100
MW-1	3/28/2018	64000	---	162.7	< 2.000	162.7	36,900
MW-1	3/11/2019	56,000	7.11	236.4	< 2.000	236.4	32,600
MW-1	10/29/2019	53,000	7.60	353.7	< 2.000	353.7	36,500
MW-1	9/18/2020	57,000	7.10	166.3	< 2.000	166.3	31,400
MW-1	8/24/2021	51,000	---	293.5	< 2.000	293.5	31,900
MW-1	3/22/2022	54,000	7.43	213.7	< 2.000	213.7	31,900
MW-1	8/3/2022	58,000	7.09	186.7	< 2.000	186.7	36,900
MW-2	9/19/2002	---	---	---	---	---	14,800
MW-2	11/8/2004	---	---	---	---	---	9,400
MW-2	3/17/2012	24,000	7.26	190	< 2.0	190	14,100
MW-2	6/18/2012	29,000	7.20	190	< 2.0	190	14,900
MW-2	9/12/2012	24,000	7.29	200	< 2.0	200	14,600
MW-2	12/7/2012	25,000	7.12	200	< 2.0	200	13,400
MW-2	3/12/2013	26,000	7.17	200	< 2.0	200	13,600
MW-2	6/27/2013	26,000	7.42	200	< 2.0	200	14,500
MW-2	3/28/2018	31,000	---	243.3	< 2.000	243.3	19,800
MW-2	3/11/2019	29,000	7.18	223	< 2.000	223	16,900
MW-2	10/29/2019	---	---	---	---	---	---
MW-2	9/18/2020	25,000	7.26	206	< 2.000	206	14,100
MW-2	8/24/2021	37,000	---	214.4	< 2.000	214.4	20,300
MW-2	3/22/2022	37,000	7.5	224.8	< 2.000	224.8	21,300
MW-2	8/3/2022	37,000	7.3	220.2	< 2.000	220.2	18,700
MW-3	9/19/2002	---	---	---	---	---	10,700
MW-3	11/8/2004	---	---	---	---	---	6,800
MW-3	3/17/2012	16,000	7.31	260	< 2.0	260	9,780
MW-3	6/18/2012	21,000	7.36	260	< 2.0	260	10,300
MW-3	9/12/2012	16,000	7.35	250	< 2.0	250	9,100
MW-3	12/7/2012	---	---	---	---	---	---
MW-3	3/12/2013	15,000	7.25	270	< 2.0	270	10,800
MW-3	6/27/2013	16,000	7.54	260	< 2.0	260	9,440
MW-3	3/28/2018	14,000	---	265.9	< 2.000	265.9	8,840
MW-3	3/11/2019	14,000	7.27	243.3	< 2.000	243.3	8,680
MW-3	10/29/2019	18,000	7.54	290.2	< 2.000	290.2	10,600
MW-3	9/18/2020	17,000	7.46	252.6	< 2.000	252.6	9,840
MW-3	8/24/2021	16,000	---	235.3	< 2.000	235.3	8,450
MW-3	3/22/2022	16,000	7.63	220.9	< 2.000	220.9	8,570
MW-3	8/3/2022	18,000	7.45	224.6	< 2.000	224.6	10,600
MW-4	9/19/2002	---	---	---	---	---	57,400
MW-4	11/8/2004	---	---	---	---	---	44,400
MW-4	3/17/2012	63,000	7.15	260	< 2.0	260	33,400
MW-4	6/18/2012	73,000	7.02	240	< 2.0	240	38,400
MW-4	9/12/2012	75,000	7.10	230	< 2.0	230	42,000
MW-4	12/7/2012	62,000	6.95	240	< 2.0	240	31,600



GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25 All Values Presented in Parts Per Million (mg/L)							
SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO <sub>3</sub> )	Carbonate (As CaCO <sub>3</sub> )	Total Alkalinity (as CaCO <sub>3</sub> )	
MW-4	3/12/2013	63,000	7.06	250	< 2.0	250	<b>33,800</b>
MW-4	6/27/2013	60,000	7.30	240	< 2.0	240	<b>35,500</b>
MW-4	3/28/2018	64,000	---	289	< 2.000	289	<b>33,600</b>
MW-4	3/11/2019	38,000	7.20	298.2	< 2.000	298.2	<b>22,900</b>
MW-4	10/29/2019	52,000	7.40	248.7	< 2.000	248.7	<b>33,700</b>
MW-4	9/18/2020	52,000	7.37	327.8	< 2.000	327.8	<b>24,900</b>
MW-4	8/24/2021	76,000	---	254.1	< 2.000	254.1	<b>40,700</b>
MW-4	3/22/2022	61,000	7.24	276.7	< 2.000	276.7	<b>36,300</b>
MW-4	8/3/2022	74,000	7.08	251.5	< 2.000	251.5	<b>38,000</b>
<b>20.6.2.3103 NMAC GW STANDARDS</b> (<10,000 mg/L)							
<b>A. Human Health Standards</b>							
<b>B. Other Standards for Domestic Water Supply</b>							
<b>C. Standards for Irrigation Use</b>							
Notes: 1. Exceedances of the listed closure criteria are highlighted in bold, red type.							



SOIL TPH, BTEX & CHLORIDE DATA SUMMARY SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25  All Values Presented in Parts Per Million (mg/Kg)																		
SAMPLE ID	Map Location Position	DATE	Depth (ft)	Laboratory Chloride	Field Chloride Low Range	Field Chloride High Range	TPH TOTAL	TPH GRO C6-C10	TPH DRO >C10-C28	TPH MRO >C28-C40	TPH GRO C6-C12	TPH DRO >C12-C35	BTEX	Benzene	Toluene	Ethylbenzene	Xylenes	Comments
SB-1 18.5-20.5		10/21/2000	18.5'-20.5'	8,863	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-2 9-10'		10/21/2000	9'-10'	886	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-2 30-33'		10/21/2000	30'-33'	7,550	---	---	<20	<10	<10	---	---	---	<0.125	<0.025	<0.025	<0.025	<0.050	
SB-2 35-37'		10/21/2000	35'-37'	301	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-2 39-41'		10/21/2000	39'-41'	1,560	---	---	---	---	---	---	---	---	---	---	---	---	---	
Background		10/21/2000	0'-2'	35	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-1 10'		9/6/2002	10'	993	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-1 20'		9/6/2002	20'	443	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-1 30'		9/6/2002	30'	106	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-2 10'		8/30/2002	10'	1,220	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-2 25'		8/30/2002	25'	<20.0	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-2 45'		8/30/2002	45'	2,980	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-3 15'		8/30/2002	15'	390	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-3 30'		8/30/2002	30'	2,760	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-3 45'		8/30/2002	45'	319	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
MW-4 10'		8/30/2002	10'	4,430	---	---	3,241	---	---	---	321	2,920	5.008	0.269	0.342	0.957	3.44	
MW-4 20'		8/30/2002	20'	3,510	---	---	2,741	---	---	---	591	2,150	23.363	1.74	0.573	9.26	11.79	
MW-4 42'		8/30/2002	42'	4,080	---	---	<10.0	---	---	---	<10.0	<10.0	<0.125	<0.025	<0.025	<0.025	<0.050	
ET-1, 25 feet west of MW-4																		
ET1 4'	1	5/19/2021	4'	2,900	---	2,824	---	---	---	---	---	---	---	---	---	---	---	
ET-1 ,8'	1	5/19/2021	8'	790	900	---	4,400	< 4.7	1,900	2,500	---	---	<0.213	< 0.024	< 0.047	< 0.047	< 0.095	Staining
ET-1 , N+50,4'	2	5/19/2021	4'	5,300	---	5,992	---	---	---	---	---	---	---	---	---	---	---	
ET-1 , N+50,8'	2	5/19/2021	8'	12,000	---	12,996	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+100', 4'	3	5/19/2021	4'	1,100	1,000	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+100', 8'	3	5/19/2021	8'	---	1,740	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+150', 4'	4	5/19/2021	4'	1,500	1,628	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+150', 8'	4	5/19/2021	8'	---	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+167' 4'	5	5/19/2021	4'	970	1,076	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1, N+167' 8'	5	5/19/2021	8'	---	792	---	---	---	---	---	---	---	---	---	---	---	---	
ET1, S+40', 4'	6	5/20/2021	4'	< 60	<120	---	---	---	---	---	---	---	---	---	---	---	---	
ET-1 , S+40,8'	6	5/20/2021	8'	83	160	---	7,000	< 4.7	3,700	3,300	---	---	<0.211	< 0.023	< 0.047	< 0.047	< 0.094	Gray, strong hydrocarbon odor
ET-2, 50 feet west of MW-4																		
ET-2	7	5/19/2021	4'	---	---	2,580	---	---	---	---	---	---	---	---	---	---	---	Odor
ET-2 ,8'	7	5/19/2021	8'	6,700	2,460	---	16,000	< 4.9	8,900	7,100	---	---	<0.222	< 0.025	< 0.049	< 0.049	< 0.099	Odor
ET-2 , N+50,4'	8	5/19/2021	4'	7,100	---	7,660	---	---	---	---	---	---	---	---	---	---	---	
ET-2 , N+50,8'	8	5/19/2021	8'	18,000	---	17,660	---	---	---	---	---	---	---	---	---	---	---	
ET2, N+100', 4'	9	5/19/2021	4'	---	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
ET2, N+100', 8'	9	5/19/2021	8'	2,100	2,260	---	---	---	---	---	---	---	---	---	---	---	---	
ET-2, N +150'	10	5/19/2021	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Not sampled, too close to buried line flag
ET-2, N+175', 5'E	11	5/19/2021	4'	3,200	---	3,368	---	---	---	---	---	---	---	---	---	---	---	
ET-2, N+175', 5'E	11	5/19/2021	8'	---	2,460	---	---	---	---	---	---	---	---	---	---	---	---	
ET-2, S +25'	12	5/20/2021	4'	---	120	---	---	---	---	---	---	---	---	---	---	---	---	Likely clean backfill from recent spill excavation
ET-2, S +25'	12	5/20/2021	8'	---	<120	---	---	---	---	---	---	---	---	---	---	---	---	Likely clean backfill from recent spill excavation
ET-3, 75 feet east of MW-4																		
ET-3	13	5/19/2021	4'	---	---	3,368	---	---	---	---	---	---	---	---	---	---	---	Oily Sheen
ET-3 ,8'	13	5/19/2021	8'	14,000	---	14,332	16	< 4.7	16	<46	---	---	<0.213	< 0.024	< 0.047	< 0.047	< 0.095	
ET-3, N +50'	14	5/19/2021	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Not sampled, too close to buried line
ET-3, N +100'	15	5/19/2021	4'	---	1,740	1,552	---	---	---	---	---	---	---	---	---	---	---	
ET-3, N +100'	15	5/19/2021	8'	---	1,628	---	---	---	---	---	---	---	---	---	---	---	---	
ET-3, N +150'	16	5/19/2021	4'	---	556	---	---	---	---	---	---	---	---	---	---	---	---	
ET-3, N +150'	16	5/19/2021	8'	---	1,000	---	---	---	---	---	---	---	---	---	---	---	---	
ET-3, S +25'	17	5/20/2021	4'	---	---	2,348	---	---	---	---	---	---	---	---	---	---	---	
ET-3, S +25'	17	5/20/2021	8'	---	---	1,080	---	---	---	---	---	---	---	---	---	---	---	
ET-4, 100 feet east of MW-4																		
ET-4	18	5/19/2021	4'	---	---	2,132	---	---	---	---	---	---	---	---	---	---	---	



SOIL TPH, BTEX & CHLORIDE DATA SUMMARY SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25  All Values Presented in Parts Per Million (mg/Kg)																		
SAMPLE ID	Map Location Position	DATE	Depth (ft)	Laboratory Chloride	Field Chloride Low Range	Field Chloride High Range	TPH TOTAL	TPH GRO C6-C10	TPH DRO >C10-C28	TPH MRO >C28-C40	TPH GRO C6-C12	TPH DRO >C12-C35	BTEX	Benzene	Toluene	Ethylbenzene	Xylenes	Comments
ET-4	18	5/19/2021	8'	---	2,288	---	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N +50'	19	5/20/2021	4'	---	---	3,368	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N +50'	19	5/20/2021	8'	---	---	5,096	---	---	---	---	---	---	---	---	---	---	---	
ET4, N+100', 4'	20	5/20/2021	4'	2,300	---	2,132	---	---	---	---	---	---	---	---	---	---	---	
ET4, N+100', 4'	20	5/20/2021	8'	---	1,740	---	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N +150'	21	5/20/2021	4'	---	---	1,552	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N +150'	21	5/20/2021	8'	---	1,360	---	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N+200', 4'	22	5/20/2021	4'	2,200	---	2,348	---	---	---	---	---	---	---	---	---	---	---	
ET-4, N+200', 4'	22	5/20/2021	8'	---	1,628	---	---	---	---	---	---	---	---	---	---	---	---	
ET-5, 125 feet east of MW-4																		
ET-5 4'	23	5/19/2021	4'	5,700	---	5,992	---	---	---	---	---	---	---	---	---	---	---	Hit, punctured unmarked 4" black poly line, dry
ET5 8'	23	5/19/2021	8'	8,300	---	9,064	---	---	---	---	---	---	---	---	---	---	---	
WT-1, 25' west of MW-4																		
WT-1	24	5/20/2021	4'	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Not Sampled. Hit, punctured unmarked 4" white PVC line, dry
WT-1, S+50'	25	5/20/2021	4'	---	---	1,732	---	---	---	---	---	---	---	---	---	---	---	
WT-1, S+50'	25	5/20/2021	8'	---	---	1,956	---	---	---	---	---	---	---	---	---	---	---	
WT-1, S+100'	26	5/26/2021	4'	---	1,156	---	---	---	---	---	---	---	---	---	---	---	---	
WT-1, S+100'	26	5/26/2021	8'	---	1,080	---	---	---	---	---	---	---	---	---	---	---	---	
WT-1, S+150'	27	5/26/2021	4'	---	328	---	---	---	---	---	---	---	---	---	---	---	---	
WT-1, S+150'	27	5/26/2021	8'	---	228	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, 50' west of MW-4																		
WT-2	28	5/26/2021	4'	---	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2	28	5/26/2021	8'	---	2,260	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, S+50'	29	5/26/2021	4'	---	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, S+50'	29	5/26/2021	8'	---	1,000	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, S+100'	30	5/26/2021	4'	---	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
WT2, S+100'	30	5/26/2021	8'	1,200	1,240	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, S+150'	31	5/26/2021	4'	---	456	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, S+150'	31	5/26/2021	8'	---	956	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+50'	32	5/27/2021	4'	---	1,076	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+50'	32	5/27/2021	8'	---	1,956	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+100'	33	5/27/2021	4'	---	<120	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+100'	33	5/27/2021	8'	---	548	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+150'	34	5/27/2021	4'	550	728	---	---	---	---	---	---	---	---	---	---	---	---	
WT-2, N+150'	34	5/27/2021	8'	---	1,144	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, 75' west of MW-4																		
WT-3	35	5/26/2021	4'	890	1,076	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3	35	5/26/2021	8'	---	860	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+50'	36	5/26/2021	4'	---	504	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+50'	36	5/26/2021	8'	---	504	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+100'	37	5/26/2021	4'	---	792	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+100'	37	5/26/2021	8'	---	1,528	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+150'	38	5/26/2021	4'	---	368	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, S+150'	38	5/26/2021	8'	---	1,144	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+50'	39	5/27/2021	4'	---	1,328	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+50'	39	5/27/2021	8'	---	1,444	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+100'	40	5/27/2021	4'	---	860	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+100'	40	5/27/2021	8'	---	844	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+150'	41	5/27/2021	4'	1,200	1,520	---	---	---	---	---	---	---	---	---	---	---	---	
WT-3, N+150'	41	5/27/2021	8'	---	1,016	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, 100' west of MW-4																		
WT-4	42	5/26/2021	4'	1,600	1,740	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4	42	5/26/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+50'	43	5/26/2021	4'	---	728	---	---	---	---	---	---	---	---	---	---	---	---	
WT4, S+50'	43	5/26/2021	8'	370	456	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+100'	44	5/26/2021	4'	---	1,860	1,732	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+100'	44	5/26/2021	8'	---	956	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+150'	45	5/26/2021	4'	---	860	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+150'	45	5/26/2021	8'	---	1,016	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, S+200'	46	5/26/2021	4'	---	728	---	---	---	---	---	---	---	---	---	---	---	---	



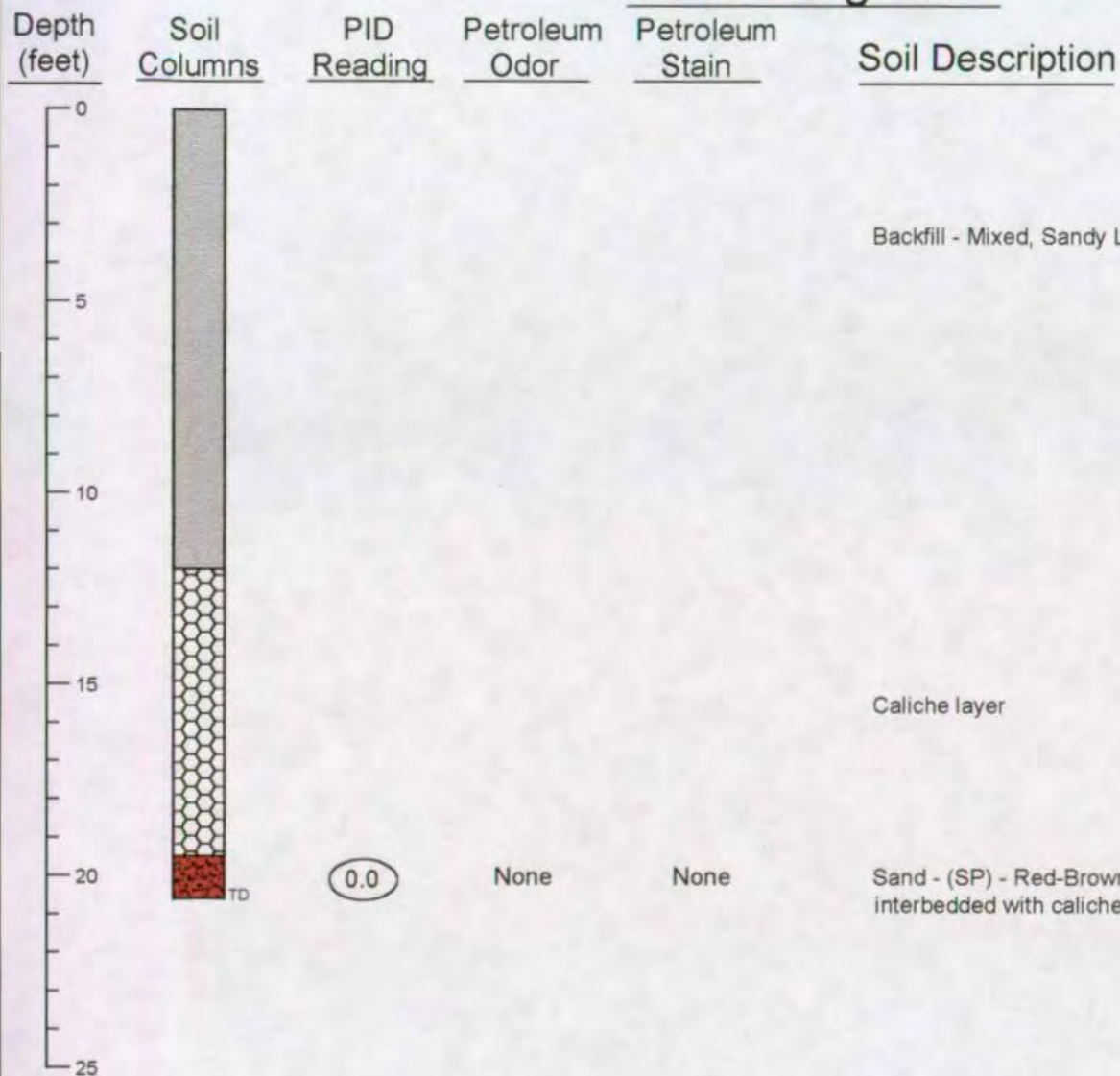
SOIL TPH, BTEX & CHLORIDE DATA SUMMARY SCRIPP PIT EDDY COUNTY, NEW MEXICO AP-25																			
All Values Presented in Parts Per Million (mg/Kg)																			
SAMPLE ID	Map Location Position	DATE	Depth (ft)	Laboratory Chloride	Field Chloride Low Range	Field Chloride High Range	TPH TOTAL	TPH GRO C6-C10	TPH DRO >C10-C28	TPH MRO >C28-C40	TPH GRO C6-C12	TPH DRO >C12-C35	BTEX	Benzene	Toluene	Ethylbenzene	Xylenes	Comments	
WT-4, S+200'	46	5/26/2021	8'	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Not sampled
WT-4, N+50'	47	5/27/2021	4'	1,000	1,156	---	---	---	---	---	---	---	---						
WT-4, N+50'	47	5/27/2021	8'	---	1,284	---	---	---	---	---	---	---	---						
WT-4, N+100'	48	5/27/2021	4'	850	860	---	---	---	---	---	---	---	---						
WT-4, N+100'	48	5/27/2021	8'	---	900	---	---	---	---	---	---	---	---						
WT-4, N+150'	49	5/27/2021	4'	940	1,156	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-4, N+150'	49	5/27/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-5, 125' west of MW-4																			
WT-5	50	5/26/2021	4'	---	1,424	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-5	50	5/26/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, 150' west of MW-4																			
WT-6	51	5/26/2021	4'	---	1,740	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6	51	5/26/2021	8'	---	2,096	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+50'	52	5/27/2021	4'	---	1,520	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+50'	52	5/27/2021	8'	---	1,444	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+100'	53	5/27/2021	4'	---	<120	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+100'	53	5/27/2021	8'	---	1,144	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+150'	54	5/27/2021	4'	---	<120	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-6, N+150'	54	5/27/2021	8'	---	640	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-7, 175' west of MW-4																			
WT-7	55	5/26/2021	4'	600	728	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-7	55	5/26/2021	8'	---	1,836	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-8, 200' west of MW-4																			
WT-8	56	5/26/2021	4'	1,200	1,328	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-8	56	5/26/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-8, N+40'	57	5/27/2021	4'	---	1,740	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-8, N+40'	57	5/27/2021	8'	---	1,080	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-9, 220' west of MW-4																			
WT-9	58	5/26/2021	4'	1,300	1,520	---	---	---	---	---	---	---	---	---	---	---	---	---	
WT-9	58	5/26/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	---	
Background, 200' northwest of MW-3, GPS: 32.714282°N, -104.343324°W																			
BG-4	59	5/27/2021	4'	720	860	---	---	---	---	---	---	---	---	---	---	---	---	---	
BG-4	59	5/27/2021	8'	---	900	---	---	---	---	---	---	---	---	---	---	---	---	---	
19.15.29.12 Table 1 Closure Criteria (GW ≤50')																			
				600	600	600	100							50	10				
Notes:																			
1. Exceedances of the listed closure criteria are highlighted in bold, red type.																			



## ATTACHMENT 1 – SOIL BORING LOGS



# Soil Boring SB-1



## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

## Soil Boring Details

Date Drilled 10/21/00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

Soil Boring SB-1

Yates Pet Corp. Scripp Pit Eddy, NM



Environmental Technology  
Group, Inc.

Scale: NTS	Prep By: RS	Checked By: KD
November 2, 2000		ETGI Project # YPC 2200D



# Soil Boring SB-2

## Legend

PID Head-space reading in ppm obtained with a photo-ionization detector.  
 ○ Indicates samples selected for laboratory analysis.

Depth (feet)	Soil Columns	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
0					Backfill - Mixed, Sandy Loam/Sand.
5					
10		93.1	Heavy	Heavy	Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules and hydrocarbons.
15					Sand - (SP) - Red-Brown, very fine grained, well sorted, interbedded with caliche nodules and hydrocarbons.
20					
25					
30					Gravel rock
35		0.3	None	None	Sand - (SP) - Brown, very fine grained, well sorted interbedded with clay.
40		0.4	None	None	Clay layer with Heavy Plasticity.
45		0.0	None	None	Sand - (SP) - Red-Brown, very fine grained, well sorted interbedded with caliche nodules.
45		0.0	None	None	Clay layer
45		0.0	None	None	Backfill - Mixed, Sandy Loam/Sand.

## Soil Boring Details

Date Drilled 10/21/00

Plugged - Surface to TD with Bentonite and hydrated with deionized water.

## Soil Boring Log Details

Soil Boring SB-2

Yates Pet Corp. Scripp Pit Eddy, NM



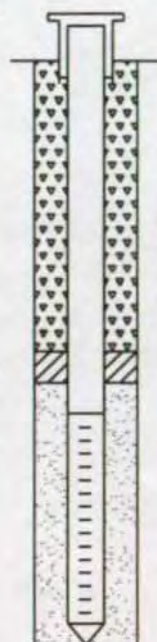
Environmental Technology Group, Inc.

Scale: NTS Prep By: RS Checked By: KD  
 November 2, 2000 ETGI Project # YPC-2200D



## Monitoring Well MW - 1

Depth (feet)	Soil Column	PID Reading	Odor	Stain	Notes
0					
5		3.5	None	None	
10		(2.8)	None	None	
15		3.0	None	None	
20		(3.7)	None	None	Damp
25		2.8	None	None	Damp
30		(2.6)	None	Trace	Wet
35					
40					
45					
50					
55					
60					
65					



## Monitoring Well Details

Date Drilled	8 - 29 - 02
Thickness of Bentonite Seal	3 ft
Length of PVC Well Screen	15 ft
Depth of PVC Well	38 ft
Depth of Exploratory Well	38 ft
Depth to Ground Water	30 ft

	Grout Surface Seal
	Bentonite Pellet Seal
	Sand Pack
	Screen

## Legend

	Sand - (SP) - Moderate Orange-Pink, Very Fine Grained, Well Sorted, Medium Dense to Loose.
	Sand - (SP) - Very Pale Orange, Very Fine Grained, Well Sorted, Loose to Moderate Dense.
	Sandy Clay - (CL) - Dark Yellowish-Orange, Soft.
	Silty Sand - (SM) - Light-Brown to Pink, Yellowish Brown, Very Fine Grained, Moderately Sorted, Loose to Medium Dense, Slightly Damp.
	Sandy Clay - (CL) - Moderate Brown, Slightly Fractured, Damp.
	Clay Sand - (SC) - Light-Brown, Soft to Medium Soft, Wet.
	Indicates samples selected for laboratory analysis.
	Indicates the ground water level measured on date.
PID	Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

1. The monitoring well was installed on date using hollow stem auger drilling techniques.
2. The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
3. The well is protected with a locked stick up steel cover and a compression cap.
4. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
5. The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Detail

## Monitoring Well - 1

Yates Petroleum.

Former Scripps Pit Site

Eddy County, NM

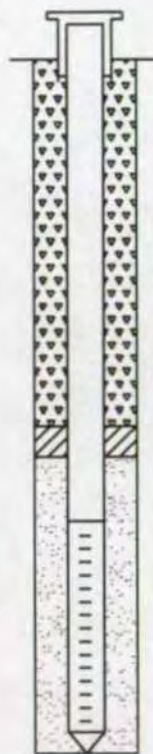
Environmental Technology  
Group, Inc.

Scale: use scale	Prep By: LGM	Checked By: RE
Oct. 8, 2002	ETGI Project # YA2219	



## Monitoring Well MW - 2

Depth (feet)	Soil Column	PID Reading	Odor	Stain	Notes
0					
5		2.4	None	None	
10		(2.6)	None	Brown	
15		1.7	None	None	
20		2.4	None	None	
25		(1.5)	None	Yellowish Orange	
30		1.9	None	Yellowish Orange	
35		2.2	None	None	Damp
40		2.3	None	None	Wet
45		(2.2)	None	None	Wet
50					
55					
60					
65					



## Monitoring Well Details

Date Drilled 8 - 30 - 02  
 Thickness of Bentonite Seal 3 ft  
 Length of PVC Well Screen 15 ft  
 Depth of PVC Well 45 ft  
 Depth of Exploratory Well 45 ft  
 Depth to Ground Water 37 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Legend

- Sand Clay - (SP) - Light-Brown, Very Soft.
- Sand - (SW) - Very Pale Orange, Very Fine to Fine Grained, Loose.
- Silty Sand - (SM) - White to Grayish-Orange, Very Fine Grained, Well Sorted, Dense.
- Sandy Gravel - (GC) - Very Pale Orange, Poorly Sorted, Fine To Course Gravel.
- Sand - (SP) - Very Pale Orange, Very Fine Grained, Well Sorted, Loose.
- Sandy Clay - (ML) - Moderate Reddish-Brown, Firm, Sand.
- Sand - (SP) - Grayish-Orange to Very Pale Orange, Fine to Medium Grained, Well Rounded, Moderately Sorted.
- Clay - (CL) - Light Brown, Medium Stiff.
- Silty Sand - (SM) - Very Pale Orange, Well Sorted, Loose.
- Gravel - (GC) - Very Pale Orange, Poorly Sorted, Fine Gravel.
- Sand - (SW) - Grayish Orange to Dark Yellowish Orange, Fine to Medium Grained, Moderately Sorted, Well Rounded, Wet.
- Indicates samples selected for laboratory analysis.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using hollow stem auger drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Detail

## Monitoring Well - 2

Yates Petroleum.

Former Scripps Pit Site

Eddy County, NM



Environmental Technology  
Group, Inc.

Scale: use scale Prep By: LGM Checked By: RE  
 Oct. 8, 2002 ETGI Project # YA2219



## Monitoring Well MW - 3

Depth (feet)	Soil Column	PID Reading	Odor	Stain	Notes
0					
5		2.2	None	None	
10		1.4	None	Brown	
15		(1.1)	None	None	
20		1.1	None	None	
25		1.1	None	None	
30		(0.9)	None	None	
35		0.6	None	None	Damp
40		0.5	None	None	Damp
45		(0.9)	None	None	Wet
50	TD				
55					
60					
65					



## Monitoring Well Details

Date Drilled: 8 - 30 - 02  
 Thickness of Bentonite Seal: 3 ft  
 Length of PVC Well Screen: 15 ft  
 Depth of PVC Well: 50 ft  
 Depth of Exploratory Well: 50 ft  
 Depth to Ground Water: 42 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Legend

- Sand Clay - (SP) - Light-Brown, Very Soft.
- Sand - (SN) - Very Pale Orange, Moderate Grade, Very Fine to Fine Grained, Moderate Dense.
- Sandy Clay - (CL) - Moderate Orange-Pink to White, Stiff.
- Silty Sand - (SM) - Grayish Orange, Well Sorted, Very Fine Grained, Medium Dense.
- Clay - (CL) - Very Pale Orange, Moderate Stiff.
- Clay - (CL) - Pale Greenish-Yellow, Dense.
- Clay - (CL) - Moderate Brown, and Pale Greenish-Yellow, Dense.
- Clay - (CL) - Moderate Brown, Slightly Sandy, Dense.
- Clay - (CL) - Pale Greenish Yellow, Stiff to Moderate Soft, Damp.
- Clay - (CL) - Very Pale Orange to Greenish Yellow, Soft, Damp.
- Clay - (CL) - Very Pale Orange, Wet.
- Indicates samples selected for laboratory analysis.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using hollow stem auger drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Detail

## Monitoring Well - 3

Yates Petroleum.

Former Scripps Pit Site

Eddy County, NM



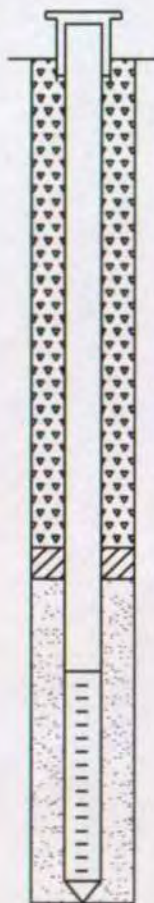
Environmental Technology  
Group, Inc.

Scale: use scale    Prep By: LGM    Checked By: RE  
Oct. 10, 2002    ETGI Project # YA2219



## Monitoring Well MW - 4

Depth (feet)	Soil Column	PID Reading	Odor	Stain	Notes
0					
5		65.8	None	None	
10		(219)	None	Brown	
15		11.1	None	None	
20		(1098)	None	None	
25		313	None	None	
30		9.0	None	None	
35		6.3	None	None	
40		3.4	None	None	Damp
45		(2.8)	None	None	Wet
50					
55					
60					
65					



## Monitoring Well Details

Date Drilled 8 - 30 - 02  
 Thickness of Bentonite Seal 3 ft  
 Length of PVC Well Screen 15 ft  
 Depth of PVC Well 55 ft  
 Depth of Exploratory Well 55 ft  
 Depth to Ground Water 46 ft

- Grout Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

## Legend

- Sand Clay - (CL) - Grayish Orange, Soft.
- Sandy Clay - (CI) - Medium Gray to Black, Soft.
- Sandy Clay - (CL) - Moderate Reddish Brown, Firm, Dry.
- Silty Sand - (SM) - Very Pale Green to Pale Greenish Yellow, Very Fine Grained, Well Sorted, Loose.
- Clay - (CL) - Yellowish Gray, Medium Soft to Stiff.
- Sandy Clay - (CL) - Grayish Orange, Medium Soft.
- Sandy Gravel - (SG) - Very Pale Orange, Poorly Sorted, Fine to Course Gravel.
- Silty Sand - (SM) - Dark Yellowish Orange, Well Sorted, Loose.
- Clay - (CL) - Moderate Yellowish Brown, Soft.
- Sand - (SP) - Grayish Orange, Fine To Course Grained, Well Rounded, Poorly Sorted, Wet.

- Indicates samples selected for laboratory analysis.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.

## Completion Notes

- The monitoring well was installed on date using hollow stem auger drilling techniques.
- The well was constructed with 2" ID, 0.020 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked stick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

## Boring Log And Monitoring Well Detail

## Monitoring Well - 4

Yates Petroleum.

Former Scripps Pit Site

Eddy County, NM

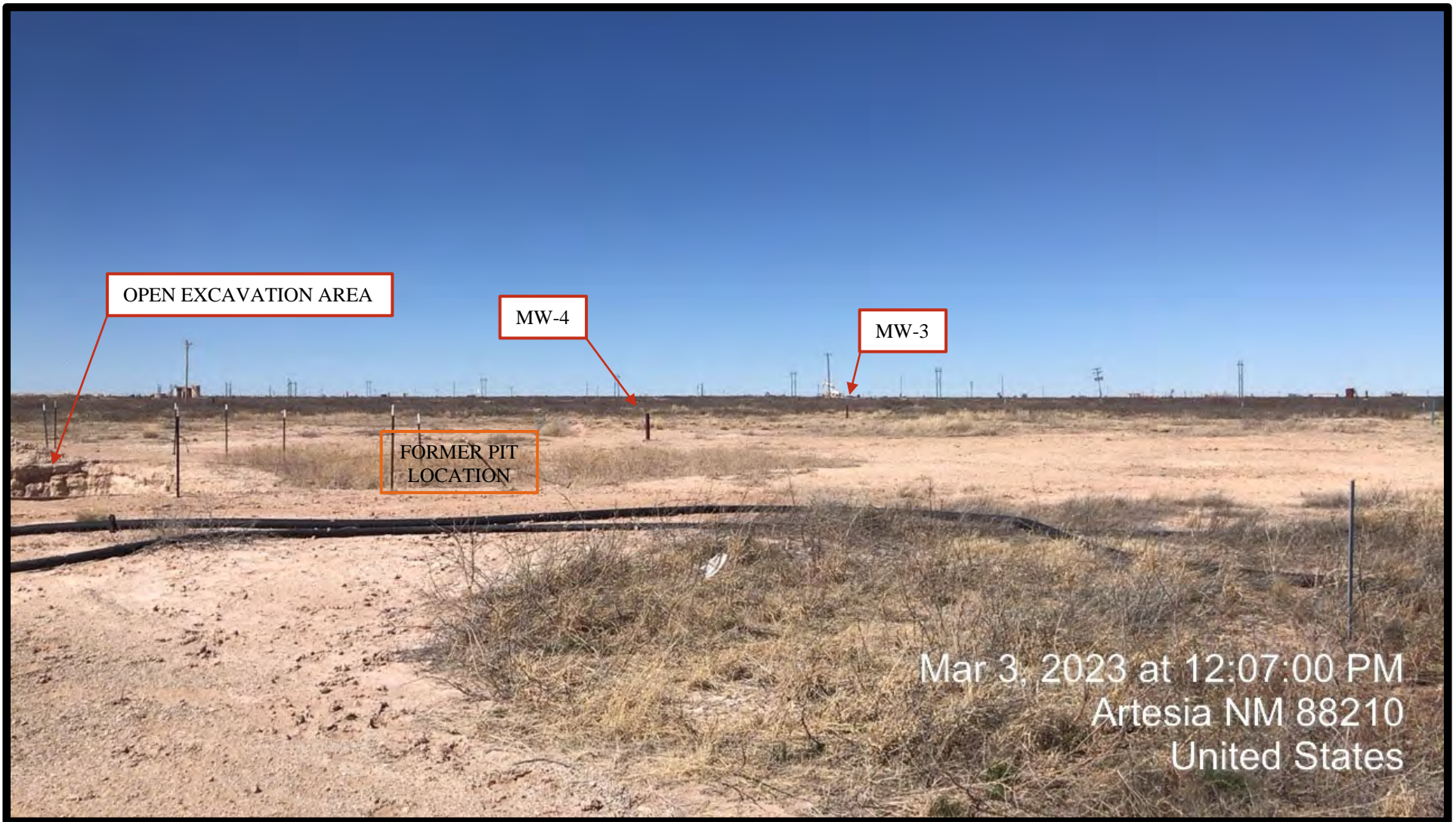
Environmental Technology  
Group, Inc.

Scale: use scale Prep By: LGM Checked By: RE  
 Oct. 10, 2002 ETGI Project # YA2219



## ATTACHMENT 2 – CURRENT SITE PHOTOGRAPHS

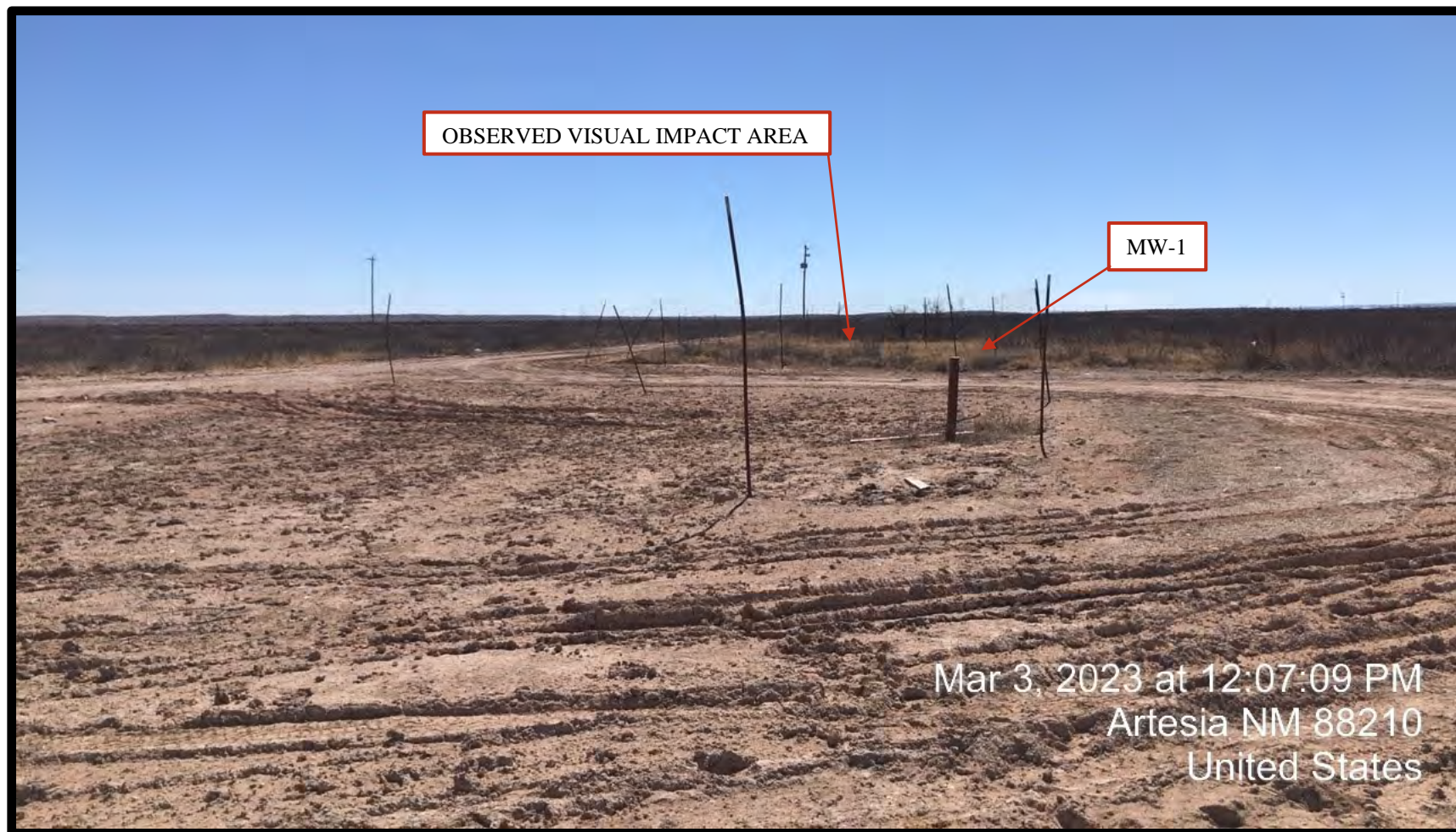




**PHOTOGRAPH NO. 1 – A current view of the Site with the former pit location and two monitor wells visible. The view is towards the northwest.**

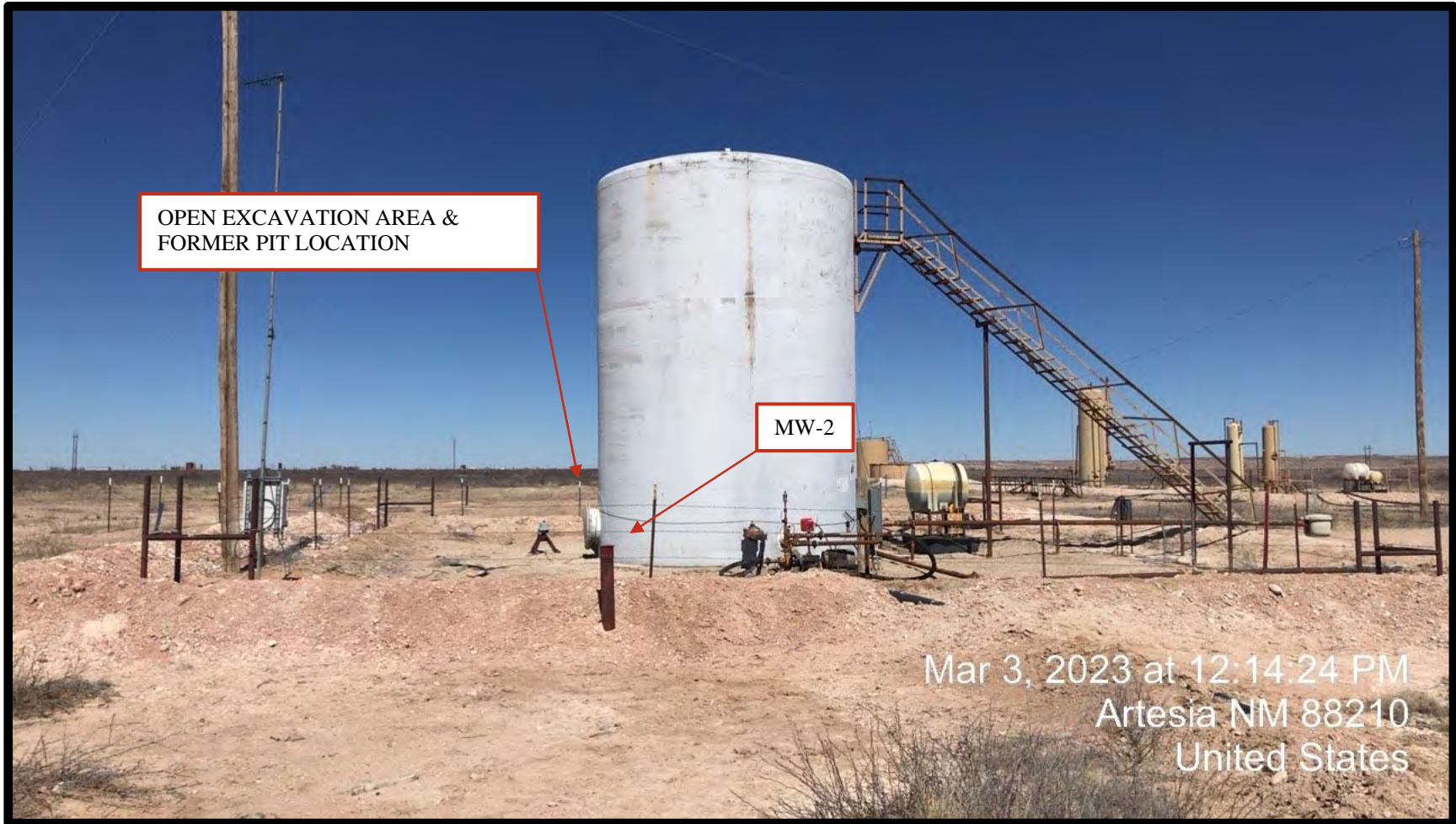
(Approximate GPS: 32.713321, -104.342552)





**PHOTOGRAPH NO. 2 – A view of monitor well MW-1 and the area of observed visual impact. The view is towards the south**  
(Approximate GPS: 32.713235, -104.342473)





**PHOTOGRAPH NO. 3 – A view of monitor well MW-2. The view is towards the north** (Approximate GPS: 32.723580, -104.348184)



## ATTACHMENT 3 – LABORATORY ANALYTICAL REPORTS (2005 - 2022)





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 12, 2012

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX: (575) 393-4388

RE: Yates Scripps Pit

OrderNo.: 1203714

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/20/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 3/17/2012 2:45:00 PM

Lab ID: 1203714-001

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	3/23/2012 12:04:08 AM
Chloride	10,000	500		mg/L	1000	3/23/2012 12:53:46 AM
Bromide	5.6	2.0		mg/L	20	3/21/2012 11:49:12 AM
Nitrate+Nitrite as N	ND	10		mg/L	50	3/27/2012 6:18:09 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/23/2012 12:04:08 AM
Sulfate	1,500	50		mg/L	100	3/23/2012 12:16:33 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.047	0.0020		mg/L	1	3/29/2012 9:46:16 AM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 9:46:16 AM
Calcium	3,300	50		mg/L	50	4/3/2012 6:51:10 AM
Chromium	ND	0.0060		mg/L	1	3/29/2012 9:46:16 AM
Copper	ND	0.0060		mg/L	1	3/29/2012 9:46:16 AM
Iron	0.024	0.020		mg/L	1	4/1/2012 2:07:50 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 9:46:16 AM
Magnesium	1,300	50		mg/L	50	4/3/2012 6:51:10 AM
Manganese	ND	0.0020		mg/L	1	3/29/2012 9:46:16 AM
Potassium	6.7	1.0		mg/L	1	3/29/2012 9:46:16 AM
Silver	ND	0.0050		mg/L	1	3/29/2012 9:46:16 AM
Sodium	930	10		mg/L	10	3/29/2012 9:49:50 AM
Zinc	0.041	0.010		mg/L	1	4/3/2012 6:47:41 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	3/22/2012 8:10:34 PM
Selenium	0.031	0.0050		mg/L	5	3/22/2012 8:10:34 PM
Uranium	0.025	0.0050		mg/L	5	4/10/2012 6:55:36 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>JLF</b>
Mercury	ND	0.00020		mg/L	1	3/22/2012 4:06:24 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
Toluene	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
Ethylbenzene	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 12:13:41 AM
Naphthalene	ND	2.0		µg/L	1	3/23/2012 12:13:41 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 12:13:41 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 12:13:41 AM
Xylenes, Total	ND	2.0		µg/L	1	3/23/2012 12:13:41 AM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	3/23/2012 12:13:41 AM
Surr: 4-Bromofluorobenzene	91.9	70-130		%REC	1	3/23/2012 12:13:41 AM
Surr: Dibromofluoromethane	81.4	69.8-130		%REC	1	3/23/2012 12:13:41 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

Page 1 of 18



## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 3/17/2012 2:45:00 PM

Lab ID: 1203714-001

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Surr: Toluene-d8	92.0	70-130		%REC	1	3/23/2012 12:13:41 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JLF
Conductivity	28,000	0.10		µmhos/cm	10	3/21/2012 5:41:07 PM
<b>SM4500-H+B: PH</b>						Analyst: JLF
pH	6.98	1.68	H	pH units	1	3/21/2012 12:51:27 PM
<b>SM2320B: ALKALINITY</b>						Analyst: JLF
Bicarbonate (As CaCO <sub>3</sub> )	130	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 12:51:27 PM
Carbonate (As CaCO <sub>3</sub> )	ND	2.0		mg/L CaCO <sub>3</sub>	1	3/21/2012 12:51:27 PM
Total Alkalinity (as CaCO <sub>3</sub> )	130	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 12:51:27 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	19,400	200		mg/L	1	3/23/2012 2:44:00 PM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 3/17/2012 3:15:00 PM

Lab ID: 1203714-002

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	3/23/2012 1:06:11 AM
Chloride	7,300	250		mg/L	500	3/23/2012 1:31:00 AM
Bromide	2.5	2.0		mg/L	20	3/21/2012 12:14:01 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	3/27/2012 6:29:24 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/23/2012 1:06:11 AM
Sulfate	2,600	50		mg/L	100	3/23/2012 1:18:36 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.016	0.0020		mg/L	1	3/29/2012 9:55:54 AM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 9:55:54 AM
Calcium	1,000	50		mg/L	50	4/3/2012 7:14:21 AM
Chromium	ND	0.0060		mg/L	1	3/29/2012 9:55:54 AM
Copper	ND	0.0060		mg/L	1	3/29/2012 9:55:54 AM
Iron	0.058	0.020		mg/L	1	4/1/2012 2:19:22 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 9:55:54 AM
Magnesium	540	10		mg/L	10	3/29/2012 9:59:08 AM
Manganese	0.017	0.0020		mg/L	1	3/29/2012 9:55:54 AM
Potassium	12	1.0		mg/L	1	3/29/2012 9:55:54 AM
Silver	ND	0.0050		mg/L	1	3/29/2012 9:55:54 AM
Sodium	3,500	50		mg/L	50	4/3/2012 7:14:21 AM
Zinc	0.019	0.010		mg/L	1	4/3/2012 6:58:00 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	3/22/2012 8:12:26 PM
Selenium	0.019	0.0050		mg/L	5	3/22/2012 8:12:26 PM
Uranium	0.014	0.0050		mg/L	5	4/10/2012 6:59:33 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>JLF</b>
Mercury	ND	0.00020		mg/L	1	3/22/2012 4:11:41 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
Toluene	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
Ethylbenzene	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 1:37:46 AM
Naphthalene	ND	2.0		µg/L	1	3/23/2012 1:37:46 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 1:37:46 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 1:37:46 AM
Xylenes, Total	ND	2.0		µg/L	1	3/23/2012 1:37:46 AM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	3/23/2012 1:37:46 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%REC	1	3/23/2012 1:37:46 AM
Surr: Dibromofluoromethane	81.0	69.8-130		%REC	1	3/23/2012 1:37:46 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

Page 3 of 18



## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 3/17/2012 3:15:00 PM

Lab ID: 1203714-002

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Surr: Toluene-d8	93.4	70-130		%REC	1	3/23/2012 1:37:46 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JLF
Conductivity	24,000	0.10		µmhos/cm	10	3/21/2012 5:45:30 PM
<b>SM4500-H+B: PH</b>						Analyst: JLF
pH	7.26	1.68	H	pH units	1	3/21/2012 1:05:47 PM
<b>SM2320B: ALKALINITY</b>						Analyst: JLF
Bicarbonate (As CaCO <sub>3</sub> )	190	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:05:47 PM
Carbonate (As CaCO <sub>3</sub> )	ND	2.0		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:05:47 PM
Total Alkalinity (as CaCO <sub>3</sub> )	190	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:05:47 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	14,100	200		mg/L	1	3/23/2012 2:44:00 PM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 4 of 18



## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Yates Scripps Pit

Collection Date: 3/17/2012 3:45:00 PM

Lab ID: 1203714-003

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	3/23/2012 1:43:25 AM
Chloride	4,000	250		mg/L	500	3/23/2012 2:08:14 AM
Bromide	2.2	2.0		mg/L	20	3/21/2012 12:38:51 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	3/27/2012 6:40:37 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/23/2012 1:43:25 AM
Sulfate	2,400	50		mg/L	100	3/23/2012 1:55:49 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.016	0.0020		mg/L	1	3/29/2012 10:05:10 AM
Cadmium	ND	0.0020		mg/L	1	3/29/2012 10:05:10 AM
Calcium	610	10		mg/L	10	3/29/2012 10:08:39 AM
Chromium	ND	0.0060		mg/L	1	3/29/2012 10:05:10 AM
Copper	ND	0.0060		mg/L	1	3/29/2012 10:05:10 AM
Iron	0.43	0.020	*	mg/L	1	4/1/2012 2:29:12 PM
Lead	ND	0.0050		mg/L	1	3/29/2012 10:05:10 AM
Magnesium	350	10		mg/L	10	3/29/2012 10:08:39 AM
Manganese	0.12	0.0020	*	mg/L	1	3/29/2012 10:05:10 AM
Potassium	8.6	1.0		mg/L	1	3/29/2012 10:05:10 AM
Silver	ND	0.0050		mg/L	1	3/29/2012 10:05:10 AM
Sodium	2,400	50		mg/L	50	4/3/2012 7:26:32 AM
Zinc	0.013	0.010		mg/L	1	4/3/2012 7:23:21 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	3/22/2012 8:14:18 PM
Selenium	0.011	0.0050		mg/L	5	3/22/2012 8:14:18 PM
Uranium	0.0094	0.0050		mg/L	5	4/10/2012 7:03:29 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>JLF</b>
Mercury	ND	0.00020		mg/L	1	3/22/2012 4:13:26 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
Toluene	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
Ethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:05:32 AM
Naphthalene	ND	2.0		µg/L	1	3/23/2012 2:05:32 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 2:05:32 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 2:05:32 AM
Xylenes, Total	ND	2.0		µg/L	1	3/23/2012 2:05:32 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%REC	1	3/23/2012 2:05:32 AM
Surr: 4-Bromofluorobenzene	90.6	70-130		%REC	1	3/23/2012 2:05:32 AM
Surr: Dibromofluoromethane	83.3	69.8-130		%REC	1	3/23/2012 2:05:32 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

Page 5 of 18



## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Yates Scripps Pit

Collection Date: 3/17/2012 3:45:00 PM

Lab ID: 1203714-003

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Surr: Toluene-d8	94.1	70-130		%REC	1	3/23/2012 2:05:32 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JLF
Conductivity	16,000	0.10		µmhos/cm	10	3/21/2012 5:49:54 PM
<b>SM4500-H+B: PH</b>						Analyst: JLF
pH	7.31	1.68	H	pH units	1	3/21/2012 1:22:04 PM
<b>SM2320B: ALKALINITY</b>						Analyst: JLF
Bicarbonate (As CaCO <sub>3</sub> )	260	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:22:04 PM
Carbonate (As CaCO <sub>3</sub> )	ND	2.0		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:22:04 PM
Total Alkalinity (as CaCO <sub>3</sub> )	260	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:22:04 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	9,780	100		mg/L	1	3/23/2012 2:44:00 PM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level.  
                   E    Value above quantitation range  
                   J    Analyte detected below quantitation limits  
                   R    RPD outside accepted recovery limits  
                   S    Spike Recovery outside accepted recovery limits

B   Analyte detected in the associated Method Blank  
 H   Holding times for preparation or analysis exceeded  
 ND   Not Detected at the Reporting Limit  
 RL   Reporting Detection Limit

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## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 3/17/2012 4:15:00 PM

Lab ID: 1203714-004

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	2.2	2.0		mg/L	20	3/23/2012 2:20:38 AM
Chloride	17,000	2,500		mg/L	5000	4/2/2012 3:52:56 PM
Bromide	6.4	2.0		mg/L	20	3/23/2012 2:20:38 AM
Nitrate+Nitrite as N	ND	20		mg/L	100	3/27/2012 6:51:51 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/23/2012 2:20:38 AM
Sulfate	2,600	50		mg/L	100	3/23/2012 2:33:03 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.035	0.020		mg/L	10	4/3/2012 7:33:43 AM
Cadmium	ND	0.020		mg/L	10	4/3/2012 7:33:43 AM
Calcium	1,700	50		mg/L	50	4/3/2012 7:37:08 AM
Chromium	ND	0.060		mg/L	10	4/3/2012 7:33:43 AM
Copper	ND	0.060		mg/L	10	4/3/2012 7:33:43 AM
Iron	ND	1.0		mg/L	50	4/1/2012 2:56:27 PM
Lead	ND	0.050		mg/L	10	3/29/2012 10:28:46 AM
Magnesium	670	10		mg/L	10	4/3/2012 7:33:43 AM
Manganese	0.18	0.020	*	mg/L	10	4/3/2012 7:33:43 AM
Potassium	37	10		mg/L	10	4/3/2012 7:33:43 AM
Silver	ND	0.050		mg/L	10	4/3/2012 7:33:43 AM
Sodium	8,600	200		mg/L	200	4/3/2012 7:40:29 AM
Zinc	ND	0.10		mg/L	10	4/3/2012 7:33:43 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	3/22/2012 8:16:11 PM
Selenium	0.019	0.0050		mg/L	5	3/22/2012 8:16:11 PM
Uranium	0.015	0.010		mg/L	10	4/10/2012 7:07:26 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>JLF</b>
Mercury	0.0014	0.00040		mg/L	2	3/23/2012 3:00:24 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	10	1.0		µg/L	1	3/23/2012 2:33:21 AM
Toluene	ND	1.0		µg/L	1	3/23/2012 2:33:21 AM
Ethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:33:21 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/23/2012 2:33:21 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:33:21 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 2:33:21 AM
Naphthalene	ND	2.0		µg/L	1	3/23/2012 2:33:21 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 2:33:21 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 2:33:21 AM
Xylenes, Total	ND	2.0		µg/L	1	3/23/2012 2:33:21 AM
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%REC	1	3/23/2012 2:33:21 AM
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	1	3/23/2012 2:33:21 AM
Surr: Dibromofluoromethane	82.5	69.8-130		%REC	1	3/23/2012 2:33:21 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

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## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 3/17/2012 4:15:00 PM

Lab ID: 1203714-004

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Surr: Toluene-d8	94.0	70-130		%REC	1	3/23/2012 2:33:21 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JLF
Conductivity	63,000	0.50		µmhos/cm	50	3/21/2012 5:54:04 PM
<b>SM4500-H+B: PH</b>						Analyst: JLF
pH	7.15	1.68	H	pH units	1	3/21/2012 1:38:48 PM
<b>SM2320B: ALKALINITY</b>						Analyst: JLF
Bicarbonate (As CaCO <sub>3</sub> )	260	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:38:48 PM
Carbonate (As CaCO <sub>3</sub> )	ND	2.0		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:38:48 PM
Total Alkalinity (as CaCO <sub>3</sub> )	260	20		mg/L CaCO <sub>3</sub>	1	3/21/2012 1:38:48 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	33,400	200		mg/L	1	3/23/2012 2:44:00 PM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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## Analytical Report

Lab Order 1203714

Date Reported: 4/12/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: Trip Blank

Project: Yates Scripps Pit

Collection Date:

Lab ID: 1203714-005

Matrix: AQUEOUS

Received Date: 3/20/2012 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
Toluene	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
Ethylbenzene	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/23/2012 3:01:28 AM
Naphthalene	ND	2.0		µg/L	1	3/23/2012 3:01:28 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 3:01:28 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/23/2012 3:01:28 AM
Xylenes, Total	ND	2.0		µg/L	1	3/23/2012 3:01:28 AM
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	3/23/2012 3:01:28 AM
Surr: 4-Bromofluorobenzene	89.8	70-130		%REC	1	3/23/2012 3:01:28 AM
Surr: Dibromofluoromethane	77.1	69.8-130		%REC	1	3/23/2012 3:01:28 AM
Surr: Toluene-d8	92.7	70-130		%REC	1	3/23/2012 3:01:28 AM

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-3		MW-4			
	1203714-001		1203714-002		1203714-003		1203714-004			
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	930	40.45	3500	152.24	2400	104.39	8600	374.08		
Potassium	6.7	0.17	12	0.31	8.6	0.22	37	0.95		
Calcium	3300	164.67	1000	49.90	610	30.44	1700	84.83		
Magnesium	1300	107.00	540	44.44	350	28.81	670	55.14		
<b>Total Cations</b>		312.29		246.89		163.86		515.00		
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	1500	31.23	2600	54.13	2400	49.97	2600	54.13		
Chloride	10000	282.09	7300	205.92	4000	112.83	17000	479.55		
Bicarbonate (CaCO <sub>3</sub> )	130	2.60	190	3.80	260	5.20	260	5.20		
Carbonate (CaCO <sub>3</sub> )	ND	*	ND	*	ND	*	ND	*		
Phosphate (P)	ND	*	ND	*	ND	*	ND	*		
Nitrite (N)	ND	*	ND	*	ND	*	ND	*		
Nitrate (N)	ND	*	ND	*	ND	*	ND	*		
Fluoride	ND	*	ND	*	ND	*	2.2	0.12		
Bromide	5.6	0.07	2.5	0.03	2.2	0.03	6.4	0.08		
<b>Total Anions</b>		315.99		263.88		168.03		539.07		
Elect. Cond. (µMhos/cm)	28000		24000		16000		63000			
<b>CATION/ANION RATIO</b>		0.99		0.94		0.98		0.96		
% Difference		1		3		1		2		
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>										
TDS (measured)	19400		14100		9780		33400			
TDS (calculated)	17120		15069		9927		30772			
Ratio meas TDS:calc TDS		1.1		0.9		1.0		1.1		
Ratio Meas. TDS:EC		0.69		0.59		0.61		0.53		
Ratio Calc. TDS:EC		0.61		0.63		0.62		0.49		
Ratio of anion sum:EC		1.1		1.1		1.1		0.9		
Ratio of cation sum:EC		1.1		1.0		1.0		0.8		

\* Analyte not detected (below method detection limit).

\*\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1203714

12-Apr-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1775</b>	RunNo: <b>1775</b>								
Prep Date:	Analysis Date: <b>3/29/2012</b>	SeqNo: <b>49826</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R1775</b>	RunNo: <b>1775</b>								
Prep Date:	Analysis Date: <b>3/29/2012</b>	SeqNo: <b>49827</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	0.52	0.0020	0.5000	0	103	85	115			
Cadmium	0.52	0.0020	0.5000	0	104	85	115			
Calcium	50	1.0	50.00	0	99.9	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Copper	0.52	0.0060	0.5000	0	104	85	115			
Lead	0.51	0.0050	0.5000	0	102	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Manganese	0.51	0.0020	0.5000	0	101	85	115			
Potassium	51	1.0	50.00	0	101	85	115			
Silver	0.11	0.0050	0.1000	0	106	85	115			
Sodium	50	1.0	50.00	0	99.5	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1831</b>	RunNo: <b>1831</b>								
Prep Date:	Analysis Date: <b>4/1/2012</b>	SeqNo: <b>51185</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Iron	ND	0.020								
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Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R1831</b>	RunNo: <b>1831</b>								
Prep Date:	Analysis Date: <b>4/1/2012</b>	SeqNo: <b>51186</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Iron	0.48	0.020	0.5000	0	96.3	85	115			
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**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203714  
12-Apr-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: R1869	RunNo: 1869								
Prep Date:	Analysis Date: 4/3/2012	SeqNo: 52312	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: R1869	RunNo: 1869								
Prep Date:	Analysis Date: 4/3/2012	SeqNo: 52313	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	101	85	115			
Cadmium	0.51	0.0020	0.5000	0	102	85	115			
Calcium	53	1.0	50.00	0	106	85	115			
Chromium	0.50	0.0060	0.5000	0	99.9	85	115			
Copper	0.51	0.0060	0.5000	0	103	85	115			
Magnesium	54	1.0	50.00	0	107	85	115			
Manganese	0.49	0.0020	0.5000	0	98.3	85	115			
Potassium	51	1.0	50.00	0	103	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	52	1.0	50.00	0	105	85	115			
Zinc	0.50	0.010	0.5000	0	99.0	85	115			

Qualifiers:

\*/X

Value exceeds Maximum Contaminant Level.

E

Value above quantitation range

J

Analyte detected below quantitation limits

R

RPD outside accepted recovery limits

B

Analyte detected in the associated Method Blank

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

RL

Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1203714

12-Apr-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1626</b>	RunNo: <b>1626</b>								
Prep Date:	Analysis Date: <b>3/22/2012</b>	SeqNo: <b>46168</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R1626</b>	RunNo: <b>1626</b>								
Prep Date:	Analysis Date: <b>3/22/2012</b>	SeqNo: <b>46169</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.1	85	115			
Selenium	0.026	0.0010	0.02500	0	102	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R2039</b>	RunNo: <b>2039</b>								
Prep Date:	Analysis Date: <b>4/10/2012</b>	SeqNo: <b>56837</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R2039</b>	RunNo: <b>2039</b>								
Prep Date:	Analysis Date: <b>4/10/2012</b>	SeqNo: <b>56840</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R2039</b>	RunNo: <b>2039</b>								
Prep Date:	Analysis Date: <b>4/10/2012</b>	SeqNo: <b>56842</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.024	0.0010	0.02500	0	97.7	85	115			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R2039</b>	RunNo: <b>2039</b>								
Prep Date:	Analysis Date: <b>4/10/2012</b>	SeqNo: <b>56843</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.024	0.0010	0.02500	0	97.2	85	115			

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203714  
12-Apr-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID: MB-1198	SampType: MBLK	TestCode: EPA Method 245.1: Mercury
Client ID: PBW	Batch ID: 1198	RunNo: 1614
Prep Date: 3/22/2012	Analysis Date: 3/22/2012	SeqNo: 45503 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND 0.00020	

Sample ID: LCS-1198	SampType: LCS	TestCode: EPA Method 245.1: Mercury
Client ID: LCSW	Batch ID: 1198	RunNo: 1614
Prep Date: 3/22/2012	Analysis Date: 3/22/2012	SeqNo: 45504 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	0.0051 0.00020 0.005000 0 103 80 120	

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1203714

12-Apr-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1597</b>	RunNo: <b>1597</b>								
Prep Date:	Analysis Date: <b>3/21/2012</b>	SeqNo: <b>44823</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R1597</b>	RunNo: <b>1597</b>								
Prep Date:	Analysis Date: <b>3/21/2012</b>	SeqNo: <b>44824</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.4	0.10	2.500	0	94.6	90	110			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1625</b>	RunNo: <b>1625</b>								
Prep Date:	Analysis Date: <b>3/22/2012</b>	SeqNo: <b>45944</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R1625</b>	RunNo: <b>1625</b>								
Prep Date:	Analysis Date: <b>3/22/2012</b>	SeqNo: <b>45945</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Chloride	4.8	0.50	5.000	0	95.6	90	110			
Bromide	2.4	0.10	2.500	0	97.4	90	110			
Phosphorus, Orthophosphate (As P)	4.9	0.50	5.000	0	98.4	90	110			
Sulfate	9.9	0.50	10.00	0	99.3	90	110			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R1749</b>	RunNo: <b>1749</b>								
Prep Date:	Analysis Date: <b>3/27/2012</b>	SeqNo: <b>49250</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

**Qualifiers:**

\*X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203714  
12-Apr-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID: LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSW		Batch ID: R1749		RunNo: 1749						
Prep Date:		Analysis Date: 3/27/2012		SeqNo: 49251		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.3	0.20	3.500	0	93.5	90	110			

Sample ID: MB		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBW		Batch ID: R1864		RunNo: 1864						
Prep Date:		Analysis Date: 4/2/2012		SeqNo: 52019		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSW		Batch ID: R1864		RunNo: 1864						
Prep Date:		Analysis Date: 4/2/2012		SeqNo: 52020		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.8	90	110			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1203714

12-Apr-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID: <b>5ml-rb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R1624</b>		RunNo: <b>1624</b>							
Prep Date:	Analysis Date: <b>3/22/2012</b>		SeqNo: <b>46046</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.7	70	130			
Surr: Dibromofluoromethane	8.2		10.00		81.7	69.8	130			
Surr: Toluene-d8	9.2		10.00		92.5	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R1624</b>		RunNo: <b>1624</b>							
Prep Date:	Analysis Date: <b>3/22/2012</b>		SeqNo: <b>46047</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	84.1	126			
Toluene	20	1.0	20.00	0	97.8	80	120			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	5.3		10.00		53.1	69.8	130			S
Surr: Toluene-d8	9.1		10.00		91.2	70	130			

**Qualifiers:**

\*X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203714  
12-Apr-12

Client: Safety & Environmental Solutions

Project: Yates Scripps Pit

Sample ID: mb-1	SampType: MBLK	TestCode: SM2320B: Alkalinity
Client ID: PBW	Batch ID: R1600	RunNo: 1600
Prep Date:	Analysis Date: 3/21/2012	SeqNo: 45065 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	ND	20

Sample ID: lcs-1	SampType: LCS	TestCode: SM2320B: Alkalinity
Client ID: LCSW	Batch ID: R1600	RunNo: 1600
Prep Date:	Analysis Date: 3/21/2012	SeqNo: 45066 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	79	20 80.00 0 98.9 88.1 104

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203714  
12-Apr-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID: MB-1196	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 1196	RunNo: 1641								
Prep Date: 3/22/2012	Analysis Date: 3/23/2012	SeqNo: 46518	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-1196	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 1196	RunNo: 1641								
Prep Date: 3/22/2012	Analysis Date: 3/23/2012	SeqNo: 46519	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,010	20.0	1,000	0	101	80	120			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Number:	1203714
Received by/date:	LIM 03/20/12		
Logged By:	Anne Thorne	3/20/2012 12:45:00 PM	Anne Thorne
Completed By:	Anne Thorne	3/20/2012	Anne Thorne
Reviewed By:	[Signature] 03/20/12		

Chain of Custody

- Were seals intact? Yes ☒ No ☐ Not Present ☐
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? *Greynhand* ☒ ~~UPS~~

*At 03/20/12*

Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	<i>12</i>
Adjusted?	<i>(2) &gt;12 unless noted</i>
Checked by:	<i>NG</i>

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

## 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>Interbay &amp; Environmental Solutions</u>				<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush	
Mailing Address: <u>703 E. Clouston</u>				Project Name: <u>WATER</u>		
Phone #: <u>575-397-0570</u>				Project #: <u>Y117-04-004</u>		
email or Fax#:				Project Manager: <u>Boyer, Dave</u>		
QA/QC Package:				Sampler: <u>Senfury</u>		
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Accreditation				Sample Temperature: <u>12</u>		
<input type="checkbox"/> NELAP <input type="checkbox"/> Other						
<input type="checkbox"/> EDD (Type)						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
03/17/12	1445	1200	MMW-1	7	16% H <sub>2</sub> O <sub>2</sub>	1203714
03/17/12	1515	1200	MMW-2	7		-001
03/17/12	1545	1200	MMW-3	7		-002
03/17/12	1615	1200	MMW-4	7		-003
03/19/12	1600	1200	Tap Blank	2		-004
						-005
Date:	Time:	Relinquished by:	Received by:	Date	Time	
03/19/12	1600	Senfury	Senfury	03/12/12	1245	
Date:	Time:	Relinquished by:	Received by:	Date	Time	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

August 17, 2012

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX: (575) 393-4388

RE: Scripps Pit

OrderNo.: 1206985

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/22/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 6/18/2012 1:50:00 PM

Lab ID: 1206985-001

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	6/23/2012 1:30:18 AM
Chloride	13000	1000		mg/L	2000	6/29/2012 7:55:56 PM
Bromide	4.8	2.0		mg/L	20	6/23/2012 1:30:18 AM
Nitrate+Nitrite as N	ND	10		mg/L	50	6/29/2012 10:24:56 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	6/29/2012 7:31:06 PM
Sulfate	1700	25		mg/L	50	6/29/2012 7:43:31 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.044	0.0020		mg/L	1	7/19/2012 8:28:18 AM
Cadmium	ND	0.0020		mg/L	1	7/19/2012 8:28:18 AM
Calcium	3300	100		mg/L	100	8/15/2012 10:41:41 AM
Chromium	ND	0.0060		mg/L	1	7/19/2012 8:28:18 AM
Copper	ND	0.0060		mg/L	1	7/19/2012 8:28:18 AM
Iron	0.045	0.020		mg/L	1	7/19/2012 8:28:18 AM
Lead	ND	0.0050		mg/L	1	7/19/2012 8:28:18 AM
Magnesium	1200	100		mg/L	100	8/14/2012 2:57:58 PM
Manganese	ND	0.0020		mg/L	1	7/19/2012 8:28:18 AM
Potassium	5.2	5.0		mg/L	5	8/3/2012 12:23:08 PM
Silver	ND	0.0050		mg/L	1	7/19/2012 8:28:18 AM
Sodium	970	10		mg/L	10	8/3/2012 12:27:27 PM
Zinc	0.016	0.010		mg/L	1	7/19/2012 8:28:18 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.010		mg/L	10	7/25/2012 4:27:49 PM
Selenium	0.045	0.010		mg/L	10	7/25/2012 4:27:49 PM
Uranium	0.024	0.010		mg/L	10	7/26/2012 4:45:35 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>RAG</b>
Mercury	ND	0.00020		mg/L	1	6/28/2012 2:21:46 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>JDJ</b>
Benzene	ND	1.0		µg/L	1	6/25/2012 2:11:38 PM
Toluene	ND	1.0		µg/L	1	6/25/2012 2:11:38 PM
Ethylbenzene	ND	1.0		µg/L	1	6/25/2012 2:11:38 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/25/2012 2:11:38 PM
Naphthalene	ND	2.0		µg/L	1	6/25/2012 2:11:38 PM
Xylenes, Total	ND	2.0		µg/L	1	6/25/2012 2:11:38 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	6/25/2012 2:11:38 PM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	6/25/2012 2:11:38 PM
Surr: Dibromofluoromethane	115	69.8-130		%REC	1	6/25/2012 2:11:38 PM
Surr: Toluene-d8	107	70-130		%REC	1	6/25/2012 2:11:38 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: <b>DBD</b>
Conductivity	47000	0.50		µmhos/cm	50	6/25/2012 5:24:16 PM

**Qualifiers:**

- \* / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

CLIENT: Safety & Environmental Solutions Client Sample ID: MW-1  
Project: Scripps Pit Collection Date: 6/18/2012 1:50:00 PM  
Lab ID: 1206985-001 Matrix: AQUEOUS Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: DBD
pH	6.99	1.68	H	pH units	1	6/25/2012 3:08:25 PM
SM2320B: ALKALINITY						
						Analyst: DBD
Bicarbonate (As CaCO3)	150	20		mg/L CaCO3	1	6/25/2012 3:08:25 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/25/2012 3:08:25 PM
Total Alkalinity (as CaCO3)	150	20		mg/L CaCO3	1	6/25/2012 3:08:25 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: SNV
Total Dissolved Solids	23900	20.0		mg/L	1	6/26/2012 3:11:00 PM

Qualifiers:	* / X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 21
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL	

## Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 6/18/2012 2:20:00 PM

Lab ID: 1206985-002

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	6/23/2012 1:55:07 AM
Chloride	6500	500		mg/L	1000	6/29/2012 8:33:10 PM
Bromide	2.2	2.0		mg/L	20	6/23/2012 1:55:07 AM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/29/2012 10:37:21 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	6/29/2012 8:08:20 PM
Sulfate	2600	50		mg/L	100	6/29/2012 8:20:45 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.018	0.010		mg/L	5	7/19/2012 8:35:51 AM
Cadmium	ND	0.010		mg/L	5	7/19/2012 8:35:51 AM
Calcium	1000	50		mg/L	50	7/19/2012 11:27:40 AM
Chromium	ND	0.030		mg/L	5	7/19/2012 8:35:51 AM
Copper	ND	0.030		mg/L	5	7/19/2012 8:35:51 AM
Iron	ND	0.10		mg/L	5	7/12/2012 9:07:49 PM
Lead	ND	0.025	X	mg/L	5	7/19/2012 8:35:51 AM
Magnesium	480	5.0		mg/L	5	7/12/2012 9:07:49 PM
Manganese	0.022	0.010		mg/L	5	7/19/2012 8:35:51 AM
Potassium	10	5.0		mg/L	5	7/19/2012 8:35:51 AM
Silver	ND	0.025		mg/L	5	7/12/2012 9:07:49 PM
Sodium	3400	50		mg/L	50	7/19/2012 11:27:40 AM
Zinc	ND	0.050		mg/L	5	7/19/2012 8:35:51 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	7/24/2012 6:35:47 PM
Selenium	0.024	0.0050		mg/L	5	7/24/2012 6:35:47 PM
Uranium	0.016	0.0050		mg/L	5	7/25/2012 3:55:55 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>RAG</b>
Mercury	ND	0.00020		mg/L	1	6/28/2012 2:23:33 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>JDJ</b>
Benzene	ND	1.0		µg/L	1	6/25/2012 2:41:32 PM
Toluene	ND	1.0		µg/L	1	6/25/2012 2:41:32 PM
Ethylbenzene	ND	1.0		µg/L	1	6/25/2012 2:41:32 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/25/2012 2:41:32 PM
Naphthalene	ND	2.0		µg/L	1	6/25/2012 2:41:32 PM
Xylenes, Total	ND	2.0		µg/L	1	6/25/2012 2:41:32 PM
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%REC	1	6/25/2012 2:41:32 PM
Surr: 4-Bromofluorobenzene	119	70-130		%REC	1	6/25/2012 2:41:32 PM
Surr: Dibromofluoromethane	98.0	69.8-130		%REC	1	6/25/2012 2:41:32 PM
Surr: Toluene-d8	95.1	70-130		%REC	1	6/25/2012 2:41:32 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: <b>DBD</b>
Conductivity	29000	0.50		µmhos/cm	50	6/25/2012 5:28:30 PM

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 U Samples with CalcVal < MDL

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

CLIENT: Safety & Environmental Solutions Client Sample ID: MW-2  
Project: Scripps Pit Collection Date: 6/18/2012 2:20:00 PM  
Lab ID: 1206985-002 Matrix: AQUEOUS Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						Analyst: DBD
pH	7.20	1.68	H	pH units	1	6/25/2012 3:45:52 PM
SM2320B: ALKALINITY						Analyst: DBD
Bicarbonate (As CaCO3)	190	20		mg/L CaCO3	1	6/25/2012 3:45:52 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/25/2012 3:45:52 PM
Total Alkalinity (as CaCO3)	190	20		mg/L CaCO3	1	6/25/2012 3:45:52 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SNV
Total Dissolved Solids	14900	40.0		mg/L	1	6/26/2012 3:11:00 PM

Qualifiers:	* / X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL	Page 4 of 21

## Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 6/18/2012 2:45:00 PM

Lab ID: 1206985-003

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	6/23/2012 2:19:57 AM
Chloride	4000	250		mg/L	500	6/29/2012 9:10:26 PM
Bromide	2.0	2.0		mg/L	20	6/23/2012 2:19:57 AM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/29/2012 10:49:46 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	6/29/2012 8:45:35 PM
Sulfate	2400	50		mg/L	100	6/29/2012 8:58:01 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.014	0.010		mg/L	5	7/19/2012 11:32:06 AM
Cadmium	ND	0.010		mg/L	5	7/19/2012 11:32:06 AM
Calcium	610	50		mg/L	50	7/19/2012 11:35:55 AM
Chromium	ND	0.030		mg/L	5	7/19/2012 11:32:06 AM
Copper	ND	0.030		mg/L	5	7/19/2012 11:32:06 AM
Iron	0.15	0.10		mg/L	5	7/12/2012 9:17:17 PM
Lead	ND	0.025		mg/L	5	7/19/2012 11:32:06 AM
Magnesium	370	5.0		mg/L	5	7/12/2012 9:17:17 PM
Manganese	0.057	0.010	*	mg/L	5	7/19/2012 11:32:06 AM
Potassium	9.0	5.0		mg/L	5	7/19/2012 11:32:06 AM
Silver	ND	0.025		mg/L	5	7/12/2012 9:17:17 PM
Sodium	2200	50		mg/L	50	7/19/2012 11:35:55 AM
Zinc	ND	0.050		mg/L	5	7/19/2012 11:32:06 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.0050		mg/L	5	7/24/2012 6:39:34 PM
Selenium	0.017	0.0050		mg/L	5	7/24/2012 6:39:34 PM
Uranium	0.014	0.0050		mg/L	5	7/25/2012 3:57:47 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>RAG</b>
Mercury	ND	0.00020		mg/L	1	6/28/2012 2:28:50 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>JDJ</b>
Benzene	ND	1.0		µg/L	1	6/25/2012 3:11:29 PM
Toluene	ND	1.0		µg/L	1	6/25/2012 3:11:29 PM
Ethylbenzene	ND	1.0		µg/L	1	6/25/2012 3:11:29 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/25/2012 3:11:29 PM
Naphthalene	ND	2.0		µg/L	1	6/25/2012 3:11:29 PM
Xylenes, Total	ND	2.0		µg/L	1	6/25/2012 3:11:29 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	6/25/2012 3:11:29 PM
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	6/25/2012 3:11:29 PM
Surr: Dibromofluoromethane	104	69.8-130		%REC	1	6/25/2012 3:11:29 PM
Surr: Toluene-d8	96.4	70-130		%REC	1	6/25/2012 3:11:29 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: <b>DBD</b>
Conductivity	21000	0.50		µmhos/cm	50	6/28/2012 6:44:10 PM

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 U Samples with CalcVal < MDL

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-3  
Project: Scripps Pit      Collection Date: 6/18/2012 2:45:00 PM  
Lab ID: 1206985-003      Matrix: AQUEOUS      Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: DBD
pH	7.36	1.68	H	pH units	1	6/25/2012 4:02:20 PM
SM2320B: ALKALINITY						
						Analyst: DBD
Bicarbonate (As CaCO3)	260	20		mg/L CaCO3	1	6/25/2012 4:02:20 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/25/2012 4:02:20 PM
Total Alkalinity (as CaCO3)	260	20		mg/L CaCO3	1	6/25/2012 4:02:20 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: SNV
Total Dissolved Solids	10300	100		mg/L	1	6/26/2012 3:11:00 PM

Qualifiers:	* / X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 21
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL	

## Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 6/18/2012 3:05:00 PM

Lab ID: 1206985-004

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Fluoride	ND	2.0		mg/L	20	6/23/2012 2:44:46 AM
Chloride	21000	1000		mg/L	2000	6/29/2012 9:22:51 PM
Bromide	ND	2.0		mg/L	20	6/23/2012 2:44:46 AM
Nitrate+Nitrite as N	ND	10		mg/L	50	6/29/2012 11:02:10 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	6/29/2012 10:00:06 PM
Sulfate	2600	50		mg/L	100	6/29/2012 10:12:31 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: <b>ELS</b>
Barium	0.028	0.0020		mg/L	1	7/19/2012 11:39:26 AM
Cadmium	ND	0.0020		mg/L	1	7/19/2012 11:39:26 AM
Calcium	2000	100		mg/L	100	7/19/2012 11:43:14 AM
Chromium	ND	0.0060		mg/L	1	7/19/2012 11:39:26 AM
Copper	ND	0.0060		mg/L	1	7/19/2012 11:39:26 AM
Iron	0.043	0.020		mg/L	1	7/12/2012 9:21:09 PM
Lead	ND	0.0050		mg/L	1	7/19/2012 11:39:26 AM
Magnesium	690	100		mg/L	100	7/19/2012 11:43:14 AM
Manganese	0.11	0.0020	*	mg/L	1	7/19/2012 11:39:26 AM
Potassium	36	1.0		mg/L	1	7/19/2012 11:39:26 AM
Silver	ND	0.0050		mg/L	1	7/12/2012 9:21:09 PM
Sodium	10000	200		mg/L	200	7/26/2012 11:45:41 AM
Zinc	0.013	0.010		mg/L	1	7/19/2012 11:39:26 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: <b>SNV</b>
Arsenic	ND	0.020		mg/L	20	7/24/2012 6:41:26 PM
Selenium	0.032	0.020		mg/L	20	7/24/2012 6:41:26 PM
Uranium	ND	0.020		mg/L	20	7/25/2012 3:59:39 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: <b>RAG</b>
Mercury	0.00092	0.00020		mg/L	1	6/28/2012 2:30:39 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>JDJ</b>
Benzene	7.4	1.0		µg/L	1	6/25/2012 3:41:29 PM
Toluene	ND	1.0		µg/L	1	6/25/2012 3:41:29 PM
Ethylbenzene	ND	1.0		µg/L	1	6/25/2012 3:41:29 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/25/2012 3:41:29 PM
Naphthalene	ND	2.0		µg/L	1	6/25/2012 3:41:29 PM
Xylenes, Total	ND	2.0		µg/L	1	6/25/2012 3:41:29 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	6/25/2012 3:41:29 PM
Surr: 4-Bromofluorobenzene	116	70-130		%REC	1	6/25/2012 3:41:29 PM
Surr: Dibromofluoromethane	102	69.8-130		%REC	1	6/25/2012 3:41:29 PM
Surr: Toluene-d8	100	70-130		%REC	1	6/25/2012 3:41:29 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: <b>DBD</b>
Conductivity	73000	0.50		µmhos/cm	50	6/28/2012 6:48:18 PM

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 U Samples with CalcVal < MDL

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 6/18/2012 3:05:00 PM

Lab ID: 1206985-004

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: DBD
pH	7.02	1.68	H	pH units	1	6/25/2012 4:16:34 PM
SM2320B: ALKALINITY						
						Analyst: DBD
Bicarbonate (As CaCO3)	240	20		mg/L CaCO3	1	6/25/2012 4:16:34 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/25/2012 4:16:34 PM
Total Alkalinity (as CaCO3)	240	20		mg/L CaCO3	1	6/25/2012 4:16:34 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: SNV
Total Dissolved Solids	38400	100		mg/L	1	6/26/2012 3:11:00 PM

Qualifiers:   \*/X   Value exceeds Maximum Contaminant Level.  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

                  B    Analyte detected in the associated Method Blank  
                  H    Holding times for preparation or analysis exceeded  
                  ND   Not Detected at the Reporting Limit  
                  RL   Reporting Detection Limit  
                  U    Samples with CalcVal < MDL

## Analytical Report

Lab Order 1206985

Date Reported: 8/17/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: Trip Blank

Project: Scripps Pit

Collection Date:

Lab ID: 1206985-005

Matrix: AQUEOUS

Received Date: 6/22/2012 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JDJ
Benzene	ND	1.0		µg/L	1	6/25/2012 4:11:32 PM
Toluene	ND	1.0		µg/L	1	6/25/2012 4:11:32 PM
Ethylbenzene	ND	1.0		µg/L	1	6/25/2012 4:11:32 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/25/2012 4:11:32 PM
Naphthalene	ND	2.0		µg/L	1	6/25/2012 4:11:32 PM
Xylenes, Total	ND	2.0		µg/L	1	6/25/2012 4:11:32 PM
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%REC	1	6/25/2012 4:11:32 PM
Surr: 4-Bromofluorobenzene	110	70-130		%REC	1	6/25/2012 4:11:32 PM
Surr: Dibromofluoromethane	91.1	69.8-130		%REC	1	6/25/2012 4:11:32 PM
Surr: Toluene-d8	97.3	70-130		%REC	1	6/25/2012 4:11:32 PM

**Qualifiers:**

\* / X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

U Samples with CalcVal < MDL

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## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1	MW-2	MW-3	MW-4	
	1206985-01	1206985-02	1206985-03	1206985-04	
<b>CATIONS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Sodium	970 42.19	3400 147.89	2200 95.69	10000 434.97	
Potassium	5.2 0.13	10 0.26	9.0 0.23	36 0.92	
Calcium	3300 164.67	1000 49.90	610 30.44	2000 99.80	
Magnesium	1200 98.77	480 39.51	370 30.45	690 56.79	
<b>Total Cations</b>	305.76	237.55	156.82	592.48	
<b>ANIONS</b>	mg/L	mg/L	mg/L	mg/L	mg/L
Sulfate	1700 35.39	2600 54.13	2400 49.97	2600 54.13	
Chloride	13000 366.71	6500 183.36	4000 112.83	21000 592.38	
Bicarbonate (CaCO <sub>3</sub> )	150 3.00	190 3.80	260 5.20	240 4.80	
Carbonate (CaCO <sub>3</sub> )	ND *	ND *	ND *	ND *	
Phosphate (P)	ND *	ND *	ND *	ND *	
Nitrite (N)	ND *	ND *	ND *	ND *	
Nitrate (N)	ND *	ND *	ND *	ND *	
Fluoride	ND *	ND *	ND *	ND *	
Bromide	4.8 0.06	2.2 0.03	2.0 0.03	ND *	
<b>Total Anions</b>	405.17	241.31	168.02	651.31	
Elect. Cond. (µMhos/cm)	47000	29000	21000	73000	
<b>CATION/ANION RATIO</b>	0.75	0.98	0.93	0.91	
% Difference	14	1	3	5	
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>					
TDS (measured)	23900	14900	10300	38400	
TDS (calculated)	20270	14106	9747	36470	
Ratio meas TDS:calc TDS	1.2	1.1	1.1	1.1	
Ratio Meas. TDS:EC	0.51	0.51	0.49	0.53	
Ratio Calc. TDS:EC	0.43	0.49	0.46	0.50	
Ratio of anion sum:EC	0.9	0.8	0.8	0.9	
Ratio of cation sum:EC	0.7	0.8	0.7	0.8	

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R4006</b>	RunNo: <b>4006</b>								
Prep Date:	Analysis Date: <b>7/12/2012</b>	SeqNo: <b>114717</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								
Magnesium	ND	1.0								
Silver	ND	0.0050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R4006</b>	RunNo: <b>4006</b>								
Prep Date:	Analysis Date: <b>7/12/2012</b>	SeqNo: <b>114718</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.48	0.020	0.5000	0.002760	95.9	85	115			
Magnesium	51	1.0	50.00	0	101	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R4134</b>	RunNo: <b>4134</b>								
Prep Date:	Analysis Date: <b>7/19/2012</b>	SeqNo: <b>118304</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R4134</b>	RunNo: <b>4134</b>								
Prep Date:	Analysis Date: <b>7/19/2012</b>	SeqNo: <b>118305</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.45	0.0020	0.5000	0	90.6	85	115			
Cadmium	0.45	0.0020	0.5000	0	89.7	85	115			
Calcium	57	1.0	50.00	0	113	85	115			
Chromium	0.45	0.0060	0.5000	0.001200	89.3	85	115			
Copper	0.45	0.0060	0.5000	0	90.3	85	115			

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R4134</b>		RunNo: <b>4134</b>							
Prep Date:	Analysis Date: <b>7/19/2012</b>		SeqNo: <b>118305</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.44	0.020	0.5000	0	88.3	85	115			
Lead	0.46	0.0050	0.5000	0	91.5	85	115			
Magnesium	57	1.0	50.00	0	114	85	115			
Manganese	0.44	0.0020	0.5000	0	87.7	85	115			
Potassium	55	1.0	50.00	0	110	85	115			
Silver	0.091	0.0050	0.1000	0	91.0	85	115			
Sodium	57	1.0	50.00	0	114	85	115			
Zinc	0.45	0.010	0.5000	0	89.5	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R4134</b>		RunNo: <b>4134</b>							
Prep Date:	Analysis Date: <b>7/19/2012</b>		SeqNo: <b>118737</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R4134</b>		RunNo: <b>4134</b>							
Prep Date:	Analysis Date: <b>7/19/2012</b>		SeqNo: <b>118738</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.9	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.8	85	115			
Calcium	43	1.0	50.00	0	85.8	85	115			
Chromium	0.49	0.0060	0.5000	0	98.3	85	115			
Copper	0.48	0.0060	0.5000	0	96.7	85	115			
Iron	0.48	0.020	0.5000	0	96.7	85	115			
Lead	0.50	0.0050	0.5000	0	99.2	85	115			
Magnesium	44	1.0	50.00	0	87.0	85	115			
Manganese	0.48	0.0020	0.5000	0	95.4	85	115			
Silver	0.099	0.0050	0.1000	0	99.2	85	115			

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4134</b>			RunNo: <b>4134</b>						
Prep Date:	Analysis Date: <b>7/19/2012</b>			SeqNo: <b>118738</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	43	1.0	50.00	0	85.7	85	115			
Zinc	0.49	0.010	0.5000	0	97.4	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4442</b>			RunNo: <b>4442</b>						
Prep Date:	Analysis Date: <b>7/26/2012</b>			SeqNo: <b>124089</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4442</b>			RunNo: <b>4442</b>						
Prep Date:	Analysis Date: <b>7/26/2012</b>			SeqNo: <b>124090</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	50	1.0	50.00	0	100	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4647</b>			RunNo: <b>4647</b>						
Prep Date:	Analysis Date: <b>8/3/2012</b>			SeqNo: <b>130536</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4647</b>			RunNo: <b>4647</b>						
Prep Date:	Analysis Date: <b>8/3/2012</b>			SeqNo: <b>130537</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Potassium	56	1.0	50.00	0	111	85	115			
Sodium	57	1.0	50.00	0	114	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4854</b>			RunNo: <b>4854</b>						
Prep Date:	Analysis Date: <b>8/14/2012</b>			SeqNo: <b>137108</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	ND	1.0								

**Qualifiers:**

\*X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985

17-Aug-12

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: LCS		SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID: LCSW		Batch ID: R4854			RunNo: 4854					
Prep Date:		Analysis Date: 8/14/2012			SeqNo: 137109		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	52	1.0	50.00	0	104	85	115			

Sample ID: MB		SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID: PBW		Batch ID: R4878			RunNo: 4878					
Prep Date:		Analysis Date: 8/15/2012			SeqNo: 137837		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								

Sample ID: LCS		SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID: LCSW		Batch ID: R4878			RunNo: 4878					
Prep Date:		Analysis Date: 8/15/2012			SeqNo: 137838		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	53	1.0	50.00	0	105	85	115			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4408</b>			RunNo: <b>4408</b>						
Prep Date:	Analysis Date: <b>7/24/2012</b>			SeqNo: <b>122986</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	102	85	115			
Selenium	0.026	0.0010	0.02500	0	105	85	115			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4408</b>			RunNo: <b>4408</b>						
Prep Date:	Analysis Date: <b>7/24/2012</b>			SeqNo: <b>122987</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	97.2	85	115			
Selenium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4408</b>			RunNo: <b>4408</b>						
Prep Date:	Analysis Date: <b>7/24/2012</b>			SeqNo: <b>122988</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4408</b>			RunNo: <b>4408</b>						
Prep Date:	Analysis Date: <b>7/24/2012</b>			SeqNo: <b>122989</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124069</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.8	85	115			
Selenium	0.026	0.0010	0.02500	0	104	85	115			
Uranium	0.026	0.0010	0.02500	0	102	85	115			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124070</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.3	85	115			

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124070</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0010	0.02500	0	103	85	115			
Uranium	0.024	0.0010	0.02500	0	97.1	85	115			

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124071</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	99.0	85	115			
Selenium	0.026	0.0010	0.02500	0	103	85	115			
Uranium	0.024	0.0010	0.02500	0	97.3	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124072</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124073</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R4441</b>			RunNo: <b>4441</b>						
Prep Date:	Analysis Date: <b>7/25/2012</b>			SeqNo: <b>124074</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985

17-Aug-12

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: LCS	SampType: LCS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: LCSW	Batch ID: R4459	RunNo: 4459								
Prep Date:	Analysis Date: 7/26/2012	SeqNo: 124610 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.025	0.0010	0.02500	0	99.0	85	115			

Sample ID: LCS	SampType: LCS	TestCode: EPA 200.8: Dissolved Metals								
Client ID: LCSW	Batch ID: R4459	RunNo: 4459								
Prep Date:	Analysis Date: 7/26/2012	SeqNo: 124611 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.025	0.0010	0.02500	0	98.1	85	115	0.896	0	

Sample ID: MB	SampType: MBLK	TestCode: EPA 200.8: Dissolved Metals								
Client ID: PBW	Batch ID: R4459	RunNo: 4459								
Prep Date:	Analysis Date: 7/26/2012	SeqNo: 124613 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985

17-Aug-12

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB-2618</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 245.1: Mercury</b>						
Client ID: <b>PBW</b>		Batch ID: <b>2618</b>		RunNo: <b>3748</b>						
Prep Date: <b>6/28/2012</b>		Analysis Date: <b>6/28/2012</b>		SeqNo: <b>106037</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: <b>LCS-2618</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 245.1: Mercury</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>2618</b>		RunNo: <b>3748</b>						
Prep Date: <b>6/28/2012</b>		Analysis Date: <b>6/28/2012</b>		SeqNo: <b>106038</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	102	80	120			

Qualifiers:

\*/X

Value exceeds Maximum Contaminant Level.

E

Value above quantitation range

J

Analyte detected below quantitation limits

R

RPD outside accepted recovery limits

B

Analyte detected in the associated Method Blank

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

RL

Reporting Detection Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1206985

17-Aug-12

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R3643</b>	RunNo: <b>3643</b>								
Prep Date:	Analysis Date: <b>6/22/2012</b>	SeqNo: <b>102533</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R3643</b>	RunNo: <b>3643</b>								
Prep Date:	Analysis Date: <b>6/22/2012</b>	SeqNo: <b>102534</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.6	90	110			
Bromide	2.4	0.10	2.500	0	96.9	90	110			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R3815</b>	RunNo: <b>3815</b>								
Prep Date:	Analysis Date: <b>6/29/2012</b>	SeqNo: <b>107998</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R3815</b>	RunNo: <b>3815</b>								
Prep Date:	Analysis Date: <b>6/29/2012</b>	SeqNo: <b>107999</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.1	90	110			
Phosphorus, Orthophosphate (As P)	4.9	0.50	5.000	0	97.8	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	95.9	90	110			

**Qualifiers:**

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985  
17-Aug-12

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: 5ml rb	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: R3667	RunNo: 3667								
Prep Date:	Analysis Date: 6/25/2012	SeqNo: 103462	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	11		10.00		106	69.8	130			
Surr: Toluene-d8	9.0		10.00		90.0	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: R3667	RunNo: 3667								
Prep Date:	Analysis Date: 6/25/2012	SeqNo: 103463	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	84.1	126			
Toluene	20	1.0	20.00	0	98.7	80	120			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	11		10.00		108	69.8	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985

17-Aug-12

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>mb-1</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R3668</b>	RunNo: <b>3668</b>								
Prep Date:	Analysis Date: <b>6/25/2012</b>	SeqNo: <b>103336</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID: <b>lcs-1</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R3668</b>	RunNo: <b>3668</b>								
Prep Date:	Analysis Date: <b>6/25/2012</b>	SeqNo: <b>103337</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	81	20	80.00	0	101	88.1	104			

Sample ID: <b>mb-2</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R3668</b>	RunNo: <b>3668</b>								
Prep Date:	Analysis Date: <b>6/25/2012</b>	SeqNo: <b>103356</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID: <b>lcs-2</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R3668</b>	RunNo: <b>3668</b>								
Prep Date:	Analysis Date: <b>6/25/2012</b>	SeqNo: <b>103357</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	81	20	80.00	0	101	88.1	104			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 20 of 21



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206985

17-Aug-12

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: MB-2554	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 2554	RunNo: 3689								
Prep Date: 6/25/2012	Analysis Date: 6/26/2012	SeqNo: 104183		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-2554	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 2554	RunNo: 3689								
Prep Date: 6/25/2012	Analysis Date: 6/26/2012	SeqNo: 104184		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	999	20.0	1000	0	99.9	80	120			

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Number:	1206985
Received by/date:	LM 06/22/12 1045		
Logged By:	Anne Thorne	6/22/2012 10:45:00 AM	Anne Thorne
Completed By:	Anne Thorne	6/22/2012	Anne Thorne
Reviewed By:	[Signature] 06/22/12		

Chain of Custody

- Were seals intact? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? greyhound

Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	12
Adjusted?	( <u>&lt;2</u> or >12 unless noted)
Checked by:	J/S

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

October 29, 2012

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX (575) 393-4388

RE: Yates Scripps Pit

OrderNo.: 1209597

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/14/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 9/12/2012 3:15:00 PM

Lab ID: 1209597-001

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	9/15/2012 2:48:45 AM
Chloride	11000	500		mg/L	1000	9/17/2012 8:37:05 PM
Bromide	7.0	2.0		mg/L	20	9/15/2012 2:48:45 AM
Nitrate+Nitrite as N	ND	10		mg/L	50	9/27/2012 1:54:00 AM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	9/17/2012 8:49:29 PM
Sulfate	1500	25		mg/L	50	9/17/2012 8:49:29 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.044	0.0020		mg/L	1	9/17/2012 9:14:43 PM
Cadmium	ND	0.0020		mg/L	1	9/17/2012 9:14:43 PM
Calcium	3100	50		mg/L	50	9/20/2012 11:46:56 AM
Chromium	ND	0.0060		mg/L	1	9/17/2012 9:14:43 PM
Copper	ND	0.0060		mg/L	1	9/20/2012 11:39:13 AM
Iron	0.027	0.020		mg/L	1	9/20/2012 11:39:13 AM
Magnesium	1200	50		mg/L	50	9/20/2012 11:46:56 AM
Manganese	ND	0.0020		mg/L	1	9/17/2012 9:14:43 PM
Potassium	6.2	1.0		mg/L	1	9/20/2012 11:39:13 AM
Silver	ND	0.0050		mg/L	1	9/17/2012 9:14:43 PM
Sodium	970	10		mg/L	10	9/20/2012 11:43:10 AM
Zinc	0.014	0.010		mg/L	1	9/17/2012 9:14:43 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	0.0071	0.0050		mg/L	5	9/27/2012 2:17:26 PM
Lead	ND	0.0050		mg/L	5	9/27/2012 2:17:26 PM
Selenium	0.033	0.020		mg/L	20	10/12/2012 12:37:51 PM
Uranium	0.025	0.020		mg/L	20	10/11/2012 4:44:52 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	9/18/2012 1:47:50 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	9/15/2012 7:53:26 AM
Toluene	ND	1.0		µg/L	1	9/15/2012 7:53:26 AM
Ethylbenzene	ND	1.0		µg/L	1	9/15/2012 7:53:26 AM
Naphthalene	ND	2.0		µg/L	1	9/15/2012 7:53:26 AM
Xylenes, Total	ND	2.0		µg/L	1	9/15/2012 7:53:26 AM
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%REC	1	9/15/2012 7:53:26 AM
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	1	9/15/2012 7:53:26 AM
Surr: Dibromofluoromethane	82.6	70-130		%REC	1	9/15/2012 7:53:26 AM
Surr: Toluene-d8	97.4	70-130		%REC	1	9/15/2012 7:53:26 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	31000	0.10		µmhos/cm	10	9/18/2012 12:19:28 PM
<b>SM4500-H+B: PH</b>						Analyst: IDC

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 9/12/2012 3:15:00 PM

Lab ID: 1209597-001

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: IDC
pH	6.99	1.68	H	pH units	1	9/14/2012 10:09:09 PM
SM2320B: ALKALINITY						
						Analyst: IDC
Bicarbonate (As CaCO3)	130	20		mg/L CaCO3	1	9/14/2012 10:09:09 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	9/14/2012 10:09:09 PM
Total Alkalinity (as CaCO3)	130	20		mg/L CaCO3	1	9/14/2012 10:09:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	21000	200		mg/L	1	9/18/2012 4:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 9/12/2012 3:35:00 PM

Lab ID: 1209597-002

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	9/15/2012 4:03:13 AM
Chloride	6900	250		mg/L	500	9/17/2012 9:01:54 PM
Bromide	2.0	2.0		mg/L	20	9/15/2012 4:03:13 AM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	9/27/2012 2:06:24 AM
Phosphorus, Orthophosphate (As P)	ND	50	H	mg/L	100	9/17/2012 9:14:18 PM
Sulfate	2700	50		mg/L	100	9/17/2012 9:14:18 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.014	0.0020		mg/L	1	9/17/2012 9:26:34 PM
Cadmium	ND	0.0020		mg/L	1	9/17/2012 9:26:34 PM
Calcium	950	10		mg/L	10	9/20/2012 11:54:18 AM
Chromium	ND	0.0060		mg/L	1	9/17/2012 9:26:34 PM
Copper	ND	0.0060		mg/L	1	9/20/2012 11:50:30 AM
Iron	0.054	0.020		mg/L	1	9/20/2012 11:50:30 AM
Magnesium	510	10		mg/L	10	9/20/2012 11:54:18 AM
Manganese	0.0097	0.0020		mg/L	1	9/17/2012 9:26:34 PM
Potassium	8.8	1.0		mg/L	1	9/20/2012 11:50:30 AM
Silver	ND	0.0050		mg/L	1	9/17/2012 9:26:34 PM
Sodium	3100	50		mg/L	50	9/20/2012 11:59:47 AM
Zinc	ND	0.010		mg/L	1	9/17/2012 9:26:34 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	9/27/2012 2:21:22 PM
Lead	ND	0.0050		mg/L	5	9/27/2012 2:21:22 PM
Selenium	0.028	0.020		mg/L	20	10/4/2012 2:56:20 PM
Uranium	0.014	0.010		mg/L	10	10/25/2012 2:18:32 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	9/18/2012 1:49:36 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	9/15/2012 8:21:36 AM
Toluene	ND	1.0		µg/L	1	9/15/2012 8:21:36 AM
Ethylbenzene	ND	1.0		µg/L	1	9/15/2012 8:21:36 AM
Naphthalene	ND	2.0		µg/L	1	9/15/2012 8:21:36 AM
Xylenes, Total	ND	2.0		µg/L	1	9/15/2012 8:21:36 AM
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%REC	1	9/15/2012 8:21:36 AM
Surr: 4-Bromofluorobenzene	92.0	70-130		%REC	1	9/15/2012 8:21:36 AM
Surr: Dibromofluoromethane	83.4	70-130		%REC	1	9/15/2012 8:21:36 AM
Surr: Toluene-d8	99.8	70-130		%REC	1	9/15/2012 8:21:36 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	24000	0.10		µmhos/cm	10	9/18/2012 12:23:35 PM
<b>SM4500-H+B: PH</b>						Analyst: IDC

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 9/12/2012 3:35:00 PM

Lab ID: 1209597-002

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: IDC
pH	7.29	1.68	H	pH units	1	9/14/2012 10:19:49 PM
SM2320B: ALKALINITY						
						Analyst: IDC
Bicarbonate (As CaCO3)	200	20		mg/L CaCO3	1	9/14/2012 10:19:49 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	9/14/2012 10:19:49 PM
Total Alkalinity (as CaCO3)	200	20		mg/L CaCO3	1	9/14/2012 10:19:49 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	14600	200		mg/L	1	9/18/2012 4:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Yates Scripps Pit

Collection Date: 9/12/2012 4:00:00 PM

Lab ID: 1209597-003

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	9/15/2012 4:28:02 AM
Chloride	3900	250		mg/L	500	9/17/2012 9:26:43 PM
Bromide	ND	2.0		mg/L	20	9/15/2012 4:28:02 AM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	9/27/2012 2:18:49 AM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	9/17/2012 9:39:08 PM
Sulfate	2400	25		mg/L	50	9/17/2012 9:39:08 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.015	0.0020		mg/L	1	9/17/2012 9:39:56 PM
Cadmium	ND	0.0020		mg/L	1	9/17/2012 9:39:56 PM
Calcium	550	10		mg/L	10	9/20/2012 12:17:55 PM
Chromium	ND	0.0060		mg/L	1	9/17/2012 9:39:56 PM
Copper	ND	0.0060		mg/L	1	9/20/2012 12:03:24 PM
Iron	0.039	0.020		mg/L	1	9/20/2012 12:03:24 PM
Magnesium	340	10		mg/L	10	9/20/2012 12:17:55 PM
Manganese	0.041	0.0020		mg/L	1	9/17/2012 9:39:56 PM
Potassium	7.5	1.0		mg/L	1	9/20/2012 12:03:24 PM
Silver	ND	0.0050		mg/L	1	9/17/2012 9:39:56 PM
Sodium	2200	50		mg/L	50	9/20/2012 12:21:42 PM
Zinc	ND	0.010		mg/L	1	9/17/2012 9:39:56 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	9/27/2012 2:29:13 PM
Lead	ND	0.0050		mg/L	5	9/27/2012 2:29:13 PM
Selenium	0.026	0.020		mg/L	20	10/12/2012 12:45:43 PM
Uranium	0.011	0.0050		mg/L	5	10/25/2012 2:22:29 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: IDC
Mercury	ND	0.00020		mg/L	1	9/18/2012 1:51:22 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	9/15/2012 8:49:44 AM
Toluene	ND	1.0		µg/L	1	9/15/2012 8:49:44 AM
Ethylbenzene	ND	1.0		µg/L	1	9/15/2012 8:49:44 AM
Naphthalene	ND	2.0		µg/L	1	9/15/2012 8:49:44 AM
Xylenes, Total	ND	2.0		µg/L	1	9/15/2012 8:49:44 AM
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%REC	1	9/15/2012 8:49:44 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%REC	1	9/15/2012 8:49:44 AM
Surr: Dibromofluoromethane	84.2	70-130		%REC	1	9/15/2012 8:49:44 AM
Surr: Toluene-d8	95.3	70-130		%REC	1	9/15/2012 8:49:44 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	16000	0.10		µmhos/cm	10	9/18/2012 12:28:02 PM
<b>SM4500-H+B: PH</b>						Analyst: IDC

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-3

Project: Yates Scripps Pit

Collection Date: 9/12/2012 4:00:00 PM

Lab ID: 1209597-003

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: IDC
pH	7.35	1.68	H	pH units	1	9/14/2012 10:32:10 PM
SM2320B: ALKALINITY						
						Analyst: IDC
Bicarbonate (As CaCO3)	250	20		mg/L CaCO3	1	9/14/2012 10:32:10 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	9/14/2012 10:32:10 PM
Total Alkalinity (as CaCO3)	250	20		mg/L CaCO3	1	9/14/2012 10:32:10 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	9100	200		mg/L	1	9/18/2012 4:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 9/12/2012 4:35:00 PM

Lab ID: 1209597-004

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	9/15/2012 5:17:40 AM
Chloride	23000	1000		mg/L	2000	9/18/2012 11:44:53 PM
Bromide	6.3	2.0		mg/L	20	9/15/2012 5:17:40 AM
Nitrate+Nitrite as N	ND	20		mg/L	100	9/28/2012 2:14:19 AM
Phosphorus, Orthophosphate (As P)	ND	50	H	mg/L	100	9/17/2012 9:51:32 PM
Sulfate	2500	50		mg/L	100	9/17/2012 9:51:32 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.027	0.020		mg/L	10	9/17/2012 10:05:10 PM
Cadmium	ND	0.020		mg/L	10	9/17/2012 10:05:10 PM
Calcium	2200	200		mg/L	200	9/20/2012 12:29:12 PM
Chromium	ND	0.060		mg/L	10	9/17/2012 10:05:10 PM
Copper	ND	0.060		mg/L	10	9/20/2012 12:25:15 PM
Iron	ND	0.20		mg/L	10	9/20/2012 12:25:15 PM
Magnesium	780	10		mg/L	10	9/20/2012 12:25:15 PM
Manganese	0.085	0.020	*	mg/L	10	9/17/2012 10:05:10 PM
Potassium	31	10		mg/L	10	9/20/2012 12:25:15 PM
Silver	ND	0.050		mg/L	10	9/17/2012 10:05:10 PM
Sodium	11000	200		mg/L	200	9/20/2012 12:29:12 PM
Zinc	ND	0.10		mg/L	10	9/17/2012 10:05:10 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	0.014	0.010	*	mg/L	10	10/4/2012 3:08:09 PM
Lead	ND	0.010		mg/L	10	10/4/2012 3:08:09 PM
Selenium	0.025	0.020		mg/L	20	10/12/2012 12:49:39 PM
Uranium	0.017	0.010		mg/L	10	10/25/2012 2:26:25 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: IDC
Mercury	0.0012	0.00020		mg/L	1	9/18/2012 1:53:07 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	9.5	1.0		µg/L	1	9/15/2012 9:17:53 AM
Toluene	ND	1.0		µg/L	1	9/15/2012 9:17:53 AM
Ethylbenzene	ND	1.0		µg/L	1	9/15/2012 9:17:53 AM
Naphthalene	ND	2.0		µg/L	1	9/15/2012 9:17:53 AM
Xylenes, Total	ND	2.0		µg/L	1	9/15/2012 9:17:53 AM
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%REC	1	9/15/2012 9:17:53 AM
Surr: 4-Bromofluorobenzene	88.2	70-130		%REC	1	9/15/2012 9:17:53 AM
Surr: Dibromofluoromethane	82.5	70-130		%REC	1	9/15/2012 9:17:53 AM
Surr: Toluene-d8	98.2	70-130		%REC	1	9/15/2012 9:17:53 AM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	75000	0.50		µmhos/cm	50	9/18/2012 12:31:47 PM
<b>SM4500-H+B: PH</b>						Analyst: IDC

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1209597

Date Reported: 10/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 9/12/2012 4:35:00 PM

Lab ID: 1209597-004

Matrix: AQUEOUS

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: IDC
pH	7.10	1.68	H	pH units	1	9/14/2012 10:45:43 PM
SM2320B: ALKALINITY						
						Analyst: IDC
Bicarbonate (As CaCO3)	230	20		mg/L CaCO3	1	9/14/2012 10:45:43 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	9/14/2012 10:45:43 PM
Total Alkalinity (as CaCO3)	230	20		mg/L CaCO3	1	9/14/2012 10:45:43 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	42000	200		mg/L	1	9/18/2012 4:26:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 1209597  
Date Reported: 10/29/2012

CLIENT: Safety & Environmental Solutions

Client Sample ID: TRIP BLANK

Project: Yates Scripps Pit

Collection Date:

Lab ID: 1209597-005

Matrix: TRIP BLANK

Received Date: 9/14/2012 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	1.0		µg/L	1	9/15/2012 9:46:08 AM
Toluene	ND	1.0		µg/L	1	9/15/2012 9:46:08 AM
Ethylbenzene	ND	1.0		µg/L	1	9/15/2012 9:46:08 AM
Naphthalene	ND	2.0		µg/L	1	9/15/2012 9:46:08 AM
Xylenes, Total	ND	2.0		µg/L	1	9/15/2012 9:46:08 AM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%REC	1	9/15/2012 9:46:08 AM
Surr: 4-Bromofluorobenzene	93.3	70-130		%REC	1	9/15/2012 9:46:08 AM
Surr: Dibromofluoromethane	85.3	70-130		%REC	1	9/15/2012 9:46:08 AM
Surr: Toluene-d8	98.3	70-130		%REC	1	9/15/2012 9:46:08 AM

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1 1210597-01		MW-2 1210597-02		MW-3 1210597-03		MW-4 1210597-04		
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L meq/L
Sodium	970	42.19	3100	134.84	2200	95.69	11000	478.47	
Potassium	6.2	0.16	8.8	0.23	7.5	0.19	31	0.79	
Calcium	3100	154.69	950	47.41	550	27.45	2200	109.78	
Magnesium	1200	98.77	510	41.98	340	27.98	780	64.20	
<b>Total Cations</b>		295.81		224.45		151.31		653.24	
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L meq/L
Sulfate	1500	31.23	2700	56.21	2400	49.97	2500	52.05	
Chloride	11000	310.30	6900	194.64	3900	110.01	23000	648.80	
Bicarbonate (CaCO3)	130	2.60	200	4.00	250	5.00	230	4.60	
Carbonate (CaCO3)									
Phosphate (P)									
Nitrite (N)									
Nitrate (N)									
Fluoride									
Bromide	7.0	0.09	2.0	0.03			6.3	0.08	
<b>Total Anions</b>		344.21		254.88		164.98		705.53	
Elect. Cond. (µMhos/cm)	31000		24000		16000		75000		
<b>CATION/ANION RATIO</b>		0.86		0.88		0.92		0.93	
% Difference		8		6		4		4	
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>									
TDS (measured)	21000		14600		9100		42000		
TDS (calculated)	17861		14291		9548		39655		
Ratio meas TDS:calc TDS		1.2		1.0		1.0		1.1	
Ratio Meas. TDS:EC		0.68		0.61		0.57		0.56	
Ratio Calc. TDS:EC		0.58		0.60		0.60		0.53	
Ratio of anion sum:EC		1.1		1.1		1.0		0.9	
Ratio of cation sum:EC		1.0		0.9		0.9		0.9	

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5587</b>		RunNo: <b>5587</b>							
Prep Date:	Analysis Date: <b>9/17/2012</b>		SeqNo: <b>160071</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R5587</b>		RunNo: <b>5587</b>							
Prep Date:	Analysis Date: <b>9/17/2012</b>		SeqNo: <b>160072</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	97.8	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.3	85	115			
Chromium	0.48	0.0060	0.5000	0	96.6	85	115			
Manganese	0.48	0.0020	0.5000	0	96.0	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			
Zinc	0.47	0.010	0.5000	0	95.0	85	115			

Sample ID <b>1209592-001CMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R5587</b>		RunNo: <b>5587</b>							
Prep Date:	Analysis Date: <b>9/17/2012</b>		SeqNo: <b>160077</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.03755	93.5	70	130			
Cadmium	0.50	0.0020	0.5000	0	101	70	130			
Chromium	0.57	0.0060	0.5000	0.1003	93.8	70	130			
Silver	0.10	0.0050	0.1000	0	105	70	130			
Zinc	0.47	0.010	0.5000	0.05281	82.7	70	130			

Sample ID <b>1209592-001CMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R5587</b>		RunNo: <b>5587</b>							
Prep Date:	Analysis Date: <b>9/17/2012</b>		SeqNo: <b>160078</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0.03755	94.2	70	130	0.720	20	
Cadmium	0.51	0.0020	0.5000	0	101	70	130	0.433	20	
Chromium	0.57	0.0060	0.5000	0.1003	93.3	70	130	0.387	20	
Silver	0.11	0.0050	0.1000	0	106	70	130	1.19	20	
Zinc	0.47	0.010	0.5000	0.05281	83.0	70	130	0.370	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID	1209592-001CMS		SampType: MS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC		Batch ID: R5587		RunNo: 5587					
Prep Date:			Analysis Date: 9/17/2012		SeqNo: 160083		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	3.8	0.010	2.500	1.409	95.7	70	130			

Sample ID	1209592-001CMSD		SampType: MSD		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC		Batch ID: R5587		RunNo: 5587					
Prep Date:			Analysis Date: 9/17/2012		SeqNo: 160084		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	3.9	0.010	2.500	1.409	99.1	70	130	2.22	20	

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R5654			RunNo: 5654					
Prep Date:		Analysis Date: 9/20/2012			SeqNo: 161891		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R5654		RunNo: 5654					
Prep Date:			Analysis Date: 9/20/2012		SeqNo: 161892		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	103	85	115			
Copper	0.50	0.0060	0.5000	0	99.4	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	49	1.0	50.00	0	97.9	85	115			
Sodium	50	1.0	50.00	0	100	85	115			

Sample ID	1209632-001CMS		SampType: MS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	BatchQC		Batch ID: R5654		RunNo: 5654					
Prep Date:			Analysis Date: 9/20/2012		SeqNo: 161948		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	78	1.0	50.00	27.57	101	70	130			
Magnesium	58	1.0	50.00	6.323	104	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID 1209632-001CMSD		SampType: MSD		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: BatchQC		Batch ID: R5654		RunNo: 5654						
Prep Date:		Analysis Date: 9/20/2012		SeqNo: 161949		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	78	1.0	50.00	27.57	102	70	130	0.345	20	
Magnesium	59	1.0	50.00	6.323	105	70	130	0.680	20	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety &amp; Environmental Solutions

Project: Yates Scripps Pit

Sample ID	1209596-001BMS		SampType: MS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	BatchQC		Batch ID: R5818		RunNo: 5818					
Prep Date:			Analysis Date: 9/27/2012		SeqNo: 167338		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0.0003032	102	70	130			
Lead	0.026	0.0010	0.02500	.00005721	103	70	130			

Sample ID	1209597-002CMS		SampType: MS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	MW-2		Batch ID: R5818		RunNo: 5818					
Prep Date:			Analysis Date: 9/27/2012		SeqNo: 167344		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.11	0.0050	0.1250	0.004703	88.0	70	130			
Lead	0.13	0.0050	0.1250	0	102	70	130			

Sample ID	1209B02-006AMS		SampType: MS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	BatchQC		Batch ID: R5818		RunNo: 5818					
Prep Date:			Analysis Date: 9/27/2012		SeqNo: 167354		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0.0003463	97.4	70	130			
Lead	0.026	0.0010	0.02500	0.0004874	101	70	130			

Sample ID	LCS			SampType:	LCS			TestCode:	EPA 200.8: Dissolved Metals			
Client ID:	LCSW			Batch ID:	R5818			RunNo:	5818			
Prep Date:				Analysis Date:	9/27/2012			SeqNo:	167361		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Arsenic	0.026	0.0010	0.02500	0	104	85	115					
Lead	0.026	0.0010	0.02500	0	102	85	115					

Sample ID	LCS			SampType:	LCS			TestCode:	EPA 200.8: Dissolved Metals			
Client ID:	LCSW			Batch ID:	R5818			RunNo:	5818			
Prep Date:				Analysis Date:	9/27/2012			SeqNo:	167362		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Arsenic	0.025	0.0010	0.02500	0	98.2	85	115					
Lead	0.025	0.0010	0.02500	0	102	85	115					

Sample ID	MB	SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	PBW	Batch ID:	R5818		RunNo:	5818				
Prep Date:		Analysis Date:	9/27/2012		SeqNo:	167365		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5818</b>		RunNo: <b>5818</b>							
Prep Date:	Analysis Date: <b>9/27/2012</b>		SeqNo: <b>167367</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								

Sample ID <b>1210072-001BMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172585</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.028	0.0010	0.02500	0.002542	103	70	130			

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172606</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.027	0.0010	0.02500	0	108	85	115			
Lead	0.027	0.0010	0.02500	0	106	85	115			
Selenium	0.028	0.0010	0.02500	0	111	85	115			

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172607</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	103	85	115			
Lead	0.026	0.0010	0.02500	0	105	85	115			
Selenium	0.028	0.0010	0.02500	0	112	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172608</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172610</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5990</b>		RunNo: <b>5990</b>							
Prep Date:	Analysis Date: <b>10/4/2012</b>		SeqNo: <b>172610</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R6175</b>		RunNo: <b>6175</b>							
Prep Date:	Analysis Date: <b>10/11/2012</b>		SeqNo: <b>178034</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.026	0.0010	0.02500	0	106	85	115			

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R6175</b>		RunNo: <b>6175</b>							
Prep Date:	Analysis Date: <b>10/11/2012</b>		SeqNo: <b>178035</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.027	0.0010	0.02500	0	110	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R6175</b>		RunNo: <b>6175</b>							
Prep Date:	Analysis Date: <b>10/11/2012</b>		SeqNo: <b>178036</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R6175</b>		RunNo: <b>6175</b>							
Prep Date:	Analysis Date: <b>10/11/2012</b>		SeqNo: <b>178037</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID <b>1210303-002FMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R6197</b>		RunNo: <b>6197</b>							
Prep Date:	Analysis Date: <b>10/12/2012</b>		SeqNo: <b>178560</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.026	0.0010	0.02500	0.0003612	104	70	130			

**Qualifiers:**

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- E Value above quantitation range
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- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety &amp; Environmental Solutions

Project: Yates Scripps Pit

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	LCSW		Batch ID: R6197		RunNo: 6197					
Prep Date:			Analysis Date: 10/12/2012		SeqNo: 178564		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.028	0.0010	0.02500	0	110	85	115			

Sample ID	MB	SampType:	MBLK		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	PBW	Batch ID:	R6197		RunNo:	6197				
Prep Date:		Analysis Date:	10/12/2012		SeqNo:	178565	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0010								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA 200.8: Dissolved Metals				
Client ID:	LCSW		Batch ID:	R6483		RunNo:	6483				
Prep Date:			Analysis Date:	10/25/2012		SeqNo:	187129	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Uranium	0.027	0.0010	0.02500	.00002754	109	85	115				

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	LCSW		Batch ID: R6483		RunNo: 6483					
Prep Date:			Analysis Date: 10/25/2012		SeqNo: 187130		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.028	0.0010	0.02500	.00001670	113	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID: R6483			RunNo: 6483					
Prep Date:		Analysis Date: 10/25/2012			SeqNo: 187131		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID: R6483			RunNo: 6483					
Prep Date:		Analysis Date: 10/25/2012			SeqNo: 187132		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	LCS		SampType: LCS		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	LCSW		Batch ID: R6483		RunNo: 6483					
Prep Date:			Analysis Date: 10/25/2012		SeqNo: 187168		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	0.027	0.0010	0.02500	0	109	85	115			

### Qualifiers:

- |  |  |
|--|--|
| * Value exceeds Maximum Contaminant Level.   | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range             | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2                   | R RPD outside accepted recovery limits               |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R6483	RunNo:	6483					
Prep Date:		Analysis Date:	10/25/2012	SeqNo:	187169	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety &amp; Environmental Solutions

Project: Yates Scripps Pit

Sample ID	MB-3781		SampType:	MBLK		TestCode:	EPA Method 245.1: Mercury				
Client ID:	PBW		Batch ID:	3781		RunNo:	5593				
Prep Date:	9/17/2012		Analysis Date:	9/18/2012		SeqNo:	161626		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Mercury	ND	0.00020									

Sample ID	LCS-3781		SampType: LCS		TestCode: EPA Method 245.1: Mercury					
Client ID:	LCSW		Batch ID: 3781		RunNo: 5593					
Prep Date:	9/17/2012		Analysis Date: 9/18/2012		SeqNo: 161627		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.3	80	120			

Sample ID	1209231-001BMS		SampType: MS		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 3781		RunNo: 5593					
Prep Date:	9/17/2012		Analysis Date: 9/18/2012		SeqNo: 161630		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.0	75	125			

Sample ID	1209231-001BMSD		SampType: MSD		TestCode: EPA Method 245.1: Mercury					
Client ID:	BatchQC		Batch ID: 3781		RunNo: 5593					
Prep Date:	9/17/2012		Analysis Date: 9/18/2012		SeqNo: 161631		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	97.9	75	125	0.138	20	

### Qualifiers:

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5567</b>		RunNo: <b>5567</b>							
Prep Date:	Analysis Date: <b>9/14/2012</b>		SeqNo: <b>159332</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R5567</b>		RunNo: <b>5567</b>							
Prep Date:	Analysis Date: <b>9/14/2012</b>		SeqNo: <b>159333</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Bromide	2.5	0.10	2.500	0	98.1	90	110			

Sample ID <b>1209585-007AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R5567</b>		RunNo: <b>5567</b>							
Prep Date:	Analysis Date: <b>9/14/2012</b>		SeqNo: <b>159363</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	2.3	0.10	2.500	0.1036	88.4	83.3	107			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5567</b>		RunNo: <b>5567</b>							
Prep Date:	Analysis Date: <b>9/15/2012</b>		SeqNo: <b>159386</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R5567</b>		RunNo: <b>5567</b>							
Prep Date:	Analysis Date: <b>9/15/2012</b>		SeqNo: <b>159387</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.47	0.10	0.5000	0	93.1	90	110			
Bromide	2.3	0.10	2.500	0	91.2	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R5586</b>		RunNo: <b>5586</b>							
Prep Date:	Analysis Date: <b>9/17/2012</b>		SeqNo: <b>159954</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5586		RunNo: 5586					
Prep Date:			Analysis Date: 9/17/2012		SeqNo: 159955		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	99.2	90	110			
Phosphorus, Orthophosphate (As P	5.1	0.50	5.000	0	102	90	110			
Sulfate	9.8	0.50	10.00	0	98.2	90	110			

Sample ID	1209630-006BMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5586		RunNo: 5586					
Prep Date:			Analysis Date: 9/17/2012		SeqNo: 160002		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	89.8	74.5	115			

Sample ID	1209630-006BMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC			Batch ID:	R5586		RunNo:	5586			
Prep Date:				Analysis Date:	9/17/2012		SeqNo:	160003		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Phosphorus, Orthophosphate (As P	4.4	0.50	5.000	0	88.2	74.5	115	1.77	20		

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5616			RunNo: 5616					
Prep Date:		Analysis Date: 9/18/2012			SeqNo: 160944		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R5616		RunNo: 5616					
Prep Date:			Analysis Date: 9/18/2012		SeqNo: 160945		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.3	90	110			

Sample ID	1209682-001AMS		SampType: MS		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5616		RunNo: 5616					
Prep Date:			Analysis Date: 9/18/2012		SeqNo: 160973		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10	0.50	5.000	5.374	101	87.8	111			

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID	1209682-001AMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC			Batch ID:	R5616		RunNo:	5616			
Prep Date:				Analysis Date:	9/18/2012		SeqNo:	160974		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	10	0.50	5.000	5.374	101	87.8	111	0.241	20		

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5794			RunNo: 5794					
Prep Date:		Analysis Date: 9/26/2012			SeqNo: 166671		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSW		Batch ID:	R5794		RunNo:	5794				
Prep Date:			Analysis Date:	9/26/2012		SeqNo:	166672		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	3.5	0.20	3.500	0	98.6	90	110				

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R5826			RunNo: 5826					
Prep Date:		Analysis Date: 9/27/2012			SeqNo: 167617		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS-b		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSW		Batch ID:	R5826		RunNo:	5826				
Prep Date:			Analysis Date:	9/27/2012		SeqNo:	167621		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.5	90	110				

Sample ID	1209C22-001AMS		SampType:	MS		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC		Batch ID:	R5826		RunNo:	5826				
Prep Date:			Analysis Date:	9/27/2012		SeqNo:	167625		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	3.6	0.20	3.500	0	103	88.6	110				

Sample ID	1209C22-001AMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	BatchQC		Batch ID: R5826		RunNo: 5826					
Prep Date:			Analysis Date: 9/27/2012		SeqNo: 167626		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.6	0.20	3.500	0	103	88.6	110	0.619	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	1209C21-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R5826	RunNo:	5826					
Prep Date:		Analysis Date:	9/27/2012	SeqNo:	167632	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.6	88.6	110			

Sample ID	1209C21-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R5826	RunNo:	5826					
Prep Date:		Analysis Date:	9/27/2012	SeqNo:	167633	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.0	88.6	110	1.48	20	

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH greater than 2
- B

Analyte detected in the associated Method Blank
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- R

RPD outside accepted recovery limits

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1209597

29-Oct-12

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159037	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.5	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.5	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159040	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	18	1.0	20.00	0	89.4	80	120			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.3	70	130			
Surr: Dibromofluoromethane	9.3		10.00		92.6	70	130			
Surr: Toluene-d8	9.7		10.00		96.5	70	130			

Sample ID	1209569-001ams	SampType:	MS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159041	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	42	2.0	40.00	0	105	66.8	128			
Toluene	38	2.0	40.00	0	95.9	70	130			
Surr: 1,2-Dichloroethane-d4	18		20.00		88.9	70	130			
Surr: 4-Bromofluorobenzene	19		20.00		94.1	70	130			
Surr: Dibromofluoromethane	16		20.00		82.5	70	130			
Surr: Toluene-d8	19		20.00		96.6	70	130			

Sample ID	1209569-001amsd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159042	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	38	2.0	40.00	0	95.6	66.8	128	9.16	16.7	
Toluene	35	2.0	40.00	0	88.5	70	130	8.02	18.7	
Surr: 1,2-Dichloroethane-d4	17		20.00		86.5	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety &amp; Environmental Solutions

Project: Yates Scripps Pit

Sample ID	1209569-001amsd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159042	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	19		20.00		94.3	70	130	0	0	
Surr: Dibromofluoromethane	16		20.00		79.2	70	130	0	0	
Surr: Toluene-d8	20		20.00		97.9	70	130	0	0	

Sample ID	100NG LCS2	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/15/2012	SeqNo:	159068	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	96.9	80	120			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.6	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.1	70	130			
Surr: Dibromofluoromethane	8.8		10.00		87.6	70	130			
Surr: Toluene-d8	9.8		10.00		98.5	70	130			

Sample ID	1209594-001ams	SampType:	MS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/15/2012	SeqNo:	159069	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	42	2.0	40.00	0	106	66.8	128			
Toluene	38	2.0	40.00	0	94.5	70	130			
Surr: 1,2-Dichloroethane-d4	18		20.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	18		20.00		91.1	70	130			
Surr: Dibromofluoromethane	17		20.00		86.2	70	130			
Surr: Toluene-d8	20		20.00		98.9	70	130			

Sample ID	1209594-001amsd	SampType:	MSD	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/15/2012	SeqNo:	159070	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	37	2.0	40.00	0	92.1	66.8	128	14.0	16.7	
Toluene	33	2.0	40.00	0	82.3	70	130	13.8	18.7	
Surr: 1,2-Dichloroethane-d4	18		20.00		91.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	18		20.00		90.5	70	130	0	0	
Surr: Dibromofluoromethane	17		20.00		85.0	70	130	0	0	
Surr: Toluene-d8	19		20.00		97.1	70	130	0	0	

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	vcb2	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R5561	RunNo:	5561					
Prep Date:		Analysis Date:	9/15/2012	SeqNo:	159082	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.2	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		90.6	70	130			
Surr: Dibromofluoromethane	8.4		10.00		83.6	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 25 of 30



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety & Environmental Solutions

Project: Yates Scripps Pit

Sample ID	1209612-001a dup	SampType:	dup	TestCode:	EPA 120.1: Specific Conductance					
Client ID:	BatchQC	Batch ID:	R5600	RunNo:	5600					
Prep Date:		Analysis Date:	9/18/2012	SeqNo:	160447	Units:	µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	470	0.010						1.49	20	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	1209596-003a dup	SampType:	dup	TestCode:	SM4500-H+B: pH					
Client ID:	BatchQC	Batch ID:	R5566	RunNo:	5566					
Prep Date:		Analysis Date:	9/14/2012	SeqNo:	159563	Units:	pH units			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	8.03	1.68								H

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597

29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	mb-1		SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW		Batch ID:	R5566		RunNo:	5566				
Prep Date:			Analysis Date:	9/14/2012		SeqNo:	159298	Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20									

Sample ID	lcs-1			SampType:	LCS			TestCode:	SM2320B: Alkalinity		
Client ID:	LCSW			Batch ID:	R5566			RunNo:	5566		
Prep Date:				Analysis Date:	9/14/2012			SeqNo:	159299	Units:	mg/L CaCO3
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	81	20	80.00	0	101	88.1	104				

Sample ID	1209585-007a ms			SampType:	MS			TestCode:	SM2320B: Alkalinity						
Client ID:	BatchQC			Batch ID:	R5566			RunNo:	5566						
Prep Date:				Analysis Date:	9/14/2012			SeqNo:	159306			Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	62.6	110			S					

Sample ID	1209585-007a msd			SampType:	MSD		TestCode:	SM2320B: Alkalinity			
Client ID:	BatchQC		Batch ID:	R5566		RunNo:	5566				
Prep Date:			Analysis Date:	9/14/2012		SeqNo:	159307		Units: mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20	80.00	0	0	59.9	111	0	10	S	

Sample ID	mb-2		SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW		Batch ID:	R5566		RunNo:	5566				
Prep Date:			Analysis Date:	9/14/2012		SeqNo:	159313	Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20									

Sample ID	lcs-2			SampType:	LCS			TestCode:	SM2320B: Alkalinity						
Client ID:	LCSW			Batch ID:	R5566			RunNo:	5566						
Prep Date:				Analysis Date:	9/14/2012			SeqNo:	159314			Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Total Alkalinity (as CaCO3)	82	20	80.00	0	102	88.1	104								

Sample ID	1209596-003a ms			SampType:	MS			TestCode:	SM2320B: Alkalinity						
Client ID:	BatchQC			Batch ID:	R5566			RunNo:	5566						
Prep Date:				Analysis Date:	9/14/2012			SeqNo:	159326			Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Total Alkalinity (as CaCO3)	84	20	80.00	69.72	17.7	62.6	110			S					

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	1209596-003a msd			SampType:	MSD		TestCode:	SM2320B: Alkalinity					
Client ID:	BatchQC		Batch ID:	R5566		RunNo:	5566						
Prep Date:				Analysis Date:	9/14/2012		SeqNo:	159327			Units:	mg/L CaCO3	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Total Alkalinity (as CaCO3)	82	20	80.00	69.72	15.9	59.9	111	1.78	10	S			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2
- B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209597  
29-Oct-12

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB-3782	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids						
Client ID:	PBW	Batch ID:	3782	RunNo:	5601						
Prep Date:	9/17/2012	Analysis Date:	9/18/2012	SeqNo:	160421	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Dissolved Solids	ND	20.0									

Sample ID	LCS-3782	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids						
Client ID:	LCSW	Batch ID:	3782	RunNo:	5601						
Prep Date:	9/17/2012	Analysis Date:	9/18/2012	SeqNo:	160422	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Dissolved Solids	1020	20.0	1000	0	102	80	120				

Sample ID	1209606-008AMS	SampType:	MS	TestCode:	SM2540C MOD: Total Dissolved Solids						
Client ID:	BatchQC	Batch ID:	3782	RunNo:	5601						
Prep Date:	9/17/2012	Analysis Date:	9/18/2012	SeqNo:	160438	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Dissolved Solids	1460	20.0	1000	442.0	102	80	120				

Sample ID	1209606-008AMSD	SampType:	MSD	TestCode:	SM2540C MOD: Total Dissolved Solids						
Client ID:	BatchQC	Batch ID:	3782	RunNo:	5601						
Prep Date:	9/17/2012	Analysis Date:	9/18/2012	SeqNo:	160439	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Dissolved Solids	1460	20.0	1000	442.0	102	80	120	0.0684	20		

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1209597

Received by/date:

09/14/12

Logged By: Ashley Gallegos

9/14/2012 9:15:00 AM

Completed By: Ashley Gallegos

9/14/2012 11:47:38 AM

Reviewed By:

09/14/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

Adjusted?

Checked by:

012  
<2 or >12 unless noted)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			



## Chain-of-Custody Record

Client: Safety & EnvironmentalSolutionsMailing Address: 903 E ClintonAlbuquerque, NMPhone #: 575-397-0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

Project Manager:

Boyer, Dave

Sampler:

Sosa, JerryOn Ice: ☒ Yes ☐ NoSample Temperature: ☐ ☐

Date Time Matrix Sample Request ID

09/12 1515 1620 mw-1

09/12 1535 1620 mw-2

09/12 1600 1620 mw-3

09/12 1635 1620 mw-4

Tri-Bank100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ Hel100XZ HelDate: 9/13/2020Time: 0700Relinquished by: Sosa, JerryDate: 9/13/2020Time: 1700Relinquished by: Boyer, DaveDate: 9/13/2020Time: 1700Relinquished by: Boyer, Dave

Received by:

Boyer, DaveDate: 9/13/2020Time: 0700

Received by:

Boyer, DaveDate: 9/13/2020Time: 0700

Received by:

Turn-Around Time:

☒ Standard ☐ RushProject Name: YatesScrapps Pt

Project #:

YAT-04-004

Project Manager:

Boyer, Dave

Sampler:

Sosa, JerryOn Ice: ☒ Yes ☐ NoSample Temperature: ☐ ☐

Container Type and #

7 Hel

Remarks:

BTEX, naphthaleneShort list.Short list.Short list.Short list.Short list.Short list.Short list.

## Analysis Request

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCBs

8260B (VOA) 2

8270 (Semi-VOA)

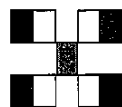
BTEX naphthalene

WPC Buss metals

Cadmium/Ammonia

Lab pH, Total Hg

Air Bubbles (Y or N)

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 07, 2013

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX (575) 393-4388

RE: Yates Scripps Pit

OrderNo.: 1212423

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/11/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued January 03, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 12/7/2012 11:20:00 AM

Lab ID: 1212423-001

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	12/11/2012 6:46:44 PM
Chloride	9500	500		mg/L	1000	12/12/2012 9:39:58 PM
Bromide	3.6	2.0		mg/L	20	12/11/2012 6:46:44 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	12/14/2012 12:12:06 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	12/11/2012 6:46:44 PM
Sulfate	1400	25		mg/L	50	12/12/2012 9:52:23 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Barium	0.049	0.0020		mg/L	1	12/13/2012 7:23:07 PM
Cadmium	ND	0.0020		mg/L	1	12/13/2012 7:23:07 PM
Calcium	2700	50		mg/L	50	12/18/2012 3:16:51 PM
Chromium	ND	0.0060		mg/L	1	12/13/2012 7:23:07 PM
Copper	ND	0.0060		mg/L	1	12/13/2012 7:23:07 PM
Iron	0.028	0.020		mg/L	1	12/18/2012 3:12:51 PM
Magnesium	1000	50		mg/L	50	12/18/2012 3:16:51 PM
Manganese	ND	0.0020		mg/L	1	12/13/2012 7:23:07 PM
Potassium	10	1.0		mg/L	1	12/18/2012 3:12:51 PM
Silver	ND	0.0050		mg/L	1	12/18/2012 3:12:51 PM
Sodium	910	50		mg/L	50	12/18/2012 3:16:51 PM
Zinc	0.025	0.010		mg/L	1	12/13/2012 7:23:07 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	0.0067	0.0050		mg/L	5	12/17/2012 1:51:36 PM
Lead	ND	0.010		mg/L	10	12/17/2012 2:31:00 PM
Selenium	0.041	0.010		mg/L	10	12/17/2012 2:31:00 PM
Uranium	0.027	0.010		mg/L	10	12/17/2012 2:31:00 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	ND	0.00020		mg/L	1	12/12/2012 3:19:13 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	1.0		µg/L	1	12/16/2012 7:31:13 PM
Toluene	ND	1.0		µg/L	1	12/16/2012 7:31:13 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2012 7:31:13 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2012 7:31:13 PM
Xylenes, Total	ND	2.0		µg/L	1	12/16/2012 7:31:13 PM
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%REC	1	12/16/2012 7:31:13 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%REC	1	12/16/2012 7:31:13 PM
Surr: Dibromofluoromethane	88.4	70-130		%REC	1	12/16/2012 7:31:13 PM
Surr: Toluene-d8	100	70-130		%REC	1	12/16/2012 7:31:13 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	36000	0.50		µmhos/cm	50	12/14/2012 7:00:54 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Yates Scripps Pit

Collection Date: 12/7/2012 11:20:00 AM

Lab ID: 1212423-001

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	6.83	1.68	H	pH units	1	12/13/2012 11:35:49 AM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	130	20		mg/L CaCO3	1	12/13/2012 11:35:49 AM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	12/13/2012 11:35:49 AM
Total Alkalinity (as CaCO3)	130	20		mg/L CaCO3	1	12/13/2012 11:35:49 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: JML
Total Dissolved Solids	21300	200		mg/L	1	12/17/2012 3:09:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 12/7/2012 11:45:00 AM

Lab ID: 1212423-002

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	12/11/2012 7:23:59 PM
Chloride	5300	250		mg/L	500	12/12/2012 10:29:37 PM
Bromide	ND	2.0		mg/L	20	12/11/2012 7:23:59 PM
Nitrate+Nitrite as N	ND	10		mg/L	50	12/14/2012 12:24:31 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	12/11/2012 7:23:59 PM
Sulfate	2400	50		mg/L	100	12/12/2012 10:42:01 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Barium	0.015	0.0020		mg/L	1	12/13/2012 7:30:48 PM
Cadmium	ND	0.0020		mg/L	1	12/13/2012 7:30:48 PM
Calcium	840	10		mg/L	10	12/26/2012 7:35:04 PM
Chromium	ND	0.0060		mg/L	1	12/13/2012 7:30:48 PM
Copper	ND	0.0060		mg/L	1	12/13/2012 7:30:48 PM
Iron	0.056	0.020		mg/L	1	12/18/2012 4:04:57 PM
Magnesium	480	10		mg/L	10	12/26/2012 7:35:04 PM
Manganese	0.014	0.0020		mg/L	1	12/13/2012 7:30:48 PM
Potassium	16	1.0		mg/L	1	12/18/2012 4:04:57 PM
Silver	ND	0.0050		mg/L	1	12/18/2012 4:04:57 PM
Sodium	3300	50		mg/L	50	12/26/2012 7:38:54 PM
Zinc	ND	0.010		mg/L	1	12/13/2012 7:30:48 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	0.0034	0.0010		mg/L	1	12/17/2012 12:40:40 PM
Lead	ND	0.010		mg/L	10	12/17/2012 2:38:51 PM
Selenium	0.027	0.010		mg/L	10	12/17/2012 2:38:51 PM
Uranium	0.013	0.010		mg/L	10	12/17/2012 2:38:51 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	ND	0.00020		mg/L	1	12/12/2012 3:24:31 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	1.0		µg/L	1	12/16/2012 7:59:14 PM
Toluene	ND	1.0		µg/L	1	12/16/2012 7:59:14 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2012 7:59:14 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2012 7:59:14 PM
Xylenes, Total	ND	2.0		µg/L	1	12/16/2012 7:59:14 PM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%REC	1	12/16/2012 7:59:14 PM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/16/2012 7:59:14 PM
Surr: Dibromofluoromethane	87.2	70-130		%REC	1	12/16/2012 7:59:14 PM
Surr: Toluene-d8	100	70-130		%REC	1	12/16/2012 7:59:14 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	25000	0.50		µmhos/cm	50	12/14/2012 7:05:22 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-2

Project: Yates Scripps Pit

Collection Date: 12/7/2012 11:45:00 AM

Lab ID: 1212423-002

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	7.12	1.68	H	pH units	1	12/13/2012 12:12:54 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	200	20		mg/L CaCO3	1	12/13/2012 12:12:54 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	12/13/2012 12:12:54 PM
Total Alkalinity (as CaCO3)	200	20		mg/L CaCO3	1	12/13/2012 12:12:54 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: JML
Total Dissolved Solids	13400	100		mg/L	1	12/17/2012 3:09:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 12/7/2012 12:40:00 PM

Lab ID: 1212423-003

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	12/12/2012 11:02:23 AM
Chloride	19000	500		mg/L	1000	12/13/2012 8:44:50 PM
Bromide	ND	2.0		mg/L	20	12/12/2012 11:02:23 AM
Nitrate+Nitrite as N	ND	20		mg/L	100	12/14/2012 12:36:56 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	12/12/2012 11:02:23 AM
Sulfate	2400	50		mg/L	100	12/13/2012 8:57:15 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Barium	0.028	0.0020		mg/L	1	12/13/2012 7:38:42 PM
Cadmium	ND	0.0020		mg/L	1	12/13/2012 7:38:42 PM
Calcium	1800	20		mg/L	20	12/18/2012 3:20:25 PM
Chromium	ND	0.0060		mg/L	1	12/13/2012 7:38:42 PM
Copper	ND	0.0060		mg/L	1	12/13/2012 7:38:42 PM
Iron	0.071	0.020		mg/L	1	12/18/2012 3:57:31 PM
Magnesium	670	20		mg/L	20	12/18/2012 3:20:25 PM
Manganese	0.15	0.0020	*	mg/L	1	12/13/2012 7:38:42 PM
Potassium	55	1.0		mg/L	1	12/18/2012 3:57:31 PM
Silver	ND	0.0050		mg/L	1	12/18/2012 3:57:31 PM
Sodium	8400	100		mg/L	100	12/18/2012 7:58:03 PM
Zinc	ND	0.010		mg/L	1	12/13/2012 7:38:42 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	0.0066	0.0050		mg/L	5	12/17/2012 1:59:28 PM
Lead	ND	0.020		mg/L	20	12/17/2012 2:54:38 PM
Selenium	0.029	0.020		mg/L	20	12/17/2012 2:54:38 PM
Uranium	ND	0.020		mg/L	20	12/17/2012 2:54:38 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	0.0028	0.00020	*	mg/L	1	12/12/2012 3:26:18 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	9.7	1.0		µg/L	1	12/16/2012 8:27:07 PM
Toluene	ND	1.0		µg/L	1	12/16/2012 8:27:07 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2012 8:27:07 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2012 8:27:07 PM
Xylenes, Total	ND	2.0		µg/L	1	12/16/2012 8:27:07 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	12/16/2012 8:27:07 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%REC	1	12/16/2012 8:27:07 PM
Surr: Dibromofluoromethane	89.9	70-130		%REC	1	12/16/2012 8:27:07 PM
Surr: Toluene-d8	99.1	70-130		%REC	1	12/16/2012 8:27:07 PM
<b>EPA 120.1: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	62000	0.50		µmhos/cm	50	12/14/2012 7:09:51 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212423

Date Reported: 1/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-4

Project: Yates Scripps Pit

Collection Date: 12/7/2012 12:40:00 PM

Lab ID: 1212423-003

Matrix: AQUEOUS

Received Date: 12/11/2012 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	6.95	1.68	H	pH units	1	12/13/2012 12:25:03 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	240	20		mg/L CaCO3	1	12/13/2012 12:25:03 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	12/13/2012 12:25:03 PM
Total Alkalinity (as CaCO3)	240	20		mg/L CaCO3	1	12/13/2012 12:25:03 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: JML
Total Dissolved Solids	31600	200		mg/L	1	12/17/2012 3:09:00 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-4				
CATIONS	1212423-01	1212423-02	1212423-03	1212423-03	1212423-03	1212423-03	mg/L	meq/L	mg/L
Sodium	910	39.58	3300	143.54	8400	365.38			
Potassium	10	0.26	16	0.41	55.0	1.41			
Calcium	2700	134.73	840	41.92	1800	89.82			
Magnesium	1000	82.30	480	39.51	670.0	55.14			
<b>Total Cations</b>		256.87		225.37		511.75			
<b>ANIONS</b>									
Sulfate	1400	29.15	2400	49.97	2400	49.97			
Chloride	9500	267.98	5300	149.51	19000	535.97			
Bicarbonate (CaCO <sub>3</sub> )	130	2.60	200	4.00	240	4.80			
Carbonate (CaCO <sub>3</sub> )									
Phosphate (P)									
Nitrite (N)									
Nitrate (N)									
Fluoride									
Bromide	3.60	0.05							
<b>Total Anions</b>		299.77		203.47		590.73			
Elect. Cond. (µMhos/cm)	36000		25000		62000				
<b>CATION/ANION RATIO</b>		0.86		1.11		0.87			
% Difference		8		5		7			
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>									
TDS (measured)	21300		13400		31600				
TDS (calculated)	15602		12456		32469				
Ratio meas TDS:calc TDS		1.4		1.1		1.0			
Ratio Meas. TDS:EC		0.59		0.54		0.51			
Ratio Calc. TDS:EC		0.43		0.50		0.52			
Ratio of anion sum:EC		0.8		0.8		1.0			
Ratio of cation sum:EC		0.7		0.9		0.8			

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R7491			RunNo: 7491					
Prep Date:		Analysis Date: 12/13/2012			SeqNo: 217062		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Manganese	ND	0.0020								
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R7491		RunNo: 7491					
Prep Date:			Analysis Date: 12/13/2012		SeqNo: 217063		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	95.4	85	115			
Cadmium	0.48	0.0020	0.5000	0	95.6	85	115			
Chromium	0.48	0.0060	0.5000	0.001010	95.4	85	115			
Copper	0.46	0.0060	0.5000	0	91.1	85	115			
Manganese	0.46	0.0020	0.5000	0	92.2	85	115			
Zinc	0.48	0.010	0.5000	0	95.3	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R7569			RunNo: 7569					
Prep Date:		Analysis Date: 12/18/2012			SeqNo: 219677		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Iron	ND	0.020								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R7569		RunNo: 7569					
Prep Date:			Analysis Date: 12/18/2012		SeqNo: 219678		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0.03548	101	85	115			
Iron	0.48	0.020	0.5000	0.002200	96.5	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	49	1.0	50.00	0	98.5	85	115			
Silver	0.10	0.0050	0.1000	0	99.7	85	115			
Sodium	50	1.0	50.00	0.1105	100	85	115			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- H

Holding times for preparation or analysis exceeded
- J

Analyte detected below quantitation limits
- ND

Not Detected at the Reporting Limit
- P

Sample pH greater than 2
- R

RPD outside accepted recovery limits



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals						
Client ID:	PBW	Batch ID:	R7716	RunNo:	7716						
Prep Date:		Analysis Date:	12/26/2012	SeqNo:	224246	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Calcium	ND	1.0									
Magnesium	ND	1.0									
Sodium	ND	1.0									

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals						
Client ID:	LCSW	Batch ID:	R7716	RunNo:	7716						
Prep Date:		Analysis Date:	12/26/2012	SeqNo:	224248	Units:	mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Calcium	51	1.0	50.00	0	101	85	115				
Magnesium	51	1.0	50.00	0	102	85	115				
Sodium	50	1.0	50.00	0.06303	101	85	115				

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1212423

07-Jan-13

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA 200.8: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R7543</b>				RunNo: <b>7543</b>					
Prep Date:	Analysis Date: <b>12/17/2012</b>				SeqNo: <b>218897</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	101	85	115			
Lead	0.026	0.0010	0.02500	0	102	85	115			
Selenium	0.025	0.0010	0.02500	0	102	85	115			
Uranium	0.026	0.0010	0.02500	0	103	85	115			

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA 200.8: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R7543</b>				RunNo: <b>7543</b>					
Prep Date:	Analysis Date: <b>12/17/2012</b>				SeqNo: <b>218898</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	97.6	85	115			
Lead	0.024	0.0010	0.02500	0	94.6	85	115			
Selenium	0.024	0.0010	0.02500	0	97.8	85	115			
Uranium	0.026	0.0010	0.02500	0	104	85	115			

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA 200.8: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R7543</b>				RunNo: <b>7543</b>					
Prep Date:	Analysis Date: <b>12/17/2012</b>				SeqNo: <b>218899</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.8	85	115			
Selenium	0.025	0.0010	0.02500	0	98.7	85	115			
Uranium	0.026	0.0010	0.02500	0	102	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA 200.8: Dissolved Metals</b>					
Client ID: <b>PBW</b>	Batch ID: <b>R7543</b>				RunNo: <b>7543</b>					
Prep Date:	Analysis Date: <b>12/17/2012</b>				SeqNo: <b>218900</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID <b>MB</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA 200.8: Dissolved Metals</b>					
Client ID: <b>PBW</b>	Batch ID: <b>R7543</b>				RunNo: <b>7543</b>					
Prep Date:	Analysis Date: <b>12/17/2012</b>				SeqNo: <b>218901</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R7543	RunNo:	7543					
Prep Date:		Analysis Date:	12/17/2012	SeqNo:	218901	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Uranium	ND	0.0010								

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R7543	RunNo:	7543					
Prep Date:		Analysis Date:	12/17/2012	SeqNo:	218902	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	MB-5231	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	5231	RunNo:	7452					
Prep Date:	12/12/2012	Analysis Date:	12/12/2012	SeqNo:	215998	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-5231	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	5231	RunNo:	7452					
Prep Date:	12/12/2012	Analysis Date:	12/12/2012	SeqNo:	215999	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	93.8	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1212423

07-Jan-13

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R7440</b>		RunNo: <b>7440</b>							
Prep Date:	Analysis Date: <b>12/11/2012</b>		SeqNo: <b>215651</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID <b>LCS-B</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R7440</b>		RunNo: <b>7440</b>							
Prep Date:	Analysis Date: <b>12/11/2012</b>		SeqNo: <b>215655</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	95.3	90	110			
Bromide	2.3	0.10	2.500	0	92.9	90	110			
Phosphorus, Orthophosphate (As P)	4.9	0.50	5.000	0	97.8	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R7462</b>		RunNo: <b>7462</b>							
Prep Date:	Analysis Date: <b>12/12/2012</b>		SeqNo: <b>216326</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R7462</b>		RunNo: <b>7462</b>							
Prep Date:	Analysis Date: <b>12/12/2012</b>		SeqNo: <b>216327</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.0	90	110			
Bromide	2.4	0.10	2.500	0	94.9	90	110			
Phosphorus, Orthophosphate (As P)	5.0	0.50	5.000	0	99.9	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R7473</b>		RunNo: <b>7473</b>							
Prep Date:	Analysis Date: <b>12/12/2012</b>		SeqNo: <b>216676</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1212423

07-Jan-13

**Client:** Safety & Environmental Solutions**Project:** Yates Scripps Pit

Sample ID <b>LCS-b</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R7473</b>			RunNo: <b>7473</b>						
Prep Date:	Analysis Date: <b>12/12/2012</b>			SeqNo: <b>216684</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.1	90	110			
Sulfate	9.5	0.50	10.00	0	94.7	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R7497</b>			RunNo: <b>7497</b>						
Prep Date:	Analysis Date: <b>12/13/2012</b>			SeqNo: <b>217278</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R7497</b>			RunNo: <b>7497</b>						
Prep Date:	Analysis Date: <b>12/13/2012</b>			SeqNo: <b>217279</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.0	90	110			
Sulfate	9.7	0.50	10.00	0	96.7	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R7503</b>			RunNo: <b>7503</b>						
Prep Date:	Analysis Date: <b>12/13/2012</b>			SeqNo: <b>217525</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R7503</b>			RunNo: <b>7503</b>						
Prep Date:	Analysis Date: <b>12/13/2012</b>			SeqNo: <b>217526</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.4	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423

07-Jan-13

Client: Safety &amp; Environmental Solutions

Project: Yates Scripps Pit

Sample ID <b>b11</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R7525</b>		RunNo: <b>7525</b>							
Prep Date:	Analysis Date: <b>12/16/2012</b>		SeqNo: <b>218330</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	8.8		10.00		87.6	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID <b>100ng lcs2</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R7525</b>		RunNo: <b>7525</b>							
Prep Date:	Analysis Date: <b>12/16/2012</b>		SeqNo: <b>218331</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	97.9	70	130			
Toluene	21	1.0	20.00	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.2	70	130			
Surr: Toluene-d8	9.7		10.00		97.5	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH greater than 2

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions  
Project: Yates Scripps Pit

Sample ID	mb-1	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R7500	RunNo:	7500					
Prep Date:		Analysis Date:	12/13/2012	SeqNo:	217465	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	lcs-1	SampType:	LCS	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R7500	RunNo:	7500					
Prep Date:		Analysis Date:	12/13/2012	SeqNo:	217466	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	81	20	80.00	0	102	88.1	104			

Sample ID	mb-2	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R7500	RunNo:	7500					
Prep Date:		Analysis Date:	12/13/2012	SeqNo:	217479	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	lcs-2	SampType:	LCS	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R7500	RunNo:	7500					
Prep Date:		Analysis Date:	12/13/2012	SeqNo:	217480	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	82	20	80.00	0	102	88.1	104			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212423  
07-Jan-13

Client: Safety & Environmental Solutions

Project: Yates Scripps Pit

Sample ID	MB-5278	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	5278	RunNo:	7538					
Prep Date:	12/14/2012	Analysis Date:	12/17/2012	SeqNo:	218745	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-5278	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	5278	RunNo:	7538					
Prep Date:	12/14/2012	Analysis Date:	12/17/2012	SeqNo:	218746	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87106  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Number:	1212423
Received by/date:	LM 12/11/12		
Logged By:	Michelle Garcia	12/11/2012 8:30:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	12/11/2012 9:33:55 AM	Michelle Garcia
Reviewed By:	[Signature]	12/11/12	

**Chain of Custody**

- Were seals intact? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? FedEx

**Log In**

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	9
Adjusted? ( $<2$ or $>12$ unless noted)	NO
Checked by:	[Signature]

**Special Handling (if applicable)**

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	[Signature]	Date:	[Signature]
By Whom:	[Signature]	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	[Signature]		
Client Instructions:	[Signature]		

- Additional remarks:

**19. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 04, 2013

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX (575) 393-4388

RE: Scripps Pit

OrderNo.: 1303558

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/14/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/12/2013 2:15:00 PM

Lab ID: 1303558-001

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	3/16/2013 4:28:35 AM
Chloride	15000	500		mg/L	1000	3/20/2013 1:05:43 AM
Bromide	7.9	2.0		mg/L	20	3/18/2013 8:23:16 PM
Nitrate+Nitrite as N	ND	10		mg/L	50	3/20/2013 2:20:12 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/18/2013 8:23:16 PM
Sulfate	1600	25		mg/L	50	3/18/2013 9:50:08 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.046	0.0020		mg/L	1	3/15/2013 5:01:50 PM
Cadmium	ND	0.0020		mg/L	1	3/15/2013 5:01:50 PM
Calcium	3200	50		mg/L	50	3/21/2013 2:10:10 PM
Chromium	0.0068	0.0060		mg/L	1	3/21/2013 2:05:22 PM
Copper	ND	0.0060		mg/L	1	3/15/2013 5:01:50 PM
Iron	ND	0.020		mg/L	1	3/15/2013 5:01:50 PM
Lead	ND	0.0050		mg/L	1	3/15/2013 5:01:50 PM
Magnesium	1200	50		mg/L	50	3/21/2013 2:10:10 PM
Manganese	ND	0.0020		mg/L	1	3/15/2013 5:01:50 PM
Potassium	6.7	1.0		mg/L	1	3/21/2013 2:05:22 PM
Silver	ND	0.0050		mg/L	1	3/21/2013 2:05:22 PM
Sodium	900	50		mg/L	50	4/2/2013 12:55:56 PM
Zinc	0.016	0.010		mg/L	1	3/21/2013 2:05:22 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.010		mg/L	10	3/18/2013 3:32:36 PM
Selenium	0.031	0.010		mg/L	10	3/18/2013 3:32:36 PM
Uranium	0.024	0.010		mg/L	10	3/18/2013 3:32:36 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	ND	0.00020		mg/L	1	3/22/2013 9:12:00 AM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/19/2013 6:28:05 PM
Toluene	ND	1.0		µg/L	1	3/19/2013 6:28:05 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2013 6:28:05 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2013 6:28:05 PM
Xylenes, Total	ND	2.0		µg/L	1	3/19/2013 6:28:05 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%REC	1	3/19/2013 6:28:05 PM
Surr: 4-Bromofluorobenzene	85.8	69.5-130		%REC	1	3/19/2013 6:28:05 PM
Surr: Dibromofluoromethane	84.3	70-130		%REC	1	3/19/2013 6:28:05 PM
Surr: Toluene-d8	92.4	70-130		%REC	1	3/19/2013 6:28:05 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	49000	0.50		µmhos/cm	50	3/15/2013 7:32:15 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/12/2013 2:15:00 PM

Lab ID: 1303558-001

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	7.01	1.68	H	pH units	1	3/14/2013 7:11:48 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	150	20		mg/L CaCO3	1	3/14/2013 7:11:48 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	3/14/2013 7:11:48 PM
Total Alkalinity (as CaCO3)	150	20		mg/L CaCO3	1	3/14/2013 7:11:48 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	27000	400	*	mg/L	1	3/18/2013 8:00:00 AM

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Released to Imaging: 9/20/2024 3:04:43 PM

## Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/12/2013 2:30:00 PM

Lab ID: 1303558-002

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	3/16/2013 3:38:58 AM
Chloride	6000	250		mg/L	500	3/18/2013 10:39:47 PM
Bromide	3.7	2.0		mg/L	20	3/18/2013 10:14:57 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	3/19/2013 12:43:54 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/18/2013 10:14:57 PM
Sulfate	2600	50		mg/L	100	3/18/2013 10:27:22 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.014	0.0020		mg/L	1	3/15/2013 5:16:37 PM
Cadmium	ND	0.0020		mg/L	1	3/15/2013 5:16:37 PM
Calcium	830	10		mg/L	10	3/21/2013 2:15:08 PM
Chromium	ND	0.0060		mg/L	1	3/21/2013 2:12:26 PM
Copper	ND	0.0060		mg/L	1	3/15/2013 5:16:37 PM
Iron	0.060	0.020		mg/L	1	3/15/2013 5:16:37 PM
Lead	ND	0.0050		mg/L	1	3/15/2013 5:16:37 PM
Magnesium	460	10		mg/L	10	3/21/2013 2:15:08 PM
Manganese	0.026	0.0020		mg/L	1	3/15/2013 5:16:37 PM
Potassium	12	1.0		mg/L	1	3/21/2013 2:12:26 PM
Silver	ND	0.0050		mg/L	1	3/15/2013 5:16:37 PM
Sodium	3100	50		mg/L	50	3/25/2013 4:09:46 PM
Zinc	0.012	0.010		mg/L	1	3/21/2013 2:12:26 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	3/18/2013 3:36:23 PM
Selenium	0.017	0.0050		mg/L	5	3/18/2013 3:36:23 PM
Uranium	0.012	0.0050		mg/L	5	3/18/2013 3:36:23 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	ND	0.00020		mg/L	1	3/22/2013 9:13:51 AM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/19/2013 7:00:24 PM
Toluene	ND	1.0		µg/L	1	3/19/2013 7:00:24 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2013 7:00:24 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2013 7:00:24 PM
Xylenes, Total	ND	2.0		µg/L	1	3/19/2013 7:00:24 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	3/19/2013 7:00:24 PM
Surr: 4-Bromofluorobenzene	89.6	69.5-130		%REC	1	3/19/2013 7:00:24 PM
Surr: Dibromofluoromethane	90.6	70-130		%REC	1	3/19/2013 7:00:24 PM
Surr: Toluene-d8	91.7	70-130		%REC	1	3/19/2013 7:00:24 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	26000	0.50		µmhos/cm	50	3/15/2013 7:36:42 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/12/2013 2:30:00 PM

Lab ID: 1303558-002

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	7.17	1.68	H	pH units	1	3/14/2013 7:22:37 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	200	20		mg/L CaCO3	1	3/14/2013 7:22:37 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	3/14/2013 7:22:37 PM
Total Alkalinity (as CaCO3)	200	20		mg/L CaCO3	1	3/14/2013 7:22:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	13600	400	*	mg/L	1	3/18/2013 8:00:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



## Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/12/2013 2:50:00 PM

Lab ID: 1303558-003

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	3/16/2013 4:03:46 AM
Chloride	19000	500		mg/L	1000	3/20/2013 1:18:07 AM
Bromide	7.7	2.0		mg/L	20	3/18/2013 11:29:26 PM
Nitrate+Nitrite as N	ND	10		mg/L	50	3/20/2013 2:32:36 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/18/2013 11:29:26 PM
Sulfate	2500	50		mg/L	100	3/18/2013 11:41:51 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.027	0.0020		mg/L	1	3/15/2013 5:22:15 PM
Cadmium	ND	0.0020		mg/L	1	3/15/2013 5:22:15 PM
Calcium	1500	500		mg/L	500	3/21/2013 2:24:37 PM
Chromium	ND	0.0060		mg/L	1	3/21/2013 2:19:46 PM
Copper	ND	0.0060		mg/L	1	3/15/2013 5:22:15 PM
Iron	0.038	0.020		mg/L	1	3/15/2013 5:22:15 PM
Lead	ND	0.0050		mg/L	1	3/21/2013 2:19:46 PM
Magnesium	550	10		mg/L	10	3/21/2013 2:22:12 PM
Manganese	0.21	0.0020	*	mg/L	1	3/15/2013 5:22:15 PM
Potassium	45	1.0		mg/L	1	3/21/2013 2:19:46 PM
Silver	ND	0.0050		mg/L	1	3/15/2013 5:22:15 PM
Sodium	9300	500		mg/L	500	4/2/2013 12:58:40 PM
Zinc	ND	0.010		mg/L	1	3/21/2013 2:19:46 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.010		mg/L	10	3/18/2013 3:40:09 PM
Selenium	0.013	0.010		mg/L	10	3/18/2013 3:40:09 PM
Uranium	0.014	0.010		mg/L	10	3/18/2013 3:40:09 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	0.00097	0.00020		mg/L	1	3/22/2013 9:15:42 AM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	10	1.0		µg/L	1	3/19/2013 7:32:38 PM
Toluene	ND	1.0		µg/L	1	3/19/2013 7:32:38 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2013 7:32:38 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2013 7:32:38 PM
Xylenes, Total	ND	2.0		µg/L	1	3/19/2013 7:32:38 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	3/19/2013 7:32:38 PM
Surr: 4-Bromofluorobenzene	84.7	69.5-130		%REC	1	3/19/2013 7:32:38 PM
Surr: Dibromofluoromethane	90.2	70-130		%REC	1	3/19/2013 7:32:38 PM
Surr: Toluene-d8	90.7	70-130		%REC	1	3/19/2013 7:32:38 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	63000	0.50		µmhos/cm	50	3/15/2013 7:41:09 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/12/2013 2:50:00 PM

Lab ID: 1303558-003

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	7.06	1.68	H	pH units	1	3/14/2013 7:35:11 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	250	20		mg/L CaCO3	1	3/14/2013 7:35:11 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	3/14/2013 7:35:11 PM
Total Alkalinity (as CaCO3)	250	20		mg/L CaCO3	1	3/14/2013 7:35:11 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	33800	1000	*	mg/L	1	3/18/2013 8:00:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

## Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/12/2013 3:15:00 PM

Lab ID: 1303558-004

Matrix: AQUEOUS

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Fluoride	ND	2.0		mg/L	20	3/16/2013 4:41:00 AM
Chloride	4100	250		mg/L	500	3/19/2013 12:19:06 AM
Bromide	3.1	2.0		mg/L	20	3/18/2013 11:54:16 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	3/19/2013 1:08:44 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/18/2013 11:54:16 PM
Sulfate	2500	50		mg/L	100	3/19/2013 12:06:41 AM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JLF
Barium	0.015	0.0020		mg/L	1	3/15/2013 5:27:40 PM
Cadmium	ND	0.0020		mg/L	1	3/15/2013 5:27:40 PM
Calcium	560	10		mg/L	10	3/21/2013 2:39:44 PM
Chromium	ND	0.0060		mg/L	1	3/21/2013 2:26:48 PM
Copper	ND	0.0060		mg/L	1	3/15/2013 5:27:40 PM
Iron	0.043	0.020		mg/L	1	3/15/2013 5:27:40 PM
Lead	0.0073	0.0050		mg/L	1	3/15/2013 5:27:40 PM
Magnesium	340	10		mg/L	10	3/21/2013 2:39:44 PM
Manganese	0.058	0.0020	*	mg/L	1	3/15/2013 5:27:40 PM
Potassium	10	1.0		mg/L	1	3/21/2013 2:26:48 PM
Silver	ND	0.0050		mg/L	1	3/15/2013 5:27:40 PM
Sodium	2100	50		mg/L	50	3/25/2013 4:12:27 PM
Zinc	0.042	0.010		mg/L	1	3/21/2013 2:26:48 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: DBD
Arsenic	ND	0.0050		mg/L	5	3/18/2013 3:43:55 PM
Selenium	0.014	0.0050		mg/L	5	3/18/2013 3:43:55 PM
Uranium	0.011	0.0050		mg/L	5	3/18/2013 3:43:55 PM
<b>EPA METHOD 245.1: MERCURY</b>						Analyst: TMG
Mercury	ND	0.00020		mg/L	1	3/22/2013 9:17:33 AM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/19/2013 8:04:50 PM
Toluene	ND	1.0		µg/L	1	3/19/2013 8:04:50 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2013 8:04:50 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2013 8:04:50 PM
Xylenes, Total	ND	2.0		µg/L	1	3/19/2013 8:04:50 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	3/19/2013 8:04:50 PM
Surr: 4-Bromofluorobenzene	88.9	69.5-130		%REC	1	3/19/2013 8:04:50 PM
Surr: Dibromofluoromethane	88.3	70-130		%REC	1	3/19/2013 8:04:50 PM
Surr: Toluene-d8	88.6	70-130		%REC	1	3/19/2013 8:04:50 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: JML
Conductivity	15000	0.025		µmhos/cm	2.5	3/15/2013 7:45:35 PM
<b>SM4500-H+B: PH</b>						Analyst: JML

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-3  
Project: Scripps Pit      Collection Date: 3/12/2013 3:15:00 PM  
Lab ID: 1303558-004      Matrix: AQUEOUS      Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						
						Analyst: JML
pH	7.25	1.68	H	pH units	1	3/14/2013 7:50:02 PM
SM2320B: ALKALINITY						
						Analyst: JML
Bicarbonate (As CaCO3)	270	20		mg/L CaCO3	1	3/14/2013 7:50:02 PM
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	3/14/2013 7:50:02 PM
Total Alkalinity (as CaCO3)	270	20		mg/L CaCO3	1	3/14/2013 7:50:02 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
						Analyst: KS
Total Dissolved Solids	10800	200	*	mg/L	1	3/18/2013 8:00:00 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303558

Date Reported: 4/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Trip Blank

Project: Scripps Pit

Collection Date:

Lab ID: 1303558-005

Matrix: TRIP BLANK

Received Date: 3/14/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/19/2013 8:37:11 PM
Toluene	ND	1.0		µg/L	1	3/19/2013 8:37:11 PM
Ethylbenzene	ND	1.0		µg/L	1	3/19/2013 8:37:11 PM
Naphthalene	ND	2.0		µg/L	1	3/19/2013 8:37:11 PM
Xylenes, Total	ND	2.0		µg/L	1	3/19/2013 8:37:11 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	3/19/2013 8:37:11 PM
Surr: 4-Bromofluorobenzene	87.2	69.5-130		%REC	1	3/19/2013 8:37:11 PM
Surr: Dibromofluoromethane	93.9	70-130		%REC	1	3/19/2013 8:37:11 PM
Surr: Toluene-d8	88.1	70-130		%REC	1	3/19/2013 8:37:11 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	P	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MWV-1 1303558-01		MW-2 1303558-02		MW-4 1303558-03		MW-3 1303558-04	
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	910	39.15	3100	134.84	9300	404.52	2100	91.34
Potassium	10	0.17	12	0.31	45	1.15	10	0.26
Calcium	2700	3200	830	41.42	1500	74.85	560	27.94
Magnesium	1200	98.77	460	37.86	550	45.27	340	27.98
<b>Total Cations</b>	<b>256</b>	<b>297.76</b>	<b>214.43</b>		<b>525.79</b>		<b>147.53</b>	
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	1600	33.31	2600	54.13	2500	52.05	2500	52.05
Chloride	15000	423.13	6000	169.25	19000	535.97	4100	115.66
Bicarbonate (CaCO <sub>3</sub> )	150	3.00	200	4.00	250	5.00	270	5.40
Carbonate (CaCO <sub>3</sub> )								
Phosphate (P)								
Nitrite (N)								
Nitrate (N)								
Fluoride								
Bromide	7.9	0.10	3.70	0.05	7.70	0.10	3.1	0.04
<b>Total Anions</b>	<b>299</b>	<b>459.54</b>	<b>227.43</b>		<b>593.11</b>		<b>173.14</b>	
Elect. Cond. (µMhos/cm)	49000		26000		63000		15000	
<b>CATION/ANION RATIO</b>	<b>0.65</b>		<b>0.94</b>		<b>0.89</b>		<b>0.85</b>	
% Difference	21		3		6		8	
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>								
TDS (measured)	27000		13600		33800		10800	
TDS (calculated)	22005		13126		33053		9775	
Ratio meas TDS:calc TDS	1.2		1.0		1.0		1.1	
Ratio Meas. TDS:EC	0.55		0.52		0.54		0.72	
Ratio Calc. TDS:EC	0.45		0.50		0.52		0.65	
Ratio of anion sum:EC	0.9		0.9		0.9		1.2	
Ratio of cation sum:EC	0.6		0.8		0.8		1.0	

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1303558

04-Apr-13

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R9231</b>		RunNo: <b>9231</b>							
Prep Date: <b>1/24/2013</b>	Analysis Date: <b>3/15/2013</b>		SeqNo: <b>262590</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R9231</b>		RunNo: <b>9231</b>							
Prep Date:	Analysis Date: <b>3/15/2013</b>		SeqNo: <b>262591</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.8	85	115			
Copper	0.49	0.0060	0.5000	0	98.0	85	115			
Iron	0.49	0.020	0.5000	0	97.7	85	115			
Lead	0.51	0.0050	0.5000	0	102	85	115			
Manganese	0.50	0.0020	0.5000	0	100	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R9340</b>		RunNo: <b>9340</b>							
Prep Date: <b>2/22/2013</b>	Analysis Date: <b>3/21/2013</b>		SeqNo: <b>266289</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R9340</b>		RunNo: <b>9340</b>							
Prep Date:	Analysis Date: <b>3/21/2013</b>		SeqNo: <b>266290</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.8	85	115			
Chromium	0.51	0.0060	0.5000	0	101	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1303558

04-Apr-13

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R9340</b>				RunNo: <b>9340</b>					
Prep Date:	Analysis Date: <b>3/21/2013</b>				SeqNo: <b>266290</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.51	0.0050	0.5000	0	102	85	115			
Magnesium	48	1.0	50.00	0	95.4	85	115			
Potassium	47	1.0	50.00	0	93.8	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Zinc	0.52	0.010	0.5000	0	104	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>PBW</b>	Batch ID: <b>R9400</b>				RunNo: <b>9400</b>					
Prep Date: <b>2/22/2013</b>	Analysis Date: <b>3/25/2013</b>				SeqNo: <b>268365</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R9400</b>				RunNo: <b>9400</b>					
Prep Date:	Analysis Date: <b>3/25/2013</b>				SeqNo: <b>268366</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	50	1.0	50.00	0	99.7	85	115			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>PBW</b>	Batch ID: <b>R9603</b>				RunNo: <b>9603</b>					
Prep Date: <b>2/22/2013</b>	Analysis Date: <b>4/2/2013</b>				SeqNo: <b>273747</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>R9603</b>				RunNo: <b>9603</b>					
Prep Date:	Analysis Date: <b>4/2/2013</b>				SeqNo: <b>273748</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	47	1.0	50.00	0	94.5	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH greater than 2  
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558

04-Apr-13

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID	LCS			SampType: LCS		TestCode: EPA 200.8: Dissolved Metals				
Client ID:	LCSW			Batch ID: R9252		RunNo: 9252				
Prep Date:				Analysis Date: 3/18/2013		SeqNo: 263477		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	97.4	85	115			
Selenium	0.024	0.0010	0.02500	0	94.2	85	115			
Uranium	0.026	0.0010	0.02500	0	103	85	115			

Sample ID	LCS			SampType: LCS		TestCode: EPA 200.8: Dissolved Metals				
Client ID:	LCSW			Batch ID: R9252		RunNo: 9252				
Prep Date:				Analysis Date: 3/18/2013		SeqNo: 263478		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	96.2	85	115			
Selenium	0.024	0.0010	0.02500	0	95.4	85	115			
Uranium	0.025	0.0010	0.02500	0	101	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID: R9252			RunNo: 9252					
Prep Date:		Analysis Date: 3/18/2013			SeqNo: 263479		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	MB		SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals					
Client ID:	PBW		Batch ID: R9252		RunNo: 9252					
Prep Date:			Analysis Date: 3/18/2013		SeqNo: 263480		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E Value above quantitation range	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
P Sample pH greater than 2	R RPD outside accepted recovery limits
RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558  
04-Apr-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB-6598	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	6598	RunNo:	9354					
Prep Date:	3/21/2013	Analysis Date:	3/22/2013	SeqNo:	266705	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-6598	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	6598	RunNo:	9354					
Prep Date:	3/21/2013	Analysis Date:	3/22/2013	SeqNo:	266706	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0047	0.00020	0.005000	0	95.0	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558

04-Apr-13

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R9237</b>		RunNo: <b>9237</b>							
Prep Date:	Analysis Date: <b>3/15/2013</b>		SeqNo: <b>262772</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R9237</b>		RunNo: <b>9237</b>							
Prep Date:	Analysis Date: <b>3/15/2013</b>		SeqNo: <b>262773</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.3	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R9261</b>		RunNo: <b>9261</b>							
Prep Date:	Analysis Date: <b>3/18/2013</b>		SeqNo: <b>263964</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R9261</b>		RunNo: <b>9261</b>							
Prep Date:	Analysis Date: <b>3/18/2013</b>		SeqNo: <b>263965</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Bromide	2.4	0.10	2.500	0	97.6	90	110			
Phosphorus, Orthophosphate (As P	5.2	0.50	5.000	0	104	90	110			
Sulfate	9.9	0.50	10.00	0	99.0	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	100	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R9288</b>		RunNo: <b>9288</b>							
Prep Date:	Analysis Date: <b>3/19/2013</b>		SeqNo: <b>264799</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558  
04-Apr-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R9288	RunNo:	9288					
Prep Date:		Analysis Date:	3/19/2013	SeqNo:	264800	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.6	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.7	90	110			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH greater than 2
- RL

Reporting Detection Limit
- B

Analyte detected in the associated Method Blank
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- R

RPD outside accepted recovery limits
- S

Spike Recovery outside accepted recovery limits



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558

04-Apr-13

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R9277	RunNo:	9277					
Prep Date:		Analysis Date:	3/19/2013	SeqNo:	264439	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130			
Surr: 4-Bromofluorobenzene	8.6		10.00		86.3	69.5	130			
Surr: Dibromofluoromethane	9.2		10.00		92.2	70	130			
Surr: Toluene-d8	9.5		10.00		95.4	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R9277	RunNo:	9277					
Prep Date:		Analysis Date:	3/19/2013	SeqNo:	264440	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	99.3	80	120			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.6	69.5	130			
Surr: Dibromofluoromethane	9.3		10.00		93.2	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558

04-Apr-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	mb-1	SampType:	mblk	TestCode:	SM2320B: Alkalinity						
Client ID:	PBW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261658	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20									

Sample ID	ics-1	SampType:	ics	TestCode:	SM2320B: Alkalinity						
Client ID:	LCSW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261659	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	79	20	80.00	0	98.8	90	110				

Sample ID	mb-2	SampType:	mblk	TestCode:	SM2320B: Alkalinity						
Client ID:	PBW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261682	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20									

Sample ID	ics-2	SampType:	ics	TestCode:	SM2320B: Alkalinity						
Client ID:	LCSW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261683	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	79	20	80.00	0	98.6	90	110				

Sample ID	mb-3	SampType:	mblk	TestCode:	SM2320B: Alkalinity						
Client ID:	PBW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261702	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	ND	20									

Sample ID	ics-3	SampType:	ics	TestCode:	SM2320B: Alkalinity						
Client ID:	LCSW	Batch ID:	R9204	RunNo:	9204						
Prep Date:		Analysis Date:	3/14/2013	SeqNo:	261703	Units:	mg/L CaCO3				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Total Alkalinity (as CaCO3)	79	20	80.00	0	99.0	90	110				

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 17 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303558  
04-Apr-13

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID	MB-6499	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	6499	RunNo:	9230					
Prep Date:	3/15/2013	Analysis Date:	3/18/2013	SeqNo:	262561	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-6499	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	6499	RunNo:	9230					
Prep Date:	3/15/2013	Analysis Date:	3/18/2013	SeqNo:	262562	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Safety Env Solutions	Work Order Number:	1303558
Received by/date:	LM 3/14/13		
Logged By:	Anne Thorne	3/14/2013 9:30:00 AM	Anne Thorne
Completed By:	Anne Thorne	3/14/2013	Anne Thorne
Reviewed By:	mg 03/14/13		

Chain of Custody

- Were seals intact? Yes ☒ No ☐ Not Present ☐
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? FedEx

Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	12
Adjusted?	NO.
Checked by:	[Signature]

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 12, 2013

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 390-7067  
FAX (575) 393-4388

RE: Scripps Pit

OrderNo.: 1306C12

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/28/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 6/27/2013 1:40:00 PM

Lab ID: 1306C12-001

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	ND	2.0		mg/L	20	6/28/2013 3:30:12 PM	R11677
Chloride	9100	500		mg/L	1E	7/2/2013 1:50:33 AM	R11694
Bromide	8.6	2.0		mg/L	20	6/28/2013 3:30:12 PM	R11677
Nitrate+Nitrite as N	ND	4.0		mg/L	20	7/2/2013 4:20:49 PM	R11726
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	6/28/2013 3:30:12 PM	R11677
Sulfate	1300	25		mg/L	50	7/2/2013 1:38:09 AM	R11694
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Barium	0.047	0.0020		mg/L	1	7/3/2013 9:27:46 AM	R11729
Cadmium	ND	0.0020		mg/L	1	7/3/2013 9:27:46 AM	R11729
Calcium	3600	50		mg/L	50	7/5/2013 11:30:50 AM	R11756
Chromium	0.0074	0.0060		mg/L	1	7/3/2013 9:27:46 AM	R11729
Copper	ND	0.0060		mg/L	1	7/3/2013 9:27:46 AM	R11729
Iron	ND	0.020		mg/L	1	7/3/2013 9:27:46 AM	R11729
Lead	ND	0.0050		mg/L	1	7/5/2013 11:25:26 AM	R11756
Magnesium	1200	20		mg/L	20	7/5/2013 11:28:12 AM	R11756
Manganese	ND	0.0020		mg/L	1	7/3/2013 9:27:46 AM	R11729
Potassium	6.6	1.0		mg/L	1	7/3/2013 9:27:46 AM	R11729
Silver	ND	0.25	*	mg/L	50	7/5/2013 11:30:50 AM	R11756
Sodium	1000	20		mg/L	20	7/5/2013 1:10:24 PM	R11756
Zinc	0.019	0.010		mg/L	1	7/3/2013 9:27:46 AM	R11729
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: DBD
Arsenic	0.023	0.010	*	mg/L	10	7/9/2013 1:37:44 PM	R11817
Selenium	0.11	0.010	*	mg/L	10	7/9/2013 1:37:44 PM	R11817
Uranium	0.027	0.010		mg/L	10	7/9/2013 1:37:44 PM	R11817
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: IDC
Mercury	ND	0.00020		mg/L	1	7/2/2013 9:50:48 AM	8189
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: DAM
Benzene	ND	1.0		µg/L	1	7/3/2013 12:32:18 AM	R11708
Toluene	ND	1.0		µg/L	1	7/3/2013 12:32:18 AM	R11708
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 12:32:18 AM	R11708
Naphthalene	ND	2.0		µg/L	1	7/3/2013 12:32:18 AM	R11708
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 12:32:18 AM	R11708
Surr: 1,2-Dichloroethane-d4	90.6	70-130		%REC	1	7/3/2013 12:32:18 AM	R11708
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	1	7/3/2013 12:32:18 AM	R11708
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	7/3/2013 12:32:18 AM	R11708
Surr: Toluene-d8	96.1	70-130		%REC	1	7/3/2013 12:32:18 AM	R11708
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JML
Conductivity	32000	0.050		µmhos/cm	5	7/1/2013 3:19:29 PM	R11695

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 1 of 18

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 6/27/2013 1:40:00 PM

Lab ID: 1306C12-001

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM4500-H+B: PH							Analyst: JML
pH	7.12	1.68	H	pH units	1	6/28/2013 6:58:47 PM	R11669
SM2320B: ALKALINITY							Analyst: JML
Bicarbonate (As CaCO3)	130	20		mg/L CaCO3	1	6/28/2013 6:58:47 PM	R11669
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/28/2013 6:58:47 PM	R11669
Total Alkalinity (as CaCO3)	130	20		mg/L CaCO3	1	6/28/2013 6:58:47 PM	R11669
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	23100	400	*	mg/L	1	7/2/2013 5:11:00 PM	8185

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

## Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 6/27/2013 2:00:00 PM

Lab ID: 1306C12-002

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	ND	2.0		mg/L	20	6/28/2013 3:55:01 PM	R11677
Chloride	5500	500		mg/L	1E	7/2/2013 2:52:36 AM	R11694
Bromide	ND	2.0		mg/L	20	6/28/2013 3:55:01 PM	R11677
Nitrate+Nitrite as N	ND	4.0		mg/L	20	7/2/2013 4:33:14 PM	R11726
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	6/28/2013 3:55:01 PM	R11677
Sulfate	2700	50		mg/L	100	7/2/2013 2:40:12 AM	R11694
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Barium	0.015	0.0020		mg/L	1	7/3/2013 9:33:14 AM	R11729
Cadmium	ND	0.0020		mg/L	1	7/3/2013 9:33:14 AM	R11729
Calcium	1100	20		mg/L	20	7/5/2013 11:36:05 AM	R11756
Chromium	ND	0.0060		mg/L	1	7/3/2013 9:33:14 AM	R11729
Copper	ND	0.0060		mg/L	1	7/3/2013 9:33:14 AM	R11729
Iron	0.050	0.020		mg/L	1	7/3/2013 9:33:14 AM	R11729
Lead	ND	0.0050		mg/L	1	7/5/2013 11:33:16 AM	R11756
Magnesium	550	20		mg/L	20	7/5/2013 11:36:05 AM	R11756
Manganese	0.019	0.0020		mg/L	1	7/3/2013 9:33:14 AM	R11729
Potassium	8.1	1.0		mg/L	1	7/3/2013 9:33:14 AM	R11729
Silver	ND	0.10		mg/L	20	7/5/2013 11:36:05 AM	R11756
Sodium	3500	50		mg/L	50	7/5/2013 1:13:02 PM	R11756
Zinc	ND	0.010		mg/L	1	7/3/2013 9:33:14 AM	R11729
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: DBD
Arsenic	0.012	0.010	*	mg/L	10	7/9/2013 1:40:23 PM	R11817
Selenium	0.055	0.010	*	mg/L	10	7/9/2013 1:40:23 PM	R11817
Uranium	0.015	0.010		mg/L	10	7/9/2013 1:40:23 PM	R11817
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: IDC
Mercury	ND	0.00020		mg/L	1	7/2/2013 9:52:37 AM	8189
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: DAM
Benzene	ND	1.0		µg/L	1	7/3/2013 1:00:24 AM	R11708
Toluene	ND	1.0		µg/L	1	7/3/2013 1:00:24 AM	R11708
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 1:00:24 AM	R11708
Naphthalene	ND	2.0		µg/L	1	7/3/2013 1:00:24 AM	R11708
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 1:00:24 AM	R11708
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	7/3/2013 1:00:24 AM	R11708
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	7/3/2013 1:00:24 AM	R11708
Surr: Dibromofluoromethane	92.5	70-130		%REC	1	7/3/2013 1:00:24 AM	R11708
Surr: Toluene-d8	96.0	70-130		%REC	1	7/3/2013 1:00:24 AM	R11708
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JML
Conductivity	26000	0.050		µmhos/cm	5	7/1/2013 3:24:00 PM	R11695

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 6/27/2013 2:00:00 PM

Lab ID: 1306C12-002

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM4500-H+B: PH							Analyst: JML
pH	7.42	1.68	H	pH units	1	6/28/2013 7:13:38 PM	R11669
SM2320B: ALKALINITY							Analyst: JML
Bicarbonate (As CaCO3)	200	20		mg/L CaCO3	1	6/28/2013 7:13:38 PM	R11669
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/28/2013 7:13:38 PM	R11669
Total Alkalinity (as CaCO3)	200	20		mg/L CaCO3	1	6/28/2013 7:13:38 PM	R11669
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	14500	400	*	mg/L	1	7/2/2013 5:11:00 PM	8185

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

## Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 6/27/2013 2:30:00 PM

Lab ID: 1306C12-003

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	1.3	1.0		mg/L	10	6/28/2013 4:57:04 PM	R11677
Chloride	3200	250		mg/L	500	7/2/2013 6:37:21 PM	R11726
Bromide	2.7	1.0		mg/L	10	6/28/2013 4:57:04 PM	R11677
Nitrate+Nitrite as N	ND	4.0		mg/L	20	7/5/2013 9:50:18 PM	R11778
Phosphorus, Orthophosphate (As P)	ND	5.0		mg/L	10	6/28/2013 4:57:04 PM	R11677
Sulfate	2300	50		mg/L	100	6/28/2013 5:09:28 PM	R11677
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Barium	0.015	0.0020		mg/L	1	7/3/2013 9:38:51 AM	R11729
Cadmium	ND	0.0020		mg/L	1	7/3/2013 9:38:51 AM	R11729
Calcium	680	20		mg/L	20	7/9/2013 4:07:04 PM	R11805
Chromium	ND	0.0060		mg/L	1	7/3/2013 9:38:51 AM	R11729
Copper	ND	0.0060		mg/L	1	7/3/2013 9:38:51 AM	R11729
Iron	0.082	0.020		mg/L	1	7/3/2013 9:38:51 AM	R11729
Lead	ND	0.0050		mg/L	1	7/3/2013 9:38:51 AM	R11729
Magnesium	400	5.0		mg/L	5	7/3/2013 9:41:40 AM	R11729
Manganese	0.029	0.0020		mg/L	1	7/3/2013 9:38:51 AM	R11729
Potassium	7.9	1.0		mg/L	1	7/3/2013 9:38:51 AM	R11729
Silver	ND	0.25		mg/L	50	7/5/2013 11:55:40 AM	R11756
Sodium	2700	50		mg/L	50	7/5/2013 1:15:28 PM	R11756
Zinc	ND	0.010		mg/L	1	7/3/2013 9:38:51 AM	R11729
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: DBD
Arsenic	0.011	0.010	*	mg/L	10	7/9/2013 1:43:02 PM	R11817
Selenium	0.047	0.010		mg/L	10	7/9/2013 1:43:02 PM	R11817
Uranium	0.014	0.010		mg/L	10	7/9/2013 1:43:02 PM	R11817
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: IDC
Mercury	ND	0.00020		mg/L	1	7/2/2013 9:54:29 AM	8189
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: DAM
Benzene	ND	1.0		µg/L	1	7/3/2013 1:28:36 AM	R11708
Toluene	ND	1.0		µg/L	1	7/3/2013 1:28:36 AM	R11708
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 1:28:36 AM	R11708
Naphthalene	ND	2.0		µg/L	1	7/3/2013 1:28:36 AM	R11708
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 1:28:36 AM	R11708
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%REC	1	7/3/2013 1:28:36 AM	R11708
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	1	7/3/2013 1:28:36 AM	R11708
Surr: Dibromofluoromethane	91.1	70-130		%REC	1	7/3/2013 1:28:36 AM	R11708
Surr: Toluene-d8	98.4	70-130		%REC	1	7/3/2013 1:28:36 AM	R11708
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JML
Conductivity	16000	0.025		µmhos/cm	2.5	7/1/2013 3:28:17 PM	R11695

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 6/27/2013 2:30:00 PM

Lab ID: 1306C12-003

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM4500-H+B: PH							Analyst: JML
pH	7.54	1.68	H	pH units	1	6/28/2013 7:26:01 PM	R11669
SM2320B: ALKALINITY							Analyst: JML
Bicarbonate (As CaCO3)	260	20		mg/L CaCO3	1	6/28/2013 7:26:01 PM	R11669
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/28/2013 7:26:01 PM	R11669
Total Alkalinity (as CaCO3)	260	20		mg/L CaCO3	1	6/28/2013 7:26:01 PM	R11669
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	9440	200	*	mg/L	1	7/2/2013 5:11:00 PM	8185

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit



## Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 6/27/2013 2:50:00 PM

Lab ID: 1306C12-004

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	ND	1.0		mg/L	10	6/28/2013 5:21:52 PM	R11677
Chloride	16000	1000		mg/L	2E	7/2/2013 6:49:46 PM	R11726
Bromide	7.3	1.0		mg/L	10	6/28/2013 5:21:52 PM	R11677
Nitrate+Nitrite as N	ND	10		mg/L	50	7/5/2013 10:02:43 PM	R11778
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	6/28/2013 5:21:52 PM	R11677
Sulfate	2300	50		mg/L	100	6/28/2013 5:34:17 PM	R11677
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Barium	0.027	0.0020		mg/L	1	7/3/2013 9:44:18 AM	R11729
Cadmium	ND	0.0020		mg/L	1	7/3/2013 9:44:18 AM	R11729
Calcium	1700	50		mg/L	50	7/9/2013 4:09:39 PM	R11805
Chromium	ND	0.0060		mg/L	1	7/3/2013 9:44:18 AM	R11729
Copper	ND	0.0060		mg/L	1	7/3/2013 9:44:18 AM	R11729
Iron	0.036	0.020		mg/L	1	7/3/2013 9:44:18 AM	R11729
Lead	ND	0.0050		mg/L	1	7/5/2013 11:58:06 AM	R11756
Magnesium	600	50		mg/L	50	7/9/2013 4:09:39 PM	R11805
Manganese	0.21	0.0020	*	mg/L	1	7/3/2013 9:44:18 AM	R11729
Potassium	41	1.0		mg/L	1	7/3/2013 9:44:18 AM	R11729
Silver	ND	0.25	*	mg/L	50	7/5/2013 12:03:49 PM	R11756
Sodium	10000	200		mg/L	200	7/5/2013 1:17:55 PM	R11756
Zinc	0.012	0.010		mg/L	1	7/3/2013 9:44:18 AM	R11729
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: DBD
Arsenic	0.023	0.010	*	mg/L	10	7/9/2013 3:18:16 PM	R11818
Selenium	0.094	0.010	*	mg/L	10	7/9/2013 3:18:16 PM	R11818
Uranium	0.018	0.010		mg/L	10	7/9/2013 3:18:16 PM	R11818
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: IDC
Mercury	0.0015	0.00020		mg/L	1	7/2/2013 9:56:20 AM	8189
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: DAM
Benzene	5.2	1.0		µg/L	1	7/3/2013 1:56:46 AM	R11708
Toluene	ND	1.0		µg/L	1	7/3/2013 1:56:46 AM	R11708
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 1:56:46 AM	R11708
Naphthalene	ND	2.0		µg/L	1	7/3/2013 1:56:46 AM	R11708
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 1:56:46 AM	R11708
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%REC	1	7/3/2013 1:56:46 AM	R11708
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	7/3/2013 1:56:46 AM	R11708
Surr: Dibromofluoromethane	88.0	70-130		%REC	1	7/3/2013 1:56:46 AM	R11708
Surr: Toluene-d8	96.3	70-130		%REC	1	7/3/2013 1:56:46 AM	R11708
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JML
Conductivity	60000	0.10		µmhos/cm	10	7/1/2013 3:32:24 PM	R11695

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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**CLIENT:** Safety & Environmental Solutions  
**Project:** Scripps Pit  
**Lab ID:** 1306C12-004

**Client Sample ID:** MW-4  
**Collection Date:** 6/27/2013 2:50:00 PM  
**Received Date:** 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>SM4500-H+B: PH</b>							Analyst: <b>JML</b>
pH	7.30	1.68	H	pH units	1	6/28/2013 7:39:27 PM	R11669
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JML</b>
Bicarbonate (As CaCO3)	240	20		mg/L CaCO3	1	6/28/2013 7:39:27 PM	R11669
Carbonate (As CaCO3)	ND	2.0		mg/L CaCO3	1	6/28/2013 7:39:27 PM	R11669
Total Alkalinity (as CaCO3)	240	20		mg/L CaCO3	1	6/28/2013 7:39:27 PM	R11669
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	35500	400	*	mg/L	1	7/2/2013 5:11:00 PM	8185

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

## Analytical Report

Lab Order 1306C12

Date Reported: 7/12/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: Trip Blank

Project: Scripps Pit

Collection Date: 6/27/2013 4:30:00 PM

Lab ID: 1306C12-005

Matrix: AQUEOUS

Received Date: 6/28/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>DAM</b>
Benzene	ND	1.0		µg/L	1	7/3/2013 2:24:49 AM	R11708
Toluene	ND	1.0		µg/L	1	7/3/2013 2:24:49 AM	R11708
Ethylbenzene	ND	1.0		µg/L	1	7/3/2013 2:24:49 AM	R11708
Naphthalene	ND	2.0		µg/L	1	7/3/2013 2:24:49 AM	R11708
Xylenes, Total	ND	2.0		µg/L	1	7/3/2013 2:24:49 AM	R11708
Surr: 1,2-Dichloroethane-d4	88.0	70-130		%REC	1	7/3/2013 2:24:49 AM	R11708
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	7/3/2013 2:24:49 AM	R11708
Surr: Dibromofluoromethane	90.1	70-130		%REC	1	7/3/2013 2:24:49 AM	R11708
Surr: Toluene-d8	95.5	70-130		%REC	1	7/3/2013 2:24:49 AM	R11708

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit



## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1 1306C12-01		MW-2 1306C12-02		MW-3 1306C12-03		MW-4 1306C12-04			
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	1000	43.50	3500	152.24	2700	117.44	10000	434.97		
Potassium	6.6	0.17	8.1	0.21	7.9	0.20	41	1.05		
Calcium	3600	179.64	1100	54.89	680	33.93	1700	84.83		
Magnesium	1200	98.77	550	45.27	400	32.92	600	49.38		
<b>Total Cations</b>		322.07		252.60		184.50		570.23		
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	1300	27.07	2700	56.21	2300	47.89	2300	47.89		
Chloride	9100	256.70	5500	155.15	3200	90.27	16000	451.34		
Bicarbonate (CaCO <sub>3</sub> )	130	2.60	200	4.00	260	5.20	240	4.80		
Carbonate (CaCO <sub>3</sub> )										
Phosphate (P)										
Nitrite (N)					-					
Nitrate (N)					1.3	0.07				
Fluoride					2.7	0.03				
Bromide	8.6	0.11					7.3	0.09		
<b>Total Anions</b>		286.47		215.36		143.45		504.11		
Elect. Cond. (µMhos/cm)	32000		26000		16000		60000			
<b>CATION/ANION RATIO</b>		1.12		1.17		1.29		1.13		
% Difference		6		8		13		6		
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>										
TDS (measured)	23100		14500		9440		35500			
TDS (calculated)	16293		13478		9448		30792			
Ratio meas TDS:calc TDS		1.4		1.1		1.0		1.2		
Ratio Meas. TDS:EC		0.72		0.56		0.59		0.59		
Ratio Calc. TDS:EC		0.51		0.52		0.59		0.51		
Ratio of anion sum:EC		0.9		0.8		0.9		0.8		
Ratio of cation sum:EC		1.0		1.0		1.2		1.0		

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, >10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R11729			RunNo: 11729					
Prep Date:		Analysis Date: 7/3/2013			SeqNo: 333269		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Zinc	ND	0.010								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R11729		RunNo: 11729					
Prep Date:			Analysis Date: 7/3/2013		SeqNo: 333270		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Chromium	0.53	0.0060	0.5000	0	105	85	115			
Copper	0.50	0.0060	0.5000	0	100	85	115			
Iron	0.53	0.020	0.5000	0	106	85	115			
Lead	0.51	0.0050	0.5000	0	101	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Manganese	0.51	0.0020	0.5000	0	102	85	115			
Potassium	50	1.0	50.00	0	100	85	115			
Zinc	0.50	0.010	0.5000	0	99.7	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R11756			RunNo: 11756					
Prep Date:		Analysis Date: 7/5/2013			SeqNo: 333974		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW		Batch ID: R11756		RunNo: 11756					
Prep Date:			Analysis Date: 7/5/2013		SeqNo: 333975		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	103	85	115			
Lead	0.53	0.0050	0.5000	0	105	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Silver	0.11	0.0050	0.1000	0	106	85	115			
Sodium	51	1.0	50.00	0	102	85	115			

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID: R11805			RunNo: 11805					
Prep Date:		Analysis Date: 7/9/2013			SeqNo: 335551		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals				
Client ID:	LCSW		Batch ID: R11805			RunNo: 11805				
Prep Date:			Analysis Date: 7/9/2013			SeqNo: 335552		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	48	1.0	50.00	0	96.8	85	115			
Magnesium	49	1.0	50.00	0	98.8	85	115			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- O

RSD is greater than RSDlimit
- R

RPD outside accepted recovery limits
- B

Analyte detected in the associated Method Blank
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- P

Sample pH greater than 2 for VOA and TOC only.
- RL

Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R11817	RunNo:	11817					
Prep Date:		Analysis Date:	7/9/2013	SeqNo:	335887	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.024	0.0010	0.02500	0	96.8	85	115			
Selenium	0.024	0.0010	0.02500	0	96.5	85	115			
Uranium	0.026	0.0010	0.02500	0	103	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R11817	RunNo:	11817					
Prep Date:		Analysis Date:	7/9/2013	SeqNo:	335888	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R11818	RunNo:	11818					
Prep Date:		Analysis Date:	7/9/2013	SeqNo:	335947	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.4	85	115			
Selenium	0.024	0.0010	0.02500	0	96.2	85	115			
Uranium	0.026	0.0010	0.02500	0	103	85	115			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	R11818	RunNo:	11818					
Prep Date:		Analysis Date:	7/9/2013	SeqNo:	335950	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Selenium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:										
* Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank								
E Value above quantitation range	H	Holding times for preparation or analysis exceeded								
J Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit								
O RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.								
R RPD outside accepted recovery limits	RL	Reporting Detection Limit								

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB-8189	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	8189	RunNo:	11697					
Prep Date:	7/1/2013	Analysis Date:	7/2/2013	SeqNo:	332199	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-8189	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	8189	RunNo:	11697					
Prep Date:	7/1/2013	Analysis Date:	7/2/2013	SeqNo:	332200	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	101	80	120			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- O

RSD is greater than RSDlimit
- R

RPD outside accepted recovery limits
- B

Analyte detected in the associated Method Blank
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- P

Sample pH greater than 2 for VOA and TOC only.
- RL

Reporting Detection Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1306C12

12-Jul-13

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R11677</b>		RunNo: <b>11677</b>							
Prep Date:	Analysis Date: <b>6/28/2013</b>		SeqNo: <b>331214</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R11677</b>		RunNo: <b>11677</b>							
Prep Date:	Analysis Date: <b>6/28/2013</b>		SeqNo: <b>331215</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.2	90	110			
Bromide	2.3	0.10	2.500	0	93.7	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.9	90	110			
Sulfate	9.4	0.50	10.00	0	94.3	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R11694</b>		RunNo: <b>11694</b>							
Prep Date:	Analysis Date: <b>7/1/2013</b>		SeqNo: <b>331965</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R11694</b>		RunNo: <b>11694</b>							
Prep Date:	Analysis Date: <b>7/1/2013</b>		SeqNo: <b>331966</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.5	90	110			
Sulfate	9.3	0.50	10.00	0	92.6	90	110			

Sample ID <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R11726</b>		RunNo: <b>11726</b>							
Prep Date:	Analysis Date: <b>7/2/2013</b>		SeqNo: <b>333093</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12

12-Jul-13

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID	LCS-b		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R11726			RunNo: 11726					
Prep Date:			Analysis Date: 7/2/2013			SeqNo: 333095		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	4.6	0.50	5.000	0	91.1	90	110				
Nitrate+Nitrite as N	3.3	0.20	3.500	0	94.2	90	110				

Sample ID	MB		SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW		Batch ID: R11778			RunNo: 11778					
Prep Date:			Analysis Date: 7/5/2013			SeqNo: 334649		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	ND	0.20									

Sample ID	LCS		SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R11778			RunNo: 11778					
Prep Date:			Analysis Date: 7/5/2013			SeqNo: 334650		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrate+Nitrite as N	3.3	0.20	3.500	0	94.0	90	110				

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2 for VOA and TOC only.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12

12-Jul-13

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID	5ml rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	PBW	Batch ID:	R11708	RunNo:	11708					
Prep Date:		Analysis Date:	7/2/2013	SeqNo:	332598	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	2.0								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.5	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List					
Client ID:	LCSW	Batch ID:	R11708	RunNo:	11708					
Prep Date:		Analysis Date:	7/2/2013	SeqNo:	332599	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	21	1.0	20.00	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.0	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2 for VOA and TOC only.  
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID	mb-1	SampType:	mblk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R11669	RunNo:	11669					
Prep Date:		Analysis Date:	6/28/2013	SeqNo:	330937	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	ics-1	SampType:	ics	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R11669	RunNo:	11669					
Prep Date:		Analysis Date:	6/28/2013	SeqNo:	330938	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79	20	80.00	0	99.4	90	110			

Sample ID	mb-2	SampType:	mblk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R11669	RunNo:	11669					
Prep Date:		Analysis Date:	6/28/2013	SeqNo:	330957	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	ics-2	SampType:	ics	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R11669	RunNo:	11669					
Prep Date:		Analysis Date:	6/28/2013	SeqNo:	330958	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79	20	80.00	0	99.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E Value above quantitation range	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
R RPD outside accepted recovery limits	RL Reporting Detection Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306C12  
12-Jul-13

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB-8185	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	8185	RunNo:	11709					
Prep Date:	7/1/2013	Analysis Date:	7/2/2013	SeqNo:	332553	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-8185	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	8185	RunNo:	11709					
Prep Date:	7/1/2013	Analysis Date:	7/2/2013	SeqNo:	332554	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 18 of 18



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1306C12

RcptNo: 1

Received by/date:

mg 06/28/13

Logged By:

Michelle Garcia

6/28/2013 9:50:00 AM

Michelle Garcia

Completed By:

Michelle Garcia

6/28/2013 11:34:39 AM

Michelle Garcia

Reviewed By:

mg/IO 06/28/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? UPS

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: 12  
(2 or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: IO

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 14, 2018

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX (575) 393-4388

RE: Scripps Pit

OrderNo.: 1803G29

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/30/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 23, 2018.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/28/2018 1:20:00 PM

Lab ID: 1803G29-001

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Arsenic	0.033	0.010	*	mg/L	10	4/6/2018 2:08:25 PM	B50376
Copper	ND	0.010		mg/L	10	4/6/2018 2:08:25 PM	B50376
Lead	ND	0.0050		mg/L	10	4/6/2018 2:08:25 PM	B50376
Selenium	0.11	0.010	*	mg/L	10	4/6/2018 2:08:25 PM	B50376
Uranium	0.032	0.0050	*	mg/L	10	4/6/2018 2:08:25 PM	B50376
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	2.0		mg/L	20	4/5/2018 11:30:48 PM	R50371
Chloride	17000	1000		mg/L	2E	4/10/2018 11:10:19 AM	R50447
Bromide	15	2.0		mg/L	20	4/5/2018 11:30:48 PM	R50371
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	4/5/2018 11:30:48 PM	R50371
Sulfate	1900	25		mg/L	50	4/5/2018 11:43:39 PM	R50371
Nitrate+Nitrite as N	ND	20	*	mg/L	100	4/16/2018 2:06:23 PM	R50615
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	64000	250		µmhos/cm	50	4/9/2018 9:01:34 PM	R50434
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	162.7	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:43:01 PM	R50247
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:43:01 PM	R50247
Total Alkalinity (as CaCO <sub>3</sub> )	162.7	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:43:01 PM	R50247
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	36900	2000	*D	mg/L	1	4/9/2018 11:14:00 AM	37424
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>pmf</b>
Aluminum	ND	0.10		mg/L	5	4/2/2018 6:05:33 PM	B50251
Barium	0.040	0.010		mg/L	5	4/2/2018 6:05:33 PM	B50251
Beryllium	ND	0.010	*	mg/L	5	4/2/2018 6:05:33 PM	B50251
Cadmium	ND	0.010		mg/L	5	4/2/2018 6:05:33 PM	B50251
Calcium	3500	100		mg/L	100	4/2/2018 6:07:53 PM	B50251
Chromium	ND	0.030		mg/L	5	4/2/2018 6:05:33 PM	B50251
Cobalt	ND	0.030		mg/L	5	4/2/2018 6:05:33 PM	B50251
Iron	ND	0.10		mg/L	5	4/2/2018 6:05:33 PM	B50251
Magnesium	2600	100		mg/L	100	4/2/2018 6:07:53 PM	B50251
Manganese	ND	0.010		mg/L	5	4/2/2018 6:05:33 PM	B50251
Molybdenum	ND	0.040		mg/L	5	4/2/2018 6:05:33 PM	B50251
Nickel	ND	0.050		mg/L	5	4/2/2018 6:05:33 PM	B50251
Potassium	6.8	5.0		mg/L	5	4/2/2018 6:05:33 PM	B50251
Silver	0.11	0.025	*	mg/L	5	4/2/2018 6:05:33 PM	B50251
Sodium	5500	100		mg/L	100	4/3/2018 5:38:03 PM	A50282
Zinc	ND	0.050		mg/L	5	4/2/2018 6:05:33 PM	B50251

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/28/2018 1:20:00 PM

Lab ID: 1803G29-001

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: rde
Mercury	ND	0.00020		mg/L	1	4/9/2018 4:25:03 PM	37486
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	4/10/2018 1:50:00 PM	SL50445
Toluene	ND	1.0		µg/L	1	4/10/2018 1:50:00 PM	SL50445
Ethylbenzene	ND	1.0		µg/L	1	4/10/2018 1:50:00 PM	SL50445
Naphthalene	ND	2.0		µg/L	1	4/10/2018 1:50:00 PM	SL50445
Xylenes, Total	ND	1.5		µg/L	1	4/10/2018 1:50:00 PM	SL50445
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	4/10/2018 1:50:00 PM	SL50445
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	4/10/2018 1:50:00 PM	SL50445
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/10/2018 1:50:00 PM	SL50445
Surr: Toluene-d8	97.6	70-130		%Rec	1	4/10/2018 1:50:00 PM	SL50445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/28/2018 2:15:00 PM

Lab ID: 1803G29-002

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Arsenic	0.012	0.0050	*	mg/L	5	4/6/2018 2:10:42 PM	B50376
Copper	ND	0.0050		mg/L	5	4/6/2018 2:10:42 PM	B50376
Lead	ND	0.0050		mg/L	10	4/6/2018 2:17:33 PM	B50376
Selenium	0.014	0.0050		mg/L	5	4/6/2018 2:10:42 PM	B50376
Uranium	0.011	0.0050		mg/L	10	4/6/2018 2:17:33 PM	B50376
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	2.0		mg/L	20	4/6/2018 12:22:15 AM	R50371
Chloride	9600	500		mg/L	1E	4/10/2018 11:23:09 AM	R50447
Bromide	4.3	2.0		mg/L	20	4/6/2018 12:22:15 AM	R50371
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	4/6/2018 12:22:15 AM	R50371
Sulfate	2800	50		mg/L	100	4/6/2018 12:35:08 AM	R50371
Nitrate+Nitrite as N	ND	10		mg/L	50	4/16/2018 2:19:14 PM	R50615
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	31000	50		µmhos/cm	10	4/9/2018 9:05:48 PM	R50434
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	243.3	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:54:11 PM	R50247
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:54:11 PM	R50247
Total Alkalinity (as CaCO <sub>3</sub> )	243.3	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 9:54:11 PM	R50247
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	19800	2000	*D	mg/L	1	4/9/2018 11:14:00 AM	37424
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>pmf</b>
Aluminum	ND	0.10		mg/L	5	4/2/2018 6:10:04 PM	B50251
Barium	0.020	0.0020		mg/L	1	3/30/2018 3:14:10 PM	B50228
Beryllium	ND	0.010		mg/L	5	4/2/2018 6:10:04 PM	B50251
Cadmium	ND	0.010		mg/L	5	4/2/2018 6:10:04 PM	B50251
Calcium	860	50		mg/L	50	4/2/2018 6:12:13 PM	B50251
Chromium	ND	0.030		mg/L	5	4/2/2018 6:10:04 PM	B50251
Cobalt	ND	0.030		mg/L	5	4/2/2018 6:10:04 PM	B50251
Iron	ND	0.10		mg/L	5	4/2/2018 6:10:04 PM	B50251
Magnesium	460	5.0		mg/L	5	4/2/2018 6:10:04 PM	B50251
Manganese	0.071	0.0020	*	mg/L	1	3/30/2018 3:14:10 PM	B50228
Molybdenum	ND	0.040		mg/L	5	4/2/2018 6:10:04 PM	B50251
Nickel	ND	0.050		mg/L	5	4/2/2018 6:10:04 PM	B50251
Potassium	15	5.0		mg/L	5	4/2/2018 6:10:04 PM	B50251
Silver	0.040	0.0050		mg/L	1	3/30/2018 3:14:10 PM	B50228
Sodium	5400	100		mg/L	100	4/3/2018 5:40:14 PM	A50282
Zinc	ND	0.050		mg/L	5	4/2/2018 6:10:04 PM	B50251

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/28/2018 2:15:00 PM

Lab ID: 1803G29-002

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>rde</b>
Mercury	ND	0.00020		mg/L	1	4/9/2018 4:27:18 PM	37486
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	4/10/2018 2:13:00 PM	SL50445
Toluene	ND	1.0		µg/L	1	4/10/2018 2:13:00 PM	SL50445
Ethylbenzene	ND	1.0		µg/L	1	4/10/2018 2:13:00 PM	SL50445
Naphthalene	ND	2.0		µg/L	1	4/10/2018 2:13:00 PM	SL50445
Xylenes, Total	ND	1.5		µg/L	1	4/10/2018 2:13:00 PM	SL50445
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%Rec	1	4/10/2018 2:13:00 PM	SL50445
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/10/2018 2:13:00 PM	SL50445
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/10/2018 2:13:00 PM	SL50445
Surr: Toluene-d8	97.6	70-130		%Rec	1	4/10/2018 2:13:00 PM	SL50445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/28/2018 3:00:00 PM

Lab ID: 1803G29-003

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Arsenic	0.0058	0.0050		mg/L	5	4/6/2018 2:19:50 PM	B50376
Copper	ND	0.0050		mg/L	5	4/6/2018 2:19:50 PM	B50376
Lead	ND	0.0025		mg/L	5	4/6/2018 2:19:50 PM	B50376
Selenium	ND	0.0050		mg/L	5	4/6/2018 2:19:50 PM	B50376
Uranium	0.0052	0.0025		mg/L	5	4/6/2018 2:19:50 PM	B50376
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	1.0		mg/L	10	4/6/2018 12:47:59 AM	R50371
Chloride	3000	100		mg/L	200	4/10/2018 11:36:00 AM	R50447
Bromide	2.3	1.0		mg/L	10	4/6/2018 12:47:59 AM	R50371
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	4/6/2018 12:47:59 AM	R50371
Sulfate	2200	50		mg/L	100	4/6/2018 1:00:51 AM	R50371
Nitrate+Nitrite as N	ND	1.0		mg/L	5	4/6/2018 2:05:09 AM	R50371
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	14000	25		µmhos/cm	5	4/9/2018 9:10:07 PM	R50434
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	265.9	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:07:17 PM	R50247
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:07:17 PM	R50247
Total Alkalinity (as CaCO <sub>3</sub> )	265.9	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:07:17 PM	R50247
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	8840	200	*D	mg/L	1	4/9/2018 11:14:00 AM	37424
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>pmf</b>
Aluminum	ND	0.10		mg/L	5	4/2/2018 6:14:24 PM	B50251
Barium	0.019	0.0020		mg/L	1	3/30/2018 3:16:50 PM	B50228
Beryllium	ND	0.010		mg/L	5	4/2/2018 6:14:24 PM	B50251
Cadmium	ND	0.010		mg/L	5	4/2/2018 6:14:24 PM	B50251
Calcium	580	10		mg/L	10	4/2/2018 6:16:24 PM	B50251
Chromium	ND	0.030		mg/L	5	4/2/2018 6:14:24 PM	B50251
Cobalt	ND	0.030		mg/L	5	4/2/2018 6:14:24 PM	B50251
Iron	0.38	0.10	*	mg/L	5	4/2/2018 6:14:24 PM	B50251
Magnesium	380	5.0		mg/L	5	4/2/2018 6:14:24 PM	B50251
Manganese	0.36	0.0020	*	mg/L	1	3/30/2018 3:16:50 PM	B50228
Molybdenum	ND	0.040		mg/L	5	4/2/2018 6:14:24 PM	B50251
Nickel	ND	0.050		mg/L	5	4/2/2018 6:14:24 PM	B50251
Potassium	6.6	5.0		mg/L	5	4/2/2018 6:14:24 PM	B50251
Silver	0.027	0.0050		mg/L	1	3/30/2018 3:16:50 PM	B50228
Sodium	1900	50		mg/L	50	4/3/2018 5:42:18 PM	A50282
Zinc	ND	0.050		mg/L	5	4/2/2018 6:14:24 PM	B50251

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/28/2018 3:00:00 PM

Lab ID: 1803G29-003

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>rde</b>
Mercury	ND	0.00020		mg/L	1	4/9/2018 4:34:13 PM	37486
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	1.3	1.0		µg/L	1	4/10/2018 2:37:00 PM	SL50445
Toluene	ND	1.0		µg/L	1	4/10/2018 2:37:00 PM	SL50445
Ethylbenzene	ND	1.0		µg/L	1	4/10/2018 2:37:00 PM	SL50445
Naphthalene	ND	2.0		µg/L	1	4/10/2018 2:37:00 PM	SL50445
Xylenes, Total	ND	1.5		µg/L	1	4/10/2018 2:37:00 PM	SL50445
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	4/10/2018 2:37:00 PM	SL50445
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/10/2018 2:37:00 PM	SL50445
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/10/2018 2:37:00 PM	SL50445
Surr: Toluene-d8	99.9	70-130		%Rec	1	4/10/2018 2:37:00 PM	SL50445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/28/2018 3:35:00 PM

Lab ID: 1803G29-004

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Arsenic	0.019	0.010	*	mg/L	10	4/6/2018 2:22:07 PM	B50376
Copper	ND	0.010		mg/L	10	4/6/2018 2:22:07 PM	B50376
Lead	ND	0.0050		mg/L	10	4/6/2018 2:22:07 PM	B50376
Selenium	ND	0.010		mg/L	10	4/6/2018 2:22:07 PM	B50376
Uranium	0.017	0.0050		mg/L	10	4/6/2018 2:22:07 PM	B50376
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	1.0		mg/L	10	4/6/2018 1:13:42 AM	R50371
Chloride	16000	1000		mg/L	2E	4/10/2018 11:48:52 AM	R50447
Bromide	5.7	1.0		mg/L	10	4/6/2018 1:13:42 AM	R50371
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	4/6/2018 1:13:42 AM	R50371
Sulfate	2500	50		mg/L	100	4/6/2018 1:26:35 AM	R50371
Nitrate+Nitrite as N	ND	10		mg/L	50	4/6/2018 6:07:09 PM	R50403
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	64000	250		µmhos/cm	50	4/9/2018 9:14:28 PM	R50434
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	289.0	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:20:35 PM	R50247
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:20:35 PM	R50247
Total Alkalinity (as CaCO <sub>3</sub> )	289.0	20.00		mg/L CaCO <sub>3</sub>	1	4/2/2018 10:20:35 PM	R50247
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	33600	2000	*D	mg/L	1	4/9/2018 11:14:00 AM	37424
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>pmf</b>
Aluminum	ND	0.10		mg/L	5	4/2/2018 6:28:39 PM	B50251
Barium	0.020	0.010		mg/L	5	4/2/2018 6:28:39 PM	B50251
Beryllium	ND	0.010		mg/L	5	4/2/2018 6:28:39 PM	B50251
Cadmium	ND	0.010		mg/L	5	4/2/2018 6:28:39 PM	B50251
Calcium	1500	50		mg/L	50	4/2/2018 6:32:52 PM	B50251
Chromium	ND	0.030		mg/L	5	4/2/2018 6:28:39 PM	B50251
Cobalt	ND	0.030		mg/L	5	4/2/2018 6:28:39 PM	B50251
Iron	ND	0.10		mg/L	5	4/2/2018 6:28:39 PM	B50251
Magnesium	620	10		mg/L	10	4/2/2018 6:30:47 PM	B50251
Manganese	1.0	0.010	*	mg/L	5	4/2/2018 6:28:39 PM	B50251
Molybdenum	ND	0.040		mg/L	5	4/2/2018 6:28:39 PM	B50251
Nickel	ND	0.050		mg/L	5	4/2/2018 6:28:39 PM	B50251
Potassium	38	5.0		mg/L	5	4/2/2018 6:28:39 PM	B50251
Silver	0.056	0.025		mg/L	5	4/2/2018 6:28:39 PM	B50251
Sodium	11000	200		mg/L	200	4/3/2018 5:44:21 PM	A50282
Zinc	ND	0.050		mg/L	5	4/2/2018 6:28:39 PM	B50251

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## Analytical Report

Lab Order 1803G29

Date Reported: 5/14/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/28/2018 3:35:00 PM

Lab ID: 1803G29-004

Matrix: AQUEOUS

Received Date: 3/30/2018 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: rde
Mercury	0.00042	0.00020		mg/L	1	4/9/2018 4:36:30 PM	37486
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	14	1.0		µg/L	1	4/10/2018 3:01:00 PM	SL50445
Toluene	ND	1.0		µg/L	1	4/10/2018 3:01:00 PM	SL50445
Ethylbenzene	ND	1.0		µg/L	1	4/10/2018 3:01:00 PM	SL50445
Naphthalene	ND	2.0		µg/L	1	4/10/2018 3:01:00 PM	SL50445
Xylenes, Total	ND	1.5		µg/L	1	4/10/2018 3:01:00 PM	SL50445
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	4/10/2018 3:01:00 PM	SL50445
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	4/10/2018 3:01:00 PM	SL50445
Surr: Dibromofluoromethane	100	70-130		%Rec	1	4/10/2018 3:01:00 PM	SL50445
Surr: Toluene-d8	100	70-130		%Rec	1	4/10/2018 3:01:00 PM	SL50445

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1 1803G29-001		MW-2 1803G29-002		MW-3 1803G29-003		MW-4 1803G29-004	
	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
<b>CATIONS</b>								
Sodium	5500	239.23	5400	234.88	1900	82.64	11000	478.47
Potassium	6.8	0.17	15	0.38	6.8	0.17	38	0.97
Calcium	3500	174.65	350	42.91	580	28.94	1500	74.85
Magnesium	2600	213.99	460	37.86	380	31.28	620	51.03
<b>Total Cations</b>		628.05		316.04		143.03		605.32
<b>ANIONS</b>								
Sulfate	1900	39.56	2800	58.30	2200	45.80	2500	52.05
Chloride	17000	479.55	9600	270.80	3000	84.63	15000	451.34
Bicarbonate (CaCO <sub>3</sub> )	162.7	3.25	243.3	4.86	265.9	5.31	289.0	5.78
Carbonate (CaCO <sub>3</sub> )								
Phosphate (P)								
Nitrite (N)								
Nitrate (N)								
Fluoride								
Bromide	15	0.19	4.3	0.05	2.3	0.03	5.7	0.07
<b>Total Anions</b>		522.55		334.02		135.77		509.24
Elect. Cond. (µMhos/cm)	64000		31000		14000		64000	
<b>CATION/ANION RATIO</b>		1.20		0.95		1.05		1.19
% Difference		9		3		3		9
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>								
TDS (measured)	36900		19800		8840		33600	
TDS (calculated)	30619		19285		8228		31837	
Ratio meas TDS:calc TDS		1.2		1.0		1.1		1.1
Ratio Meas. TDS:EC		0.58		0.64		0.63		0.53
Ratio Calc. TDS:EC		0.48		0.62		0.59		0.50
Ratio of anion sum:EC		0.8		1.1		1.0		0.8
Ratio of cation sum:EC		1.0		1.0		1.0		0.9

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9.

Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2% &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS - 1.0-1.2. Ratio Calculated TDS:EC - 0.55-0.7. Ratio Measured TDS:EC-0.55-0.7. Ratio of anion sum:EC - 0.9-1.1

Ratio of cation sum:EC - 0.9-1.1

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1803G29

14-May-18

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>MB-B</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>B50228</b>		RunNo: <b>50228</b>							
Prep Date:	Analysis Date: <b>3/30/2018</b>		SeqNo: <b>1627099</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Manganese	ND	0.0020								
Silver	ND	0.0050								

Sample ID <b>LCS-B</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>B50228</b>		RunNo: <b>50228</b>							
Prep Date:	Analysis Date: <b>3/30/2018</b>		SeqNo: <b>1627101</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	101	85	115			
Manganese	0.51	0.0020	0.5000	0	101	85	115			
Silver	0.097	0.0050	0.1000	0	97.0	85	115			

Sample ID <b>MB-B</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>B50251</b>		RunNo: <b>50251</b>							
Prep Date:	Analysis Date: <b>4/2/2018</b>		SeqNo: <b>1628045</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID <b>LCS-B</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>B50251</b>		RunNo: <b>50251</b>							
Prep Date:	Analysis Date: <b>4/2/2018</b>		SeqNo: <b>1628047</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.52	0.020	0.5000	0	104	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29  
14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	LCS-B	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	B50251	RunNo:	50251					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628047	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.51	0.0020	0.5000	0	101	85	115			
Beryllium	0.52	0.0020	0.5000	0	104	85	115			
Cadmium	0.51	0.0020	0.5000	0	103	85	115			
Calcium	48	1.0	50.00	0	96.4	85	115			
Chromium	0.51	0.0060	0.5000	0	102	85	115			
Cobalt	0.49	0.0060	0.5000	0	98.0	85	115			
Iron	0.50	0.020	0.5000	0	99.0	85	115			
Magnesium	49	1.0	50.00	0	97.4	85	115			
Manganese	0.50	0.0020	0.5000	0	101	85	115			
Molybdenum	0.51	0.0080	0.5000	0	103	85	115			
Nickel	0.50	0.010	0.5000	0	99.8	85	115			
Potassium	48	1.0	50.00	0	95.4	85	115			
Silver	0.097	0.0050	0.1000	0	96.6	85	115			
Zinc	0.51	0.010	0.5000	0	102	85	115			

Sample ID	MB-A	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	A50282	RunNo:	50282					
Prep Date:		Analysis Date:	4/3/2018	SeqNo:	1629556	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID	LCS-A	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	A50282	RunNo:	50282					
Prep Date:		Analysis Date:	4/3/2018	SeqNo:	1629558	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	49	1.0	50.00	0	98.9	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29  
14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB	SampType:	MBLK	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	PBW	Batch ID:	B50376	RunNo:	50376					
Prep Date:		Analysis Date:	4/6/2018	SeqNo:	1632626	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Uranium	ND	0.00050								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA 200.8: Dissolved Metals					
Client ID:	LCSW	Batch ID:	B50376	RunNo:	50376					
Prep Date:		Analysis Date:	4/6/2018	SeqNo:	1632628	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.025	0.0010	0.02500	0	98.9	85	115			
Copper	0.025	0.0010	0.02500	0	98.8	85	115			
Lead	0.012	0.00050	0.01250	0	99.5	85	115			
Selenium	0.025	0.0010	0.02500	0	98.4	85	115			
Uranium	0.012	0.00050	0.01250	0	97.8	85	115			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29  
14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB-37486	SampType:	MBLK	TestCode:	EPA Method 245.1: Mercury					
Client ID:	PBW	Batch ID:	37486	RunNo:	50428					
Prep Date:	4/9/2018	Analysis Date:	4/9/2018	SeqNo:	1634995	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	LCS-37486	SampType:	LCS	TestCode:	EPA Method 245.1: Mercury					
Client ID:	LCSW	Batch ID:	37486	RunNo:	50428					
Prep Date:	4/9/2018	Analysis Date:	4/9/2018	SeqNo:	1634996	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1803G29

14-May-18

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID <b>MB</b>	SampType: <b>mblk</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R50371</b>			RunNo: <b>50371</b>						
Prep Date:	Analysis Date: <b>4/5/2018</b>			SeqNo: <b>1632365</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID <b>LCS-b</b>	SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R50371</b>			RunNo: <b>50371</b>						
Prep Date:	Analysis Date: <b>4/5/2018</b>			SeqNo: <b>1632371</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.53	0.10	0.5000	0	106	90	110			
Bromide	2.4	0.10	2.500	0	95.7	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.3	90	110			
Sulfate	9.2	0.50	10.00	0	92.3	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.2	90	110			

Sample ID <b>MB</b>	SampType: <b>mblk</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R50403</b>			RunNo: <b>50403</b>						
Prep Date:	Analysis Date: <b>4/6/2018</b>			SeqNo: <b>1633817</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID <b>LCS</b>	SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R50403</b>			RunNo: <b>50403</b>						
Prep Date:	Analysis Date: <b>4/6/2018</b>			SeqNo: <b>1633818</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	96.0	90	110			

Sample ID <b>MB</b>	SampType: <b>mblk</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R50447</b>			RunNo: <b>50447</b>						
Prep Date:	Analysis Date: <b>4/10/2018</b>			SeqNo: <b>1636385</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29  
14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	LCS	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R50447	RunNo:	50447					
Prep Date:		Analysis Date:	4/10/2018	SeqNo:	1636386	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.8	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R50615	RunNo:	50615					
Prep Date:		Analysis Date:	4/16/2018	SeqNo:	1641959	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R50615	RunNo:	50615					
Prep Date:		Analysis Date:	4/16/2018	SeqNo:	1641960	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.3	0.20	3.500	0	94.3	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29

14-May-18

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260: Volatiles Short List						
Client ID:	LCSW	Batch ID:	SL50445	RunNo:	50445						
Prep Date:		Analysis Date:	4/10/2018	SeqNo:	1635578	Units:	µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	93.2	70	130				
Toluene	20	1.0	20.00	0	98.5	70	130				
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130				
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130				
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130				
Surr: Toluene-d8	10		10.00		101	70	130				

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260: Volatiles Short List						
Client ID:	PBW	Batch ID:	SL50445	RunNo:	50445						
Prep Date:		Analysis Date:	4/10/2018	SeqNo:	1635579	Units:	µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Naphthalene	ND	2.0									
Xylenes, Total	ND	1.5									
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130				
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130				
Surr: Dibromofluoromethane	9.9		10.00		98.5	70	130				
Surr: Toluene-d8	9.5		10.00		95.2	70	130				

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29

14-May-18

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID	lcs-1 ~20uS eC		SampType: LCS		TestCode: SM2510B: Specific Conductance					
Client ID:	LCSW		Batch ID: R50434		RunNo: 50434					
Prep Date:			Analysis Date: 4/9/2018		SeqNo: 1635167		Units: µmhos/cm			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	23	5.0	19.98	0	115	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29

14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	mb-1 alk	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R50247	RunNo:	50247					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628467	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-1 alk	SampType:	LCS	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R50247	RunNo:	50247					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628468	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.72	20.00	80.00	0	99.7	90	110			

Sample ID	lcsd-1 alk	SampType:	LCSD	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSS02	Batch ID:	R50247	RunNo:	50247					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628469	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.80	20.00	80.00	0	99.7	90	110	0.100	20	

Sample ID	mb-2 alk	SampType:	MBLK	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R50247	RunNo:	50247					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628492	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID	lcs-2 alk	SampType:	LCS	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R50247	RunNo:	50247					
Prep Date:		Analysis Date:	4/2/2018	SeqNo:	1628493	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.88	20.00	80.00	0	99.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1803G29  
14-May-18

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID	MB-37424	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	37424	RunNo:	50397					
Prep Date:	4/4/2018	Analysis Date:	4/9/2018	SeqNo:	1633633	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-37424	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	37424	RunNo:	50397					
Prep Date:	4/4/2018	Analysis Date:	4/9/2018	SeqNo:	1633634	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	103	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1803G29

RcptNo: 1

Received By: Erin Melendrez 3/30/2018 8:55:00 AM

Completed By: Erin Melendrez 3/30/2018 11:01:36 AM

Reviewed By: DDS

3/30/18

LB: MW 3/30/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels? Yes ☒ No ☐  
(Note discrepancies on chain of custody)  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met? Yes ☒ No ☐  
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: 12  
(or >12 unless noted)  
Adjusted? NO  
Checked by: MW

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 27, 2021

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX

RE: Scripps Pit

OrderNo.: 1903607

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/13/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 29, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/11/2019 10:15:00 AM

Lab ID: 1903607-001

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Antimony	ND	0.020		mg/L	20	3/22/2019 2:07:33 PM	A58572
Arsenic	ND	0.010		mg/L	10	3/22/2019 11:37:55 AM	A58572
Lead	ND	0.0050		mg/L	10	3/22/2019 11:37:55 AM	A58572
Selenium	0.088	0.010	*	mg/L	10	3/22/2019 11:37:55 AM	A58572
Thallium	ND	0.0050		mg/L	10	3/22/2019 11:37:55 AM	A58572
Uranium	0.041	0.0050	*	mg/L	10	3/22/2019 11:37:55 AM	A58572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	2.0		mg/L	20	3/15/2019 1:47:05 AM	A58394
Chloride	18000	1000		mg/L	2E+	3/15/2019 7:25:28 PM	R58421
Bromide	12	2.0		mg/L	20	3/15/2019 1:47:05 AM	A58394
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/15/2019 1:47:05 AM	A58394
Sulfate	3000	1000		mg/L	2E+	3/15/2019 7:25:28 PM	R58421
Nitrate+Nitrite as N	27	20	*	mg/L	100	3/15/2019 8:42:35 PM	R58421
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	56000	50		µmhos/c	10	3/19/2019 12:28:29 PM	R58511
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	236.4	20.00		mg/L Ca	1	3/14/2019 1:54:40 PM	R58386
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	3/14/2019 1:54:40 PM	R58386
Total Alkalinity (as CaCO <sub>3</sub> )	236.4	20.00		mg/L Ca	1	3/14/2019 1:54:40 PM	R58386
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>CJS</b>
Total Dissolved Solids	32600	20.0	*	mg/L	1	3/21/2019 9:33:00 AM	43745
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.11		H	pH units	1	3/14/2019 1:54:40 PM	R58386
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Aluminum	ND	0.020		mg/L	1	3/14/2019 5:19:14 PM	C58381
Barium	0.024	0.0020		mg/L	1	3/14/2019 5:19:14 PM	C58381
Beryllium	ND	0.0020		mg/L	1	3/14/2019 5:19:14 PM	C58381
Boron	0.17	0.040		mg/L	1	3/14/2019 5:19:14 PM	C58381
Cadmium	ND	0.0020		mg/L	1	3/14/2019 5:19:14 PM	C58381
Calcium	1900	100		mg/L	100	3/20/2019 5:28:10 PM	B58535
Chromium	ND	0.0060		mg/L	1	3/14/2019 5:19:14 PM	C58381
Cobalt	ND	0.0060		mg/L	1	3/14/2019 5:19:14 PM	C58381
Copper	0.0077	0.0060		mg/L	1	3/14/2019 5:19:14 PM	C58381
Iron	0.035	0.020		mg/L	1	3/14/2019 5:19:14 PM	C58381
Magnesium	2800	100		mg/L	100	3/20/2019 5:28:10 PM	B58535
Manganese	ND	0.0020		mg/L	1	3/14/2019 5:19:14 PM	C58381

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/11/2019 10:15:00 AM

Lab ID: 1903607-001

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Molybdenum	ND	0.0080		mg/L	1	3/14/2019 5:19:14 PM	C58381
Nickel	ND	0.010		mg/L	1	3/14/2019 5:19:14 PM	C58381
Potassium	6.3	1.0		mg/L	1	3/14/2019 5:19:14 PM	C58381
Silver	0.028	0.0050		mg/L	1	3/14/2019 5:19:14 PM	C58381
Sodium	6400	100		mg/L	100	3/20/2019 5:28:10 PM	B58535
Zinc	0.017	0.010		mg/L	1	3/14/2019 5:19:14 PM	C58381
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.00020		mg/L	1	3/15/2019 11:22:41 AM	43702
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
Toluene	ND	1.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
Ethylbenzene	ND	1.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
Naphthalene	ND	2.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
1-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
2-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 4:57:00 PM	SL58401
Xylenes, Total	ND	1.5		µg/L	1	3/15/2019 4:57:00 PM	SL58401
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	3/15/2019 4:57:00 PM	SL58401
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	3/15/2019 4:57:00 PM	SL58401
Surr: Dibromofluoromethane	92.6	70-130		%Rec	1	3/15/2019 4:57:00 PM	SL58401
Surr: Toluene-d8	94.4	70-130		%Rec	1	3/15/2019 4:57:00 PM	SL58401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/11/2019 11:00:00 AM

Lab ID: 1903607-002

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: pmf
Antimony	ND	0.0050		mg/L	5	3/20/2019 4:51:19 PM	D58522
Arsenic	ND	0.0050		mg/L	5	3/20/2019 4:51:19 PM	D58522
Lead	ND	0.0025		mg/L	5	3/20/2019 4:51:19 PM	D58522
Selenium	0.016	0.0050		mg/L	5	3/20/2019 4:51:19 PM	D58522
Thallium	ND	0.0025		mg/L	5	3/20/2019 4:51:19 PM	D58522
Uranium	0.011	0.0025		mg/L	5	3/22/2019 11:40:33 AM	A58572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Fluoride	ND	2.0		mg/L	20	3/15/2019 2:11:54 AM	A58394
Chloride	8100	500		mg/L	1E+	3/15/2019 7:38:18 PM	R58421
Bromide	3.3	2.0		mg/L	20	3/15/2019 2:11:54 AM	A58394
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/15/2019 2:11:54 AM	A58394
Sulfate	2300	500		mg/L	1E+	3/15/2019 7:38:18 PM	R58421
Nitrate+Nitrite as N	ND	10		mg/L	50	3/15/2019 8:56:06 PM	R58421
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	29000	25		µmhos/c	5	3/19/2019 12:31:27 PM	R58511
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO3)	223.0	20.00		mg/L Ca	1	3/14/2019 2:09:13 PM	R58386
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/14/2019 2:09:13 PM	R58386
Total Alkalinity (as CaCO3)	223.0	20.00		mg/L Ca	1	3/14/2019 2:09:13 PM	R58386
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: CJS
Total Dissolved Solids	16900	20.0	*	mg/L	1	3/21/2019 9:33:00 AM	43745
<b>SM4500-H+B / 9040C: PH</b>							Analyst: JRR
pH	7.18		H	pH units	1	3/14/2019 2:09:13 PM	R58386
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: bcv
Aluminum	ND	0.020		mg/L	1	3/14/2019 5:23:48 PM	C58381
Barium	0.015	0.0020		mg/L	1	3/14/2019 5:23:48 PM	C58381
Beryllium	ND	0.0020		mg/L	1	3/14/2019 5:23:48 PM	C58381
Cadmium	ND	0.0020		mg/L	1	3/14/2019 5:23:48 PM	C58381
Calcium	840	20		mg/L	20	3/20/2019 5:30:23 PM	B58535
Chromium	ND	0.0060		mg/L	1	3/14/2019 5:23:48 PM	C58381
Cobalt	ND	0.0060		mg/L	1	3/14/2019 5:23:48 PM	C58381
Copper	ND	0.0060		mg/L	1	3/14/2019 5:23:48 PM	C58381
Iron	0.047	0.020		mg/L	1	3/14/2019 5:23:48 PM	C58381
Magnesium	450	5.0		mg/L	5	3/14/2019 5:26:02 PM	C58381
Manganese	0.13	0.0020	*	mg/L	1	3/14/2019 5:23:48 PM	C58381
Molybdenum	ND	0.0080		mg/L	1	3/14/2019 5:23:48 PM	C58381

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 3 of 17

## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/11/2019 11:00:00 AM

Lab ID: 1903607-002

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Nickel	ND	0.010		mg/L	1	3/14/2019 5:23:48 PM	C58381
Potassium	13	1.0		mg/L	1	3/14/2019 5:23:48 PM	C58381
Silver	0.014	0.0050		mg/L	1	3/14/2019 5:23:48 PM	C58381
Sodium	4600	100		mg/L	100	3/20/2019 5:32:43 PM	B58535
Zinc	0.043	0.010		mg/L	1	3/14/2019 5:23:48 PM	C58381
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.00020		mg/L	1	3/15/2019 11:24:53 AM	43702
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
Toluene	ND	1.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
Ethylbenzene	ND	1.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
Naphthalene	ND	2.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
1-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
2-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:09:00 PM	SL58401
Xylenes, Total	ND	1.5		µg/L	1	3/15/2019 6:09:00 PM	SL58401
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	3/15/2019 6:09:00 PM	SL58401
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/15/2019 6:09:00 PM	SL58401
Surr: Dibromofluoromethane	92.2	70-130		%Rec	1	3/15/2019 6:09:00 PM	SL58401
Surr: Toluene-d8	94.4	70-130		%Rec	1	3/15/2019 6:09:00 PM	SL58401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 17



## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/11/2019 11:20:00 AM

Lab ID: 1903607-003

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>DBK</b>
Antimony	ND	0.020		mg/L	20	3/22/2019 2:10:09 PM	A58572
Arsenic	ND	0.010		mg/L	10	3/22/2019 11:45:47 AM	A58572
Lead	ND	0.0050		mg/L	10	3/22/2019 11:45:47 AM	A58572
Selenium	ND	0.010		mg/L	10	3/22/2019 11:45:47 AM	A58572
Thallium	ND	0.0050		mg/L	10	3/22/2019 11:45:47 AM	A58572
Uranium	0.014	0.0050		mg/L	10	3/22/2019 11:45:47 AM	A58572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Fluoride	ND	2.0		mg/L	20	3/15/2019 2:36:43 AM	A58394
Chloride	12000	500		mg/L	1E+	3/15/2019 7:51:10 PM	R58421
Bromide	4.4	2.0		mg/L	20	3/15/2019 2:36:43 AM	A58394
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/15/2019 2:36:43 AM	A58394
Sulfate	2500	500		mg/L	1E+	3/15/2019 7:51:10 PM	R58421
Nitrate+Nitrite as N	ND	10		mg/L	50	3/15/2019 9:08:27 PM	R58421
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	38000	25		µmhos/c	5	3/19/2019 12:34:28 PM	R58511
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	298.2	20.00		mg/L Ca	1	3/14/2019 2:22:30 PM	R58386
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	3/14/2019 2:22:30 PM	R58386
Total Alkalinity (as CaCO <sub>3</sub> )	298.2	20.00		mg/L Ca	1	3/14/2019 2:22:30 PM	R58386
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>CJS</b>
Total Dissolved Solids	22900	20.0	*	mg/L	1	3/21/2019 9:33:00 AM	43745
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.20		H	pH units	1	3/14/2019 2:22:30 PM	R58386
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Aluminum	ND	0.020		mg/L	1	3/14/2019 5:34:30 PM	C58381
Barium	0.016	0.0020		mg/L	1	3/14/2019 5:34:30 PM	C58381
Beryllium	ND	0.0020		mg/L	1	3/14/2019 5:34:30 PM	C58381
Cadmium	ND	0.0020		mg/L	1	3/14/2019 5:34:30 PM	C58381
Calcium	790	20		mg/L	20	3/20/2019 5:41:52 PM	B58535
Chromium	ND	0.0060		mg/L	1	3/14/2019 5:34:30 PM	C58381
Cobalt	ND	0.0060		mg/L	1	3/14/2019 5:34:30 PM	C58381
Copper	ND	0.0060		mg/L	1	3/14/2019 5:34:30 PM	C58381
Iron	0.036	0.020		mg/L	1	3/14/2019 5:34:30 PM	C58381
Magnesium	320	5.0		mg/L	5	3/14/2019 5:36:44 PM	C58381
Manganese	0.76	0.0020	*	mg/L	1	3/14/2019 5:34:30 PM	C58381
Molybdenum	ND	0.0080		mg/L	1	3/14/2019 5:34:30 PM	C58381

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/11/2019 11:20:00 AM

Lab ID: 1903607-003

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Nickel	ND	0.010		mg/L	1	3/14/2019 5:34:30 PM	C58381
Potassium	27	1.0		mg/L	1	3/14/2019 5:34:30 PM	C58381
Silver	0.014	0.0050		mg/L	1	3/14/2019 5:34:30 PM	C58381
Sodium	7100	100		mg/L	100	3/20/2019 5:44:09 PM	B58535
Zinc	0.014	0.010		mg/L	1	3/14/2019 5:34:30 PM	C58381
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	0.00072	0.00020		mg/L	1	3/15/2019 11:27:05 AM	43702
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	7.4	1.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
Toluene	ND	1.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
Ethylbenzene	ND	1.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
Naphthalene	ND	2.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
1-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
2-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:33:00 PM	SL58401
Xylenes, Total	ND	1.5		µg/L	1	3/15/2019 6:33:00 PM	SL58401
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	3/15/2019 6:33:00 PM	SL58401
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	3/15/2019 6:33:00 PM	SL58401
Surr: Dibromofluoromethane	92.0	70-130		%Rec	1	3/15/2019 6:33:00 PM	SL58401
Surr: Toluene-d8	93.9	70-130		%Rec	1	3/15/2019 6:33:00 PM	SL58401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/11/2019 11:50:00 AM

Lab ID: 1903607-004

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: pmf
Antimony	ND	0.0050		mg/L	5	3/20/2019 4:56:09 PM	D58522
Arsenic	ND	0.0050		mg/L	5	3/20/2019 4:56:09 PM	D58522
Lead	ND	0.0025		mg/L	5	3/20/2019 4:56:09 PM	D58522
Selenium	0.0079	0.0050		mg/L	5	3/20/2019 4:56:09 PM	D58522
Thallium	ND	0.0025		mg/L	5	3/20/2019 4:56:09 PM	D58522
Uranium	0.0074	0.0025		mg/L	5	3/22/2019 11:53:41 AM	A58572
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Fluoride	ND	2.0		mg/L	20	3/15/2019 3:26:20 AM	A58394
Chloride	3100	250		mg/L	500	3/15/2019 8:04:01 PM	R58421
Bromide	2.1	0.10		mg/L	1	3/15/2019 3:13:56 AM	A58394
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/15/2019 3:26:20 AM	A58394
Sulfate	2000	250		mg/L	500	3/15/2019 8:04:01 PM	R58421
Nitrate+Nitrite as N	ND	2.0		mg/L	10	3/15/2019 9:21:18 PM	R58421
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	14000	25		µmhos/c	5	3/19/2019 12:37:29 PM	R58511
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO <sub>3</sub> )	243.3	20.00		mg/L Ca	1	3/14/2019 2:38:29 PM	R58386
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	3/14/2019 2:38:29 PM	R58386
Total Alkalinity (as CaCO <sub>3</sub> )	243.3	20.00		mg/L Ca	1	3/14/2019 2:38:29 PM	R58386
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: CJS
Total Dissolved Solids	8680	20.0	*	mg/L	1	3/21/2019 9:33:00 AM	43745
<b>SM4500-H+B / 9040C: PH</b>							Analyst: JRR
pH	7.27		H	pH units	1	3/14/2019 2:38:29 PM	R58386
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: bcv
Aluminum	ND	0.020		mg/L	1	3/14/2019 5:38:46 PM	C58381
Barium	0.012	0.0020		mg/L	1	3/14/2019 5:38:46 PM	C58381
Beryllium	ND	0.0020		mg/L	1	3/14/2019 5:38:46 PM	C58381
Cadmium	ND	0.0020		mg/L	1	3/14/2019 5:38:46 PM	C58381
Calcium	560	20		mg/L	20	3/20/2019 5:46:19 PM	B58535
Chromium	ND	0.0060		mg/L	1	3/14/2019 5:38:46 PM	C58381
Cobalt	ND	0.0060		mg/L	1	3/14/2019 5:38:46 PM	C58381
Copper	ND	0.0060		mg/L	1	3/14/2019 5:38:46 PM	C58381
Iron	0.32	0.020	*	mg/L	1	3/14/2019 5:38:46 PM	C58381
Magnesium	350	5.0		mg/L	5	3/14/2019 5:40:57 PM	C58381
Manganese	0.18	0.0020	*	mg/L	1	3/14/2019 5:38:46 PM	C58381
Molybdenum	ND	0.0080		mg/L	1	3/14/2019 5:38:46 PM	C58381

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1903607

Date Reported: 9/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/11/2019 11:50:00 AM

Lab ID: 1903607-004

Matrix: AQUEOUS

Received Date: 3/13/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Nickel	ND	0.010		mg/L	1	3/14/2019 5:38:46 PM	C58381
Potassium	7.0	1.0		mg/L	1	3/14/2019 5:38:46 PM	C58381
Silver	0.010	0.0050		mg/L	1	3/14/2019 5:38:46 PM	C58381
Sodium	1800	20		mg/L	20	3/20/2019 5:46:19 PM	B58535
Zinc	0.016	0.010		mg/L	1	3/14/2019 5:38:46 PM	C58381
<b>EPA METHOD 245.1: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.00020		mg/L	1	3/15/2019 11:29:18 AM	43702
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
Toluene	ND	1.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
Ethylbenzene	ND	1.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
Naphthalene	ND	2.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
1-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
2-Methylnaphthalene	ND	4.0		µg/L	1	3/15/2019 6:57:00 PM	SL58401
Xylenes, Total	ND	1.5		µg/L	1	3/15/2019 6:57:00 PM	SL58401
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	3/15/2019 6:57:00 PM	SL58401
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	3/15/2019 6:57:00 PM	SL58401
Surr: Dibromofluoromethane	91.6	70-130		%Rec	1	3/15/2019 6:57:00 PM	SL58401
Surr: Toluene-d8	94.7	70-130		%Rec	1	3/15/2019 6:57:00 PM	SL58401

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-4		MW-3			
	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	6400	278.38	4600	200.09	7100	308.83	1800	78.29		
Potassium	6.3	0.16	13	0.33	27	0.69	7.0	0.18		
Calcium	1900	94.81	840	41.92	790	39.42	560	27.94		
Magnesium	2800	230.45	450	37.04	320	26.34	350.0	28.81		
<b>Total Cations</b>		603.81		279.37		375.28		135.22		
<b>ANIONS</b>	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	3000	62.46	2300	47.89	2500	52.05	2000	41.64		
Chloride	18000	507.76	8100	228.49	12000	338.50	3100	87.45		
Bicarbonate (CaCO <sub>3</sub> )	236.4	4.72	223.0	4.46	298.2	5.96	243.3	4.86		
Carbonate (CaCO <sub>3</sub> )										
Phosphate (P)										
Nitrite (N)	27	1.93			-					
Nitrate (N)										
Fluoride										
Bromide	12	0.15	3.3	0.04	4.4	0.06	2.1	0.03		
<b>Total Anions</b>		577.02		280.88		396.57		133.98		
Elect. Cond. (µMhos/cm)	56000		29000		38000		14000			
<b>CATION/ANION RATIO</b>		1.05		0.99		0.95		1.01		
% Difference		2		0		3		0		
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>										
TDS (measured)	32600		16900		22900		8680			
TDS (calculated)	32380		16440		22920		7965			
Ratio meas TDS:calc TDS		1.0		1.0		1.0		1.1		
Ratio Meas. TDS:EC		0.58		0.58		0.60		0.62		
Ratio Calc. TDS:EC		0.58		0.57		0.60		0.57		
Ratio of anion sum:EC		1.0		1.0		1.0		1.0		
Ratio of cation sum:EC		1.1		1.0		1.0		1.0		

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-C		SampType: MBLK				TestCode: EPA Method 200.7: Dissolved Metals				
Client ID: PBW		Batch ID: C58381				RunNo: 58381				
Prep Date:		Analysis Date: 3/14/2019				SeqNo: 1959731		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: LCS-C		SampType: LCS				TestCode: EPA Method 200.7: Dissolved Metals				
Client ID: LCSW		Batch ID: C58381				RunNo: 58381				
Prep Date:		Analysis Date: 3/14/2019				SeqNo: 1959735		Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.54	0.020	0.5000	0	108	85	115			
Barium	0.49	0.0020	0.5000	0	98.7	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Boron	0.50	0.040	0.5000	0	100	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Chromium	0.50	0.0060	0.5000	0	101	85	115			
Cobalt	0.50	0.0060	0.5000	0	101	85	115			
Copper	0.50	0.0060	0.5000	0	101	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Magnesium	49	1.0	50.00	0	98.1	85	115			
Manganese	0.49	0.0020	0.5000	0	99.0	85	115			
Molybdenum	0.49	0.0080	0.5000	0	98.9	85	115			
Nickel	0.51	0.010	0.5000	0	103	85	115			
Potassium	49	1.0	50.00	0	97.2	85	115			
Silver	0.097	0.0050	0.1000	0	97.2	85	115			
Zinc	0.51	0.010	0.5000	0	101	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: LCS-B	SampType: LCS	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: LCSW	Batch ID: B58535	RunNo: 58535								
Prep Date:	Analysis Date: 3/20/2019	SeqNo: 1965347	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	47	1.0	50.00	0	93.5	85	115			
Magnesium	52	1.0	50.00	0	103	85	115			
Sodium	50	1.0	50.00	0	99.1	85	115			

Sample ID: MB-B RR	SampType: MBLK	TestCode: EPA Method 200.7: Dissolved Metals								
Client ID: PBW	Batch ID: B58535	RunNo: 58535								
Prep Date:	Analysis Date: 3/20/2019	SeqNo: 1965349	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	ND	1.0								
Magnesium	ND	1.0								
Sodium	ND	1.0								

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>D58522</b>	RunNo: <b>58522</b>								
Prep Date:	Analysis Date: <b>3/20/2019</b>	SeqNo: <b>1964302</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>D58522</b>	RunNo: <b>58522</b>								
Prep Date:	Analysis Date: <b>3/20/2019</b>	SeqNo: <b>1964304</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.026	0.0010	0.02500	0	103	85	115			
Arsenic	0.024	0.0010	0.02500	0	97.7	85	115			
Lead	0.011	0.00050	0.01250	0	88.5	85	115			
Selenium	0.024	0.0010	0.02500	0	96.0	85	115			
Thallium	0.011	0.00050	0.01250	0	89.8	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A58572</b>	RunNo: <b>58572</b>								
Prep Date:	Analysis Date: <b>3/22/2019</b>	SeqNo: <b>1966586</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								
Uranium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A58572</b>	RunNo: <b>58572</b>								
Prep Date:	Analysis Date: <b>3/22/2019</b>	SeqNo: <b>1966588</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	95.4	85	115			
Arsenic	0.024	0.0010	0.02500	0	94.0	85	115			
Lead	0.012	0.00050	0.01250	0	94.3	85	115			
Selenium	0.023	0.0010	0.02500	0	91.8	85	115			
Thallium	0.012	0.00050	0.01250	0	93.8	85	115			
Uranium	0.011	0.00050	0.01250	0	90.0	85	115			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-43702	SampType: MBLK	TestCode: EPA Method 245.1: Mercury								
Client ID: PBW	Batch ID: 43702	RunNo: 58415								
Prep Date: 3/14/2019	Analysis Date: 3/15/2019	SeqNo: 1960250 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: LCS-43702	SampType: LCS	TestCode: EPA Method 245.1: Mercury								
Client ID: LCSW	Batch ID: 43702	RunNo: 58415								
Prep Date: 3/14/2019	Analysis Date: 3/15/2019	SeqNo: 1960251 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0054	0.00020	0.005000	0	109	80	120			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 1903607

27-Sep-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A58394</b>	RunNo: <b>58394</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1959401</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A58394</b>	RunNo: <b>58394</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1959402</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Bromide	2.4	0.10	2.500	0	94.2	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	95.6	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58421</b>	RunNo: <b>58421</b>								
Prep Date:	Analysis Date: <b>3/15/2019</b>	SeqNo: <b>1960405</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R58421</b>	RunNo: <b>58421</b>								
Prep Date:	Analysis Date: <b>3/15/2019</b>	SeqNo: <b>1960406</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.4	90	110			
Sulfate	9.7	0.50	10.00	0	96.7	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.7	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1903607**

27-Sep-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>SL58401</b>			RunNo: <b>58401</b>						
Prep Date:	Analysis Date: <b>3/15/2019</b>			SeqNo: <b>1960614</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.1	70	130			
Toluene	19	1.0	20.00	0	95.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.1	70	130			
Surr: Toluene-d8	9.4		10.00		94.4	70	130			

Sample ID: <b>rb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>PBW</b>	Batch ID: <b>SL58401</b>			RunNo: <b>58401</b>						
Prep Date:	Analysis Date: <b>3/15/2019</b>			SeqNo: <b>1960615</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	9.0		10.00		89.9	70	130			
Surr: Toluene-d8	9.6		10.00		95.7	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>Ics-1 99.0uS eC</b>		SampType: <b>LCS</b>			TestCode: <b>SM2510B: Specific Conductance</b>					
Client ID: <b>LCSW</b>		Batch ID: <b>R58511</b>			RunNo: <b>58511</b>					
Prep Date:		Analysis Date: <b>3/19/2019</b>			SeqNo: <b>1964699</b>		Units: <b>µmhos/cm</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	5.0	99.00	0	102	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607

27-Sep-21

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>mb-1 alk</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58386</b>	RunNo: <b>58386</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1958439</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-1 alk</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R58386</b>	RunNo: <b>58386</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1958440</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.28	20.00	80.00	0	96.6	90	110			

Sample ID: <b>lcsd-1 alk</b>	SampType: <b>LCSD</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSS02</b>	Batch ID: <b>R58386</b>	RunNo: <b>58386</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1958441</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.20	20.00	80.00	0	96.5	90	110	0.104	20	

Sample ID: <b>mb-2 alk</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R58386</b>	RunNo: <b>58386</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1958463</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-2 alk</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R58386</b>	RunNo: <b>58386</b>								
Prep Date:	Analysis Date: <b>3/14/2019</b>	SeqNo: <b>1958464</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.16	20.00	80.00	0	96.4	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 1903607  
27-Sep-21

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: MB-43745	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 43745	RunNo: 58518								
Prep Date: 3/18/2019	Analysis Date: 3/21/2019	SeqNo: 1964122		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-43745	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 43745	RunNo: 58518								
Prep Date: 3/18/2019	Analysis Date: 3/21/2019	SeqNo: 1964123		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Safety Env Solutions**Work Order Number: **1903607**RcptNo: **1**Received By: **Desiree Dominguez** 3/13/2019 9:00:00 AMCompleted By: **Erin Melendrez** 3/13/2019 9:53:54 AMReviewed By: **ENM** 3/13/19LB: **VVZ 3/13/19**

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: 12  
( $<2$  or  $>12$  unless noted)

Adjusted? NOChecked by: VVZ 3/13/19

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 19, 2019

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX

RE: Scripps Pit

OrderNo.: 1910F04

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/30/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 10/29/2019 12:00:00 PM

Lab ID: 1910F04-001

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Antimony	ND	0.020		mg/L	20	11/7/2019 12:38:52 PM	B64306
Arsenic	ND	0.020		mg/L	20	11/8/2019 10:48:29 AM	A64363
Lead	ND	0.010		mg/L	20	11/7/2019 12:38:52 PM	B64306
Selenium	0.074	0.020	*	mg/L	20	11/8/2019 10:48:29 AM	A64363
Thallium	ND	0.010		mg/L	20	11/7/2019 12:38:52 PM	B64306
Uranium	0.060	0.010	*	mg/L	20	11/8/2019 10:48:29 AM	A64363
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Fluoride	ND	2.0		mg/L	20	10/30/2019 5:31:59 PM	A64115
Chloride	12000	1000		mg/L	2E+	10/31/2019 11:22:09 PM	A64146
Bromide	5.0	2.0		mg/L	20	10/30/2019 5:31:59 PM	A64115
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	10/30/2019 5:31:59 PM	A64115
Sulfate	10000	250		mg/L	500	10/31/2019 11:35:00 PM	A64146
Nitrate+Nitrite as N	16	10	*	mg/L	50	11/1/2019 12:26:26 AM	A64146
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	53000	50		µmhos/c	10	11/1/2019 9:30:05 AM	R64160
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	353.7	20.00		mg/L Ca	1	10/30/2019 7:55:26 PM	R64112
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	10/30/2019 7:55:26 PM	R64112
Total Alkalinity (as CaCO <sub>3</sub> )	353.7	20.00		mg/L Ca	1	10/30/2019 7:55:26 PM	R64112
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	36500	2000	*D	mg/L	1	11/4/2019 3:13:00 PM	48529
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.60		H	pH units	1	10/30/2019 7:55:26 PM	R64112
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Aluminum	ND	0.020		mg/L	1	11/12/2019 6:50:24 PM	A64454
Barium	0.013	0.0020		mg/L	1	11/8/2019 5:12:40 PM	C64376
Beryllium	0.0024	0.0020		mg/L	1	11/8/2019 5:12:40 PM	C64376
Cadmium	ND	0.0020		mg/L	1	11/8/2019 5:12:40 PM	C64376
Calcium	810	10		mg/L	10	11/12/2019 6:52:48 PM	A64454
Chromium	ND	0.0060		mg/L	1	11/8/2019 5:12:40 PM	C64376
Cobalt	ND	0.0060		mg/L	1	11/8/2019 5:12:40 PM	C64376
Copper	ND	0.0060		mg/L	1	11/8/2019 5:12:40 PM	C64376
Iron	ND	0.020		mg/L	1	11/12/2019 6:50:24 PM	A64454
Magnesium	2200	100		mg/L	100	11/12/2019 6:57:07 PM	A64454
Manganese	0.0046	0.0020		mg/L	1	11/8/2019 5:12:40 PM	C64376
Molybdenum	ND	0.0080		mg/L	1	11/8/2019 5:12:40 PM	C64376

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 10/29/2019 12:00:00 PM

Lab ID: 1910F04-001

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Nickel	ND	0.010		mg/L	1	11/8/2019 5:12:40 PM	C64376
Potassium	22	1.0		mg/L	1	11/8/2019 5:12:40 PM	C64376
Silver	0.019	0.0050		mg/L	1	11/8/2019 5:12:40 PM	C64376
Sodium	7500	100		mg/L	100	11/12/2019 6:57:07 PM	A64454
Zinc	0.047	0.010		mg/L	1	11/8/2019 5:12:40 PM	C64376
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	10/31/2019 6:20:00 PM	BSL_W6
Toluene	ND	1.0		µg/L	1	10/31/2019 6:20:00 PM	BSL_W6
Ethylbenzene	ND	1.0		µg/L	1	10/31/2019 6:20:00 PM	BSL_W6
Naphthalene	ND	2.0		µg/L	1	10/31/2019 6:20:00 PM	BSL_W6
Xylenes, Total	ND	1.5		µg/L	1	10/31/2019 6:20:00 PM	BSL_W6
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/31/2019 6:20:00 PM	BSL_W6
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/31/2019 6:20:00 PM	BSL_W6
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	10/31/2019 6:20:00 PM	BSL_W6
Surr: Toluene-d8	95.9	70-130		%Rec	1	10/31/2019 6:20:00 PM	BSL_W6

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 10/29/2019 1:50:00 PM

Lab ID: 1910F04-002

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Antimony	ND	0.020		mg/L	20	11/7/2019 12:41:29 PM	B64306
Arsenic	ND	0.020		mg/L	20	11/8/2019 10:56:23 AM	A64363
Lead	ND	0.010		mg/L	20	11/7/2019 12:41:29 PM	B64306
Selenium	ND	0.020		mg/L	20	11/8/2019 10:56:23 AM	A64363
Thallium	ND	0.010		mg/L	20	11/7/2019 12:41:29 PM	B64306
Uranium	0.014	0.010		mg/L	20	11/8/2019 10:56:23 AM	A64363
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Fluoride	ND	0.50		mg/L	5	10/30/2019 5:44:23 PM	A64115
Chloride	15000	1000		mg/L	2E+	10/31/2019 11:47:52 PM	A64146
Bromide	4.3	2.0		mg/L	20	10/30/2019 5:56:48 PM	A64115
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/30/2019 5:44:23 PM	A64115
Sulfate	2100	250		mg/L	500	11/1/2019 12:00:43 AM	A64146
Nitrate+Nitrite as N	ND	10		mg/L	50	11/1/2019 12:39:18 AM	A64146
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	52000	50		µmhos/c	10	11/1/2019 9:33:05 AM	R64160
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	248.7	20.00		mg/L Ca	1	10/30/2019 8:13:44 PM	R64112
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	10/30/2019 8:13:44 PM	R64112
Total Alkalinity (as CaCO <sub>3</sub> )	248.7	20.00		mg/L Ca	1	10/30/2019 8:13:44 PM	R64112
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	33700	2000	*D	mg/L	1	11/4/2019 3:13:00 PM	48529
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.40		H	pH units	1	10/30/2019 8:13:44 PM	R64112
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Aluminum	ND	0.10		mg/L	5	11/12/2019 6:59:15 PM	A64454
Barium	0.018	0.010		mg/L	5	11/8/2019 5:19:28 PM	C64376
Beryllium	0.015	0.010	*	mg/L	5	11/8/2019 5:19:28 PM	C64376
Cadmium	ND	0.010		mg/L	5	11/8/2019 5:19:28 PM	C64376
Calcium	1700	20		mg/L	20	11/12/2019 7:08:04 PM	A64454
Chromium	ND	0.030		mg/L	5	11/8/2019 5:19:28 PM	C64376
Cobalt	ND	0.030		mg/L	5	11/8/2019 5:19:28 PM	C64376
Copper	ND	0.030		mg/L	5	11/8/2019 5:19:28 PM	C64376
Iron	ND	0.10		mg/L	5	11/12/2019 6:59:15 PM	A64454
Magnesium	610	20		mg/L	20	11/12/2019 7:08:04 PM	A64454
Manganese	0.53	0.010	*	mg/L	5	11/8/2019 5:19:28 PM	C64376
Molybdenum	ND	0.040		mg/L	5	11/8/2019 5:19:28 PM	C64376

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 10/29/2019 1:50:00 PM

Lab ID: 1910F04-002

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Nickel	ND	0.050		mg/L	5	11/8/2019 5:19:28 PM	C64376
Potassium	29	5.0		mg/L	5	11/8/2019 5:19:28 PM	C64376
Silver	0.059	0.025		mg/L	5	11/8/2019 5:19:28 PM	C64376
Sodium	8600	100		mg/L	100	11/12/2019 7:10:20 PM	A64454
Zinc	ND	0.050		mg/L	5	11/8/2019 5:19:28 PM	C64376
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	2.1	1.0		µg/L	1	10/31/2019 6:43:00 PM	BSL_W6
Toluene	ND	1.0		µg/L	1	10/31/2019 6:43:00 PM	BSL_W6
Ethylbenzene	ND	1.0		µg/L	1	10/31/2019 6:43:00 PM	BSL_W6
Naphthalene	ND	2.0		µg/L	1	10/31/2019 6:43:00 PM	BSL_W6
Xylenes, Total	ND	1.5		µg/L	1	10/31/2019 6:43:00 PM	BSL_W6
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/31/2019 6:43:00 PM	BSL_W6
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	10/31/2019 6:43:00 PM	BSL_W6
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	10/31/2019 6:43:00 PM	BSL_W6
Surr: Toluene-d8	96.1	70-130		%Rec	1	10/31/2019 6:43:00 PM	BSL_W6

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 10/29/2019 2:45:00 PM

Lab ID: 1910F04-003

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: ELS
Antimony	ND	0.010		mg/L	10	11/6/2019 4:22:07 PM	B64277
Arsenic	ND	0.010		mg/L	10	11/6/2019 4:22:07 PM	B64277
Lead	ND	0.0050		mg/L	10	11/6/2019 4:22:07 PM	B64277
Selenium	ND	0.010		mg/L	10	11/6/2019 4:22:07 PM	B64277
Thallium	ND	0.0050		mg/L	10	11/6/2019 4:22:07 PM	B64277
Uranium	0.011	0.0050		mg/L	10	11/6/2019 4:22:07 PM	B64277
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CJS
Fluoride	0.53	0.50		mg/L	5	10/30/2019 6:09:13 PM	A64115
Chloride	3600	250		mg/L	500	11/1/2019 12:13:35 AM	A64146
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	10/30/2019 6:21:37 PM	A64115
Bromide	2.3	0.50		mg/L	5	10/30/2019 6:09:13 PM	A64115
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/30/2019 6:09:13 PM	A64115
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/30/2019 6:09:13 PM	A64115
Sulfate	2100	250		mg/L	500	11/1/2019 12:13:35 AM	A64146
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: JRR
Conductivity	18000	25		µmhos/c	5	11/1/2019 9:36:07 AM	R64160
<b>SM2320B: ALKALINITY</b>							Analyst: JRR
Bicarbonate (As CaCO <sub>3</sub> )	290.2	20.00		mg/L Ca	1	10/30/2019 8:28:20 PM	R64112
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	10/30/2019 8:28:20 PM	R64112
Total Alkalinity (as CaCO <sub>3</sub> )	290.2	20.00		mg/L Ca	1	10/30/2019 8:28:20 PM	R64112
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: JMT
Total Dissolved Solids	10600	40.0	*D	mg/L	1	10/31/2019 3:28:00 PM	48488
<b>SM4500-H+B / 9040C: PH</b>							Analyst: JRR
pH	7.54		H	pH units	1	10/30/2019 8:28:20 PM	R64112
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: bcv
Aluminum	ND	0.020		mg/L	1	11/12/2019 7:12:29 PM	A64454
Barium	0.014	0.0020		mg/L	1	11/8/2019 5:31:00 PM	C64376
Beryllium	0.0028	0.0020		mg/L	1	11/8/2019 5:31:00 PM	C64376
Cadmium	ND	0.0020		mg/L	1	11/12/2019 7:12:29 PM	A64454
Calcium	760	10		mg/L	10	11/12/2019 7:16:44 PM	A64454
Chromium	ND	0.0060		mg/L	1	11/8/2019 5:31:00 PM	C64376
Cobalt	ND	0.0060		mg/L	1	11/8/2019 5:31:00 PM	C64376
Copper	ND	0.0060		mg/L	1	11/8/2019 5:31:00 PM	C64376
Iron	0.28	0.020		mg/L	1	11/12/2019 7:12:29 PM	A64454
Magnesium	460	5.0		mg/L	5	11/12/2019 7:14:41 PM	A64454
Manganese	0.16	0.0020	*	mg/L	1	11/8/2019 5:31:00 PM	C64376

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 1910F04

Date Reported: 11/19/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 10/29/2019 2:45:00 PM

Lab ID: 1910F04-003

Matrix: AQUEOUS

Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Molybdenum	ND	0.0080		mg/L	1	11/8/2019 5:31:00 PM	C64376
Nickel	ND	0.010		mg/L	1	11/8/2019 5:31:00 PM	C64376
Potassium	8.5	1.0		mg/L	1	11/12/2019 7:12:29 PM	A64454
Silver	0.019	0.0050		mg/L	1	11/8/2019 5:31:00 PM	C64376
Sodium	2100	50		mg/L	50	11/12/2019 7:18:58 PM	A64454
Zinc	0.021	0.010		mg/L	1	11/8/2019 5:31:00 PM	C64376
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	10/31/2019 7:07:00 PM	BSL_W6
Toluene	ND	1.0		µg/L	1	10/31/2019 7:07:00 PM	BSL_W6
Ethylbenzene	ND	1.0		µg/L	1	10/31/2019 7:07:00 PM	BSL_W6
Naphthalene	ND	2.0		µg/L	1	10/31/2019 7:07:00 PM	BSL_W6
Xylenes, Total	ND	1.5		µg/L	1	10/31/2019 7:07:00 PM	BSL_W6
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/31/2019 7:07:00 PM	BSL_W6
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/31/2019 7:07:00 PM	BSL_W6
Surr: Dibromofluoromethane	98.2	70-130		%Rec	1	10/31/2019 7:07:00 PM	BSL_W6
Surr: Toluene-d8	96.5	70-130		%Rec	1	10/31/2019 7:07:00 PM	BSL_W6

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-4		MW-3			
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	7500	326.23	8600	374.08	2100	91.34		
Potassium	22	0.56	29	0.74	8.5	0.22		
Calcium	810	40.42	1700	84.83	780	38.92		
Magnesium	2200	181.07	610	50.21	460	37.86		
<b>Total Cations</b>		548.28		509.85		168.34		
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	10000	208.20	2100	43.72	2100	43.72		
Chloride	12000	338.50	15000	423.13	3600	101.55		
Bicarbonate (CaCO <sub>3</sub> )	353.7	7.07	248.7	4.97	290.2	5.80		
Carbonate (CaCO <sub>3</sub> )								
Phosphate (P)								
Nitrite (N)	16	1.14			-	0.03		
Nitrate (N)					0.53	0.03		
Fluoride					2.3	0.03		
Bromide	5.0	0.06	4.3	0.05				
<b>Total Anions</b>		554.98		471.88		151.13		
Elect. Cond. (µMhos/cm)	53000		52000		18000			
CATION/ANION RATIO								
% Difference		0.99		1.08		1.11		
		1		4		5		
TOTAL DISSOLVED SOLIDS RATIOS								
TDS (measured)	36500		33700		10600			
TDS (calculated)	32820		28193		9225			
Ratio meas TDS:calc TDS		1.1		1.2		1.1		
Ratio Meas. TDS:EC		0.69		0.65		0.59		
Ratio Calc. TDS:EC		0.62		0.54		0.51		
Ratio of anion sum:EC		1.0		0.9		0.8		
Ratio of cation sum:EC		1.0		1.0		0.9		

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9.

Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1910F04****19-Nov-19****Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>		Batch ID: <b>C64376</b>		RunNo: <b>64376</b>						
Prep Date:		Analysis Date: <b>11/8/2019</b>		SeqNo: <b>2203479</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	ND	0.0020								
Beryllium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: <b>LCS</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>C64376</b>		RunNo: <b>64376</b>						
Prep Date:		Analysis Date: <b>11/8/2019</b>		SeqNo: <b>2203481</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Barium	0.52	0.0020	0.5000	0	103	85	115			
Beryllium	0.51	0.0020	0.5000	0	103	85	115			
Chromium	0.51	0.0060	0.5000	0	101	85	115			
Cobalt	0.49	0.0060	0.5000	0	98.5	85	115			
Copper	0.44	0.0060	0.5000	0	88.7	85	115			
Manganese	0.49	0.0020	0.5000	0	98.6	85	115			
Molybdenum	0.52	0.0080	0.5000	0	103	85	115			
Nickel	0.49	0.010	0.5000	0	97.7	85	115			
Potassium	51	1.0	50.00	0	103	85	115			
Silver	0.099	0.0050	0.1000	0	99.1	85	115			
Zinc	0.53	0.010	0.5000	0	105	85	115			

Sample ID: <b>MB</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>		Batch ID: <b>A64454</b>		RunNo: <b>64454</b>						
Prep Date:		Analysis Date: <b>11/12/2019</b>		SeqNo: <b>2206533</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Aluminum	ND	0.020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Iron	ND	0.020								
Magnesium	ND	1.0								
Potassium	ND	1.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>PBW</b>	Batch ID: <b>A64454</b>				RunNo: <b>64454</b>					
Prep Date:	Analysis Date: <b>11/12/2019</b>				SeqNo: <b>2206533</b>	Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 200.7: Dissolved Metals</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>A64454</b>				RunNo: <b>64454</b>					
Prep Date:	Analysis Date: <b>11/12/2019</b>				SeqNo: <b>2206535</b>	Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.54	0.020	0.5000	0	108	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.9	85	115			
Calcium	48	1.0	50.00	0	96.9	85	115			
Iron	0.49	0.020	0.5000	0	97.5	85	115			
Magnesium	49	1.0	50.00	0	97.4	85	115			
Potassium	48	1.0	50.00	0	95.9	85	115			
Sodium	48	1.0	50.00	0	96.7	85	115			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1910F04****19-Nov-19****Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B64277</b>	RunNo: <b>64277</b>								
Prep Date:	Analysis Date: <b>11/6/2019</b>	SeqNo: <b>2199840</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								
Uranium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B64277</b>	RunNo: <b>64277</b>								
Prep Date:	Analysis Date: <b>11/6/2019</b>	SeqNo: <b>2199842</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.023	0.0010	0.02500	0	92.4	85	115			
Arsenic	0.024	0.0010	0.02500	0	96.9	85	115			
Lead	0.012	0.00050	0.01250	0	97.0	85	115			
Selenium	0.023	0.0010	0.02500	0	92.2	85	115			
Thallium	0.012	0.00050	0.01250	0	97.6	85	115			
Uranium	0.012	0.00050	0.01250	0	96.7	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B64306</b>	RunNo: <b>64306</b>								
Prep Date:	Analysis Date: <b>11/7/2019</b>	SeqNo: <b>2200820</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Lead	ND	0.00050								
Thallium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B64306</b>	RunNo: <b>64306</b>								
Prep Date:	Analysis Date: <b>11/7/2019</b>	SeqNo: <b>2200822</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	97.4	85	115			
Lead	0.012	0.00050	0.01250	0	99.6	85	115			
Thallium	0.012	0.00050	0.01250	0	98.7	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>PBW</b>		Batch ID: <b>A64363</b>		RunNo: <b>64363</b>						
Prep Date:		Analysis Date: <b>11/8/2019</b>		SeqNo: <b>2202693</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	0.0010
Selenium	ND	0.0010
Uranium	ND	0.00050

Sample ID: <b>LCS</b>		SampType: <b>LCS</b>		TestCode: <b>EPA 200.8: Dissolved Metals</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>A64363</b>		RunNo: <b>64363</b>						
Prep Date:		Analysis Date: <b>11/8/2019</b>		SeqNo: <b>2202695</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	0.024	0.0010	0.02500	0	94.2	85	115
Selenium	0.023	0.0010	0.02500	0	91.8	85	115
Uranium	0.012	0.00050	0.01250	0	93.7	85	115

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **1910F04****19-Nov-19****Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A64115</b>	RunNo: <b>64115</b>								
Prep Date:	Analysis Date: <b>10/30/2019</b>	SeqNo: <b>2194115</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A64115</b>	RunNo: <b>64115</b>								
Prep Date:	Analysis Date: <b>10/30/2019</b>	SeqNo: <b>2194116</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.55	0.10	0.5000	0	109	90	110			
Nitrogen, Nitrite (As N)	0.96	0.10	1.000	0	96.2	90	110			
Bromide	2.5	0.10	2.500	0	102	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	105	90	110			
Phosphorus, Orthophosphate (As P)	4.9	0.50	5.000	0	98.9	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A64146</b>	RunNo: <b>64146</b>								
Prep Date:	Analysis Date: <b>10/31/2019</b>	SeqNo: <b>2194961</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A64146</b>	RunNo: <b>64146</b>								
Prep Date:	Analysis Date: <b>10/31/2019</b>	SeqNo: <b>2194962</b>		Units: <b>mg/L</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.4	0.50	5.000	0	107	90	110			
Sulfate	9.9	0.50	10.00	0	98.9	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: 100ng lcs2	SampType: LCS	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch ID: BSL_W64078	RunNo: 64078								
Prep Date:	Analysis Date: 10/31/2019	SeqNo: 2195326	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	19	1.0	20.00	0	94.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.9	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.5	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Sample ID: rb2	SampType: MBLK	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: PBW	Batch ID: BSL_W64078	RunNo: 64078								
Prep Date:	Analysis Date: 10/31/2019	SeqNo: 2195327	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		99.5	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: Ics-1 99.1uS eC		SampType: Ics		TestCode: SM2510B: Specific Conductance						
Client ID: LCSW		Batch ID: R64160		RunNo: 64160						
Prep Date:		Analysis Date: 11/1/2019		SeqNo: 2195401		Units: µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	5.0	99.10	0	101	85	115			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: mb-1 alk	SampType: mblk	TestCode: SM2320B: Alkalinity
Client ID: PBW	Batch ID: R64112	RunNo: 64112
Prep Date:	Analysis Date: 10/30/2019	SeqNo: 2193872 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	ND	20.00

Sample ID: lcs-1 alk	SampType: lcs	TestCode: SM2320B: Alkalinity
Client ID: LCSW	Batch ID: R64112	RunNo: 64112
Prep Date:	Analysis Date: 10/30/2019	SeqNo: 2193873 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	78.72	20.00 80.00 0 98.4 90 110

Sample ID: lcs-2 alk	SampType: lcs	TestCode: SM2320B: Alkalinity
Client ID: LCSW	Batch ID: R64112	RunNo: 64112
Prep Date:	Analysis Date: 10/30/2019	SeqNo: 2193897 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	80.24	20.00 80.00 0 100 90 110

Sample ID: mb-2 alk	SampType: mblk	TestCode: SM2320B: Alkalinity
Client ID: PBW	Batch ID: R64112	RunNo: 64112
Prep Date:	Analysis Date: 10/30/2019	SeqNo: 2193899 Units: mg/L CaCO3
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Alkalinity (as CaCO3)	ND	20.00

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1910F04

19-Nov-19

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: MB-48488	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 48488	RunNo: 64130								
Prep Date: 10/30/2019	Analysis Date: 10/31/2019	SeqNo: 2194444 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-48488	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 48488	RunNo: 64130								
Prep Date: 10/30/2019	Analysis Date: 10/31/2019	SeqNo: 2194445 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: MB-48529	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 48529	RunNo: 64202								
Prep Date: 11/1/2019	Analysis Date: 11/4/2019	SeqNo: 2196839 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-48529	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 48529	RunNo: 64202								
Prep Date: 11/1/2019	Analysis Date: 11/4/2019	SeqNo: 2196840 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1910F04

RcptNo: 1

Received By: JUAN ROSAS

10/30/2019 9:00:00 AM

Completed By: Erin Melendrez

10/30/2019 10:11:17 AM

Reviewed By: DAD 10/30/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: 6  
( $\leq 2$  or  $>12$  unless noted)

Adjusted? NoChecked by: Don 10/30/19Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			
2	0.7	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

October 15, 2020

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX:

RE: Scripps Pit

OrderNo.: 2009B72

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/19/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 9/18/2020 1:00:00 PM

Lab ID: 2009B72-001

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Antimony	ND	0.010		mg/L	10	9/30/2020 4:21:16 PM	B72310
Arsenic	ND	0.010		mg/L	10	9/30/2020 4:21:16 PM	B72310
Lead	ND	0.0050		mg/L	10	9/30/2020 4:21:16 PM	B72310
Selenium	0.076	0.010	*	mg/L	10	9/30/2020 4:21:16 PM	B72310
Thallium	ND	0.0050		mg/L	10	9/30/2020 5:39:25 PM	B72310
Uranium	0.029	0.0050		mg/L	10	9/30/2020 4:21:16 PM	B72310
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Fluoride	ND	0.50		mg/L	5	10/1/2020 3:31:47 PM	R72353
Chloride	14000	1000		mg/L	2E+	10/3/2020 1:29:49 PM	R72383
Bromide	14	0.50		mg/L	5	10/1/2020 3:31:47 PM	R72353
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	10/1/2020 3:31:47 PM	R72353
Sulfate	2000	1000		mg/L	2E+	10/3/2020 1:29:49 PM	R72383
Nitrate+Nitrite as N	15	10	*	mg/L	50	10/3/2020 3:58:44 PM	R72383
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	57000	100		µmhos/c	10	9/25/2020 8:31:12 AM	R72166
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	166.3	20.00		mg/L Ca	1	9/24/2020 12:24:41 PM	R72131
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	9/24/2020 12:24:41 PM	R72131
Total Alkalinity (as CaCO <sub>3</sub> )	166.3	20.00		mg/L Ca	1	9/24/2020 12:24:41 PM	R72131
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	31400	200	*D	mg/L	1	9/24/2020 6:32:00 PM	55385
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.10		H	pH units	1	9/24/2020 12:24:41 PM	R72131
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Aluminum	ND	0.10		mg/L	5	10/5/2020 6:11:21 PM	A72400
Barium	0.034	0.010		mg/L	5	10/5/2020 6:11:21 PM	A72400
Beryllium	ND	0.010		mg/L	5	10/5/2020 6:11:21 PM	A72400
Boron	0.21	0.20		mg/L	5	10/5/2020 6:11:21 PM	A72400
Cadmium	ND	0.010		mg/L	5	10/5/2020 6:11:21 PM	A72400
Calcium	2500	50		mg/L	50	10/5/2020 6:13:13 PM	A72400
Chromium	ND	0.030		mg/L	5	10/5/2020 6:11:21 PM	A72400
Cobalt	ND	0.030		mg/L	5	10/5/2020 6:11:21 PM	A72400
Copper	ND	0.030		mg/L	5	10/5/2020 6:11:21 PM	A72400
Iron	ND	0.10		mg/L	5	10/5/2020 6:11:21 PM	A72400
Magnesium	1900	50		mg/L	50	10/5/2020 6:13:13 PM	A72400
Manganese	0.015	0.010		mg/L	5	10/5/2020 6:11:21 PM	A72400

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>		
*	Value exceeds Maximum Contaminant Level.	
D	Sample Diluted Due to Matrix	
H	Holding times for preparation or analysis exceeded	
ND	Not Detected at the Reporting Limit	
PQL	Practical Quantitative Limit	
S	% Recovery outside of range due to dilution or matrix	

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 9/18/2020 1:00:00 PM

Lab ID: 2009B72-001

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Molybdenum	ND	0.040		mg/L	5	10/5/2020 6:11:21 PM	A72400
Nickel	ND	0.050		mg/L	5	10/5/2020 6:11:21 PM	A72400
Potassium	7.1	5.0		mg/L	5	10/5/2020 6:11:21 PM	A72400
Silver	ND	0.025		mg/L	5	10/5/2020 6:11:21 PM	A72400
Sodium	4400	50		mg/L	50	10/5/2020 6:13:13 PM	A72400
Zinc	0.056	0.050		mg/L	5	10/5/2020 6:11:21 PM	A72400
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	1.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
Toluene	ND	1.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
Ethylbenzene	ND	1.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
Naphthalene	ND	2.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 3:04:51 AM	A72134
Xylenes, Total	ND	1.5		µg/L	1	9/25/2020 3:04:51 AM	A72134
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%Rec	1	9/25/2020 3:04:51 AM	A72134
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/25/2020 3:04:51 AM	A72134
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/25/2020 3:04:51 AM	A72134
Surr: Toluene-d8	95.6	70-130		%Rec	1	9/25/2020 3:04:51 AM	A72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 9/18/2020 1:30:00 PM

Lab ID: 2009B72-002

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Antimony	ND	0.010		mg/L	10	9/30/2020 4:23:52 PM	B72310
Arsenic	ND	0.010		mg/L	10	9/30/2020 4:23:52 PM	B72310
Lead	ND	0.0050		mg/L	10	9/30/2020 4:23:52 PM	B72310
Selenium	0.013	0.010		mg/L	10	9/30/2020 4:23:52 PM	B72310
Thallium	ND	0.0050		mg/L	10	9/30/2020 5:42:01 PM	B72310
Uranium	0.012	0.0050		mg/L	10	9/30/2020 4:23:52 PM	B72310
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Fluoride	ND	2.0		mg/L	20	10/1/2020 4:09:01 PM	R72353
Chloride	5800	250		mg/L	500	10/3/2020 1:42:14 PM	R72383
Bromide	3.5	2.0		mg/L	20	10/1/2020 4:09:01 PM	R72353
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/1/2020 3:56:36 PM	R72353
Sulfate	2400	250		mg/L	500	10/3/2020 1:42:14 PM	R72383
Nitrate+Nitrite as N	ND	4.0		mg/L	20	10/3/2020 4:11:09 PM	R72383
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	25000	50		µmhos/c	5	9/25/2020 8:34:08 AM	R72166
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	206.0	20.00		mg/L Ca	1	9/24/2020 12:36:44 PM	R72131
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	9/24/2020 12:36:44 PM	R72131
Total Alkalinity (as CaCO <sub>3</sub> )	206.0	20.00		mg/L Ca	1	9/24/2020 12:36:44 PM	R72131
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	14100	100	*D	mg/L	1	9/24/2020 6:32:00 PM	55385
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.26		H	pH units	1	9/24/2020 12:36:44 PM	R72131
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Aluminum	ND	0.10		mg/L	5	10/5/2020 6:15:05 PM	A72400
Barium	0.013	0.010		mg/L	5	10/5/2020 6:15:05 PM	A72400
Beryllium	ND	0.010		mg/L	5	10/5/2020 6:15:05 PM	A72400
Boron	0.45	0.20		mg/L	5	10/5/2020 6:15:05 PM	A72400
Cadmium	ND	0.010		mg/L	5	10/5/2020 6:15:05 PM	A72400
Calcium	980	50		mg/L	50	10/5/2020 6:16:56 PM	A72400
Chromium	ND	0.030		mg/L	5	10/5/2020 6:15:05 PM	A72400
Cobalt	ND	0.030		mg/L	5	10/5/2020 6:15:05 PM	A72400
Copper	ND	0.030		mg/L	5	10/5/2020 6:15:05 PM	A72400
Iron	ND	0.10		mg/L	5	10/5/2020 6:15:05 PM	A72400
Magnesium	520	50		mg/L	50	10/5/2020 6:16:56 PM	A72400
Manganese	0.041	0.010		mg/L	5	10/5/2020 6:15:05 PM	A72400

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 9/18/2020 1:30:00 PM

Lab ID: 2009B72-002

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Molybdenum	ND	0.040		mg/L	5	10/5/2020 6:15:05 PM	A72400
Nickel	ND	0.050		mg/L	5	10/5/2020 6:15:05 PM	A72400
Potassium	12	5.0		mg/L	5	10/5/2020 6:15:05 PM	A72400
Silver	ND	0.025		mg/L	5	10/5/2020 6:15:05 PM	A72400
Sodium	3300	50		mg/L	50	10/5/2020 6:16:56 PM	A72400
Zinc	ND	0.050		mg/L	5	10/5/2020 6:15:05 PM	A72400
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	1.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
Toluene	ND	1.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
Ethylbenzene	ND	1.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
Naphthalene	ND	2.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 3:33:27 AM	A72134
Xylenes, Total	ND	1.5		µg/L	1	9/25/2020 3:33:27 AM	A72134
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	9/25/2020 3:33:27 AM	A72134
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	9/25/2020 3:33:27 AM	A72134
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/25/2020 3:33:27 AM	A72134
Surr: Toluene-d8	92.6	70-130		%Rec	1	9/25/2020 3:33:27 AM	A72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 9/18/2020 2:35:00 PM

Lab ID: 2009B72-003

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Antimony	ND	0.010		mg/L	10	9/30/2020 4:26:28 PM	B72310
Arsenic	ND	0.010		mg/L	10	9/30/2020 4:26:28 PM	B72310
Lead	ND	0.0050		mg/L	10	9/30/2020 4:26:28 PM	B72310
Selenium	ND	0.010		mg/L	10	9/30/2020 4:26:28 PM	B72310
Thallium	ND	0.0050		mg/L	10	9/30/2020 5:44:37 PM	B72310
Uranium	0.017	0.0050		mg/L	10	9/30/2020 4:26:28 PM	B72310
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Fluoride	ND	0.50		mg/L	5	10/1/2020 4:21:26 PM	R72353
Chloride	13000	500		mg/L	1E+	10/3/2020 1:54:39 PM	R72383
Bromide	5.6	0.50		mg/L	5	10/1/2020 4:21:26 PM	R72353
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	10/1/2020 4:21:26 PM	R72353
Sulfate	2100	500		mg/L	1E+	10/3/2020 1:54:39 PM	R72383
Nitrate+Nitrite as N	ND	20		mg/L	100	10/3/2020 4:23:34 PM	R72383
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	52000	100		µmhos/c	10	9/25/2020 8:42:47 AM	R72166
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	327.8	20.00		mg/L Ca	1	9/24/2020 12:48:58 PM	R72131
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	9/24/2020 12:48:58 PM	R72131
Total Alkalinity (as CaCO <sub>3</sub> )	327.8	20.00		mg/L Ca	1	9/24/2020 12:48:58 PM	R72131
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	24900	200	*D	mg/L	1	9/24/2020 6:32:00 PM	55385
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.37		H	pH units	1	9/24/2020 12:48:58 PM	R72131
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Aluminum	ND	0.10		mg/L	5	10/7/2020 7:52:55 PM	B72487
Barium	0.038	0.010		mg/L	5	10/7/2020 7:52:55 PM	B72487
Beryllium	ND	0.010		mg/L	5	10/7/2020 7:52:55 PM	B72487
Boron	1.4	0.20		mg/L	5	10/7/2020 7:52:55 PM	B72487
Cadmium	ND	0.010		mg/L	5	10/7/2020 7:52:55 PM	B72487
Calcium	2000	100		mg/L	100	10/9/2020 1:21:05 PM	B72603
Chromium	ND	0.030		mg/L	5	10/7/2020 7:52:55 PM	B72487
Cobalt	ND	0.030		mg/L	5	10/7/2020 7:52:55 PM	B72487
Copper	ND	0.030		mg/L	5	10/7/2020 7:52:55 PM	B72487
Iron	ND	0.10		mg/L	5	10/7/2020 7:52:55 PM	B72487
Magnesium	700	100		mg/L	100	10/9/2020 1:21:05 PM	B72603
Manganese	0.79	0.010	*	mg/L	5	10/7/2020 7:52:55 PM	B72487

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 9/18/2020 2:35:00 PM

Lab ID: 2009B72-003

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Molybdenum	ND	0.040		mg/L	5	10/7/2020 7:52:55 PM	B72487
Nickel	ND	0.050		mg/L	5	10/7/2020 7:52:55 PM	B72487
Potassium	42	5.0		mg/L	5	10/7/2020 7:52:55 PM	B72487
Silver	ND	0.025		mg/L	5	10/7/2020 7:52:55 PM	B72487
Sodium	10000	500		mg/L	500	10/9/2020 1:23:11 PM	B72603
Zinc	ND	0.050		mg/L	5	10/7/2020 7:52:55 PM	B72487
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	2.0	1.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
Toluene	ND	1.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
Ethylbenzene	ND	1.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
Naphthalene	ND	2.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 4:01:52 AM	A72134
Xylenes, Total	ND	1.5		µg/L	1	9/25/2020 4:01:52 AM	A72134
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	9/25/2020 4:01:52 AM	A72134
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/25/2020 4:01:52 AM	A72134
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/25/2020 4:01:52 AM	A72134
Surr: Toluene-d8	96.5	70-130		%Rec	1	9/25/2020 4:01:52 AM	A72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 9/18/2020 2:00:00 PM

Lab ID: 2009B72-004

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Antimony	ND	0.010		mg/L	10	9/30/2020 4:29:04 PM	B72310
Arsenic	ND	0.010		mg/L	10	9/30/2020 4:29:04 PM	B72310
Lead	ND	0.0050		mg/L	10	9/30/2020 4:29:04 PM	B72310
Selenium	ND	0.010		mg/L	10	9/30/2020 4:29:04 PM	B72310
Thallium	ND	0.0050		mg/L	10	9/30/2020 5:47:13 PM	B72310
Uranium	0.011	0.0050		mg/L	10	9/30/2020 4:29:04 PM	B72310
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Fluoride	ND	2.0		mg/L	20	10/1/2020 4:58:39 PM	R72353
Chloride	3300	250		mg/L	500	10/3/2020 2:31:52 PM	R72383
Bromide	2.4	0.10		mg/L	1	10/1/2020 4:46:15 PM	R72353
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/1/2020 4:46:15 PM	R72353
Sulfate	2000	250		mg/L	500	10/3/2020 2:31:52 PM	R72383
Nitrate+Nitrite as N	ND	4.0		mg/L	20	10/5/2020 8:35:32 PM	A72418
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>JRR</b>
Conductivity	17000	50		µmhos/c	5	9/25/2020 8:45:37 AM	R72166
<b>SM2320B: ALKALINITY</b>							Analyst: <b>JRR</b>
Bicarbonate (As CaCO <sub>3</sub> )	252.6	20.00		mg/L Ca	1	9/24/2020 1:05:30 PM	R72131
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	9/24/2020 1:05:30 PM	R72131
Total Alkalinity (as CaCO <sub>3</sub> )	252.6	20.00		mg/L Ca	1	9/24/2020 1:05:30 PM	R72131
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	9840	40.0	*D	mg/L	1	9/24/2020 6:32:00 PM	55385
<b>SM4500-H+B / 9040C: PH</b>							Analyst: <b>JRR</b>
pH	7.46		H	pH units	1	9/24/2020 1:05:30 PM	R72131
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Aluminum	ND	0.10		mg/L	5	10/5/2020 6:28:09 PM	A72400
Barium	0.011	0.010		mg/L	5	10/5/2020 6:28:09 PM	A72400
Beryllium	ND	0.010		mg/L	5	10/5/2020 6:28:09 PM	A72400
Boron	0.36	0.20		mg/L	5	10/5/2020 6:28:09 PM	A72400
Cadmium	ND	0.010		mg/L	5	10/5/2020 6:28:09 PM	A72400
Calcium	680	50		mg/L	50	10/5/2020 6:30:01 PM	A72400
Chromium	ND	0.030		mg/L	5	10/5/2020 6:28:09 PM	A72400
Cobalt	ND	0.030		mg/L	5	10/5/2020 6:28:09 PM	A72400
Copper	ND	0.030		mg/L	5	10/5/2020 6:28:09 PM	A72400
Iron	ND	0.10		mg/L	5	10/5/2020 6:28:09 PM	A72400
Magnesium	410	5.0		mg/L	5	10/5/2020 6:28:09 PM	A72400
Manganese	0.070	0.010	*	mg/L	5	10/5/2020 6:28:09 PM	A72400

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 9/18/2020 2:00:00 PM

Lab ID: 2009B72-004

Matrix: AQUEOUS

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ags</b>
Molybdenum	ND	0.040		mg/L	5	10/5/2020 6:28:09 PM	A72400
Nickel	ND	0.050		mg/L	5	10/5/2020 6:28:09 PM	A72400
Potassium	8.4	5.0		mg/L	5	10/5/2020 6:28:09 PM	A72400
Silver	ND	0.025		mg/L	5	10/5/2020 6:28:09 PM	A72400
Sodium	1900	50		mg/L	50	10/5/2020 6:30:01 PM	A72400
Zinc	ND	0.050		mg/L	5	10/5/2020 6:28:09 PM	A72400
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	1.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
Toluene	ND	1.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
Ethylbenzene	ND	1.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
Naphthalene	ND	2.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 4:30:22 AM	A72134
Xylenes, Total	ND	1.5		µg/L	1	9/25/2020 4:30:22 AM	A72134
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	9/25/2020 4:30:22 AM	A72134
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/25/2020 4:30:22 AM	A72134
Surr: Dibromofluoromethane	110	70-130		%Rec	1	9/25/2020 4:30:22 AM	A72134
Surr: Toluene-d8	94.7	70-130		%Rec	1	9/25/2020 4:30:22 AM	A72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2009B72

Date Reported: 10/15/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: Trip Blank

Project: Scripps Pit

Collection Date:

Lab ID: 2009B72-005

Matrix: TRIP BLANK

Received Date: 9/19/2020 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>DJF</b>	
Benzene	ND	1.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
Toluene	ND	1.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
Ethylbenzene	ND	1.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
Naphthalene	ND	2.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
1-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
2-Methylnaphthalene	ND	4.0		µg/L	1	9/25/2020 5:56:23 AM	A72134
Xylenes, Total	ND	1.5		µg/L	1	9/25/2020 5:56:23 AM	A72134
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	9/25/2020 5:56:23 AM	A72134
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/25/2020 5:56:23 AM	A72134
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/25/2020 5:56:23 AM	A72134
Surr: Toluene-d8	97.3	70-130		%Rec	1	9/25/2020 5:56:23 AM	A72134

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-4		MW-3			
	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
<b>CATIONS</b>										
Sodium	4400	191.39	3300	143.54	10000	434.97	1900	82.64		
Potassium	7.1	0.18	12	0.31	42	1.07	8.4	0.21		
Calcium	2500	124.75	980	48.90	2000	99.80	680	33.93		
Magnesium	1900	156.38	520	42.80	700	57.61	410	33.74		
<b>Total Cations</b>		472.70		235.55		593.46		150.54		
<b>ANIONS</b>										
Sulfate	2000	41.64	2400	49.97	2100	43.72	2000	41.64		
Chloride	14000	394.92	5800	163.61	13000	366.71	3300	93.09		
Bicarbonate (CaCO3)	166.3	3.32	206	4.12	327.8	6.55	252.6	5.05		
Carbonate (CaCO3)										
Phosphate (P)										
Nitrite (N)	15	1.07			-					
Nitrate (N)										
Fluoride	14	0.18	3.5	0.04	5.6	0.07	2.40	0.03		
Bromide										
<b>Total Anions</b>		441.13		217.74		417.06		139.81		
Elect. Cond. (µMhos/cm)	57000		25000		52000		17000			
<b>CATION/ANION RATIO</b>		1.07		1.08		1.42		1.08		
% Difference		3		4		17		4		
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>										
TDS (measured)	31400		14100		24900		9840			
TDS (calculated)	24987		13139		28044		8452			
Ratio meas TDS:calc TDS		1.3		1.1		0.9		1.2		
Ratio Meas. TDS:EC		0.55		0.56		0.48		0.58		
Ratio Calc. TDS:EC		0.44		0.53		0.54		0.50		
Ratio of anion sum:EC		0.8		0.9		0.8		0.8		
Ratio of cation sum:EC		0.8		0.9		1.1		0.9		

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72

20-Aug-21

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB-A</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A72400</b>		RunNo: <b>72400</b>							
Prep Date:	Analysis Date: <b>10/5/2020</b>		SeqNo: <b>2539624</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: <b>LCS-A</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A72400</b>		RunNo: <b>72400</b>							
Prep Date:	Analysis Date: <b>10/5/2020</b>		SeqNo: <b>2539626</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.48	0.020	0.5000	0	96.7	85	115			
Barium	0.47	0.0020	0.5000	0	94.8	85	115			
Beryllium	0.49	0.0020	0.5000	0	98.1	85	115			
Boron	0.49	0.040	0.5000	0	97.1	85	115			
Cadmium	0.47	0.0020	0.5000	0	93.9	85	115			
Calcium	50	1.0	50.00	0	99.6	85	115			
Chromium	0.46	0.0060	0.5000	0	92.6	85	115			
Cobalt	0.45	0.0060	0.5000	0	90.9	85	115			
Copper	0.45	0.0060	0.5000	0	90.9	85	115			
Iron	0.47	0.020	0.5000	0	94.3	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Manganese	0.46	0.0020	0.5000	0	92.8	85	115			
Molybdenum	0.50	0.0080	0.5000	0	99.7	85	115			
Nickel	0.45	0.010	0.5000	0	89.6	85	115			
Potassium	49	1.0	50.00	0	98.6	85	115			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2009B72

20-Aug-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS-A</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>A72400</b>			RunNo: <b>72400</b>						
Prep Date:	Analysis Date: <b>10/5/2020</b>			SeqNo: <b>2539626</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.090	0.0050	0.1000	0	89.6	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			
Zinc	0.47	0.010	0.5000	0	94.2	85	115			

Sample ID: <b>MB-B</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>B72487</b>			RunNo: <b>72487</b>						
Prep Date:	Analysis Date: <b>10/7/2020</b>			SeqNo: <b>2543978</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: <b>LCS-B</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>B72487</b>			RunNo: <b>72487</b>						
Prep Date:	Analysis Date: <b>10/7/2020</b>			SeqNo: <b>2543980</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.48	0.020	0.5000	0	95.8	85	115			
Barium	0.49	0.0020	0.5000	0	98.5	85	115			
Beryllium	0.48	0.0020	0.5000	0	96.8	85	115			
Boron	0.51	0.040	0.5000	0	101	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.3	85	115			
Chromium	0.46	0.0060	0.5000	0	92.5	85	115			
Cobalt	0.47	0.0060	0.5000	0	94.3	85	115			
Copper	0.47	0.0060	0.5000	0	93.1	85	115			
Iron	0.48	0.020	0.5000	0	96.9	85	115			
Manganese	0.48	0.0020	0.5000	0	96.3	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 11 of 19

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2009B72

20-Aug-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS-B</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>B72487</b>			RunNo: <b>72487</b>						
Prep Date:	Analysis Date: <b>10/7/2020</b>			SeqNo: <b>2543980</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Molybdenum	0.50	0.0080	0.5000	0	101	85	115			
Nickel	0.46	0.010	0.5000	0	91.4	85	115			
Potassium	50	1.0	50.00	0	99.8	85	115			
Silver	0.094	0.0050	0.1000	0	94.2	85	115			
Zinc	0.50	0.010	0.5000	0	100	85	115			

Sample ID: <b>LCS-B</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>B72603</b>			RunNo: <b>72603</b>						
Prep Date:	Analysis Date: <b>10/9/2020</b>			SeqNo: <b>2549161</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	48	1.0	50.00	0	96.9	85	115			
Magnesium	49	1.0	50.00	0	98.5	85	115			
Sodium	50	1.0	50.00	0	99.6	85	115			

Sample ID: <b>MB-B</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>B72603</b>			RunNo: <b>72603</b>						
Prep Date:	Analysis Date: <b>10/9/2020</b>			SeqNo: <b>2549208</b>			Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Sodium	ND	1.0								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72  
20-Aug-21

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: MB		SampType: MBLK		TestCode: EPA 200.8: Dissolved Metals						
Client ID: PBW		Batch ID: B72310		RunNo: 72310						
Prep Date:		Analysis Date: 9/30/2020		SeqNo: 2536028		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00050								
Uranium	ND	0.00050								

Sample ID: LCS		SampType: LCS		TestCode: EPA 200.8: Dissolved Metals						
Client ID: LCSW		Batch ID: B72310		RunNo: 72310						
Prep Date:		Analysis Date: 9/30/2020		SeqNo: 2536030		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.022	0.0010	0.02500	0	89.2	85	115			
Arsenic	0.024	0.0010	0.02500	0	96.1	85	115			
Lead	0.011	0.00050	0.01250	0	90.9	85	115			
Selenium	0.022	0.0010	0.02500	0	88.3	85	115			
Thallium	0.011	0.00050	0.01250	0	91.0	85	115			
Uranium	0.011	0.00050	0.01250	0	86.1	85	115			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2009B72

20-Aug-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R72353</b>	RunNo: <b>72353</b>								
Prep Date:	Analysis Date: <b>10/1/2020</b>	SeqNo: <b>2537739</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R72353</b>	RunNo: <b>72353</b>								
Prep Date:	Analysis Date: <b>10/1/2020</b>	SeqNo: <b>2537740</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	95.8	90	110			
Bromide	2.4	0.10	2.500	0	94.9	90	110			
Phosphorus, Orthophosphate (As P)	4.5	0.50	5.000	0	90.8	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R72383</b>	RunNo: <b>72383</b>								
Prep Date:	Analysis Date: <b>10/3/2020</b>	SeqNo: <b>2539043</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R72383</b>	RunNo: <b>72383</b>								
Prep Date:	Analysis Date: <b>10/3/2020</b>	SeqNo: <b>2539044</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.5	90	110			
Sulfate	9.2	0.50	10.00	0	92.5	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	94.3	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A72418</b>	RunNo: <b>72418</b>								
Prep Date:	Analysis Date: <b>10/5/2020</b>	SeqNo: <b>2540557</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72  
20-Aug-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: LCS		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSW		Batch ID: A72418		RunNo: 72418						
Prep Date:		Analysis Date: 10/5/2020		SeqNo: 2540558		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.0	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2009B72

20-Aug-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A72134</b>		RunNo: <b>72134</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528415</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A72134</b>		RunNo: <b>72134</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528416</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	19	1.0	20.00	0	95.7	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72

20-Aug-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>Ics-1 99.2uS eC</b>		SampType: <b>Ics</b>			TestCode: <b>SM2510B: Specific Conductance</b>					
Client ID: <b>LCSW</b>		Batch ID: <b>R72166</b>			RunNo: <b>72166</b>					
Prep Date:		Analysis Date: <b>9/25/2020</b>			SeqNo: <b>2529530</b>		Units: <b>µmhos/cm</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	98	10	99.20	0	98.8	85	115			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72

20-Aug-21

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>mb-1 alk</b>	SampType: <b>mblk</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2527980</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-1 alk</b>	SampType: <b>lcs</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2527981</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.44	20.00	80.00	0	95.6	90	110			

Sample ID: <b>mb-2 alk</b>	SampType: <b>mblk</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528003</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-2 alk</b>	SampType: <b>lcs</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528004</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.80	20.00	80.00	0	97.3	90	110			

Sample ID: <b>mb-3 alk</b>	SampType: <b>mblk</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528026</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-3 alk</b>	SampType: <b>lcs</b>		TestCode: <b>SM2320B: Alkalinity</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R72131</b>		RunNo: <b>72131</b>							
Prep Date:	Analysis Date: <b>9/24/2020</b>		SeqNo: <b>2528027</b>		Units: <b>mg/L CaCO3</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.52	20.00	80.00	0	96.9	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009B72  
20-Aug-21

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: MB-55385	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 55385	RunNo: 72123								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2527546 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-55385	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 55385	RunNo: 72123								
Prep Date: 9/23/2020	Analysis Date: 9/24/2020	SeqNo: 2527547 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

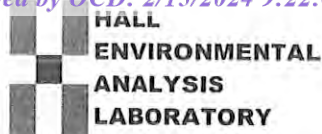
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 19



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2009B72**

RcptNo: 1

Received By: **Emily Mocho**

9/19/2020 7:30:00 AM

Completed By: **Emily Mocho**

9/19/2020 9:33:07 AM

Reviewed By: **JR 9/19/20**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 8  
( $<2$  or  $>12$  unless noted)

Adjusted? no

Checked by: CM 9/19/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.0	Good	Not Present			



<b>Chain-of-Custody Record</b>		Turn-Around Time: <u>5 day</u>
Client: <u>Safety &amp; Environmental Solutions</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>703 E Clinton</u>	Project Name: <u>COG, Quated Scripps Pt</u>	
<u>1600bs N.W. 88290</u>	Project #: <u>YAT-04-004</u>	
Phone #: <u>575-397-0510</u>		

Turn-Around Time:	5 day
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	COG, Gated Scripps Pt
Project #:	YAT-04-004

Project Manager: Boyer, Dave

Sampler: Joss Jarry

On Ice: ☒ Yes ☐ No

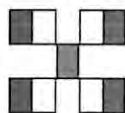
# of Coolers: 1

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 0.1-0.1-0.0			HEAL No.
				Container Type and #	Preservative Type	(°C)	
9/18	1300	fw	mw-1	6		2009B72	
9/18	1330	fw	mw-2	6		001	
9/18	1435	fw	mw-4	6		002	
9/18	1400	fw	mw-3	6		003	
						004	

[illegible]

Time:	Date:	Relinquished by:	Received by:	Via:	Date	Time
1530	9/18	Sen Jay	[Signature]		9/18/20	600
1900	9/18/20	[Signature]	[Signature]	2M Courier	9/19/20	7:30

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

[illegible]

Remarks:





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

July 20, 2021

Bob Allen  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX:

RE: Scripps Pit Delineation

OrderNo.: 2107475

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/10/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-5 4'  
Project: Scripps Pit Delineation      Collection Date: 5/19/2021 10:10:00 AM  
Lab ID: 2107475-001      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5700	300	H	mg/Kg	100	7/16/2021 4:28:05 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-1, N+100', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/19/2021 11:40:00 AM  
Lab ID: 2107475-002      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60	H	mg/Kg	20	7/15/2021 1:17:35 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-1, N+150', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/19/2021 12:55:00 PM  
Lab ID: 2107475-003      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1500	60	H	mg/Kg	20	7/15/2021 1:54:37 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-2, N+175', 5'E, 4'  
Project: Scripps Pit Delineation      Collection Date: 5/19/2021 1:50:00 PM  
Lab ID: 2107475-004      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3200	150	H	mg/Kg	50	7/16/2021 4:40:30 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-1, N+167' 4'  
Project: Scripps Pit Delineation      Collection Date: 5/19/2021 2:05:00 PM  
Lab ID: 2107475-005      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	970	60	H	mg/Kg	20	7/15/2021 2:19:19 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-4, N+200', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/20/2021 9:35:00 AM  
Lab ID: 2107475-006      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	150	H	mg/Kg	50	7/16/2021 4:52:54 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-3, 4'  
Project: Scripps Pit Delineation      Collection Date: 5/26/2021 10:05:00 AM  
Lab ID: 2107475-007      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	890	60	H	mg/Kg	20	7/15/2021 2:44:01 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-7, 4'  
Project: Scripps Pit Delineation      Collection Date: 5/26/2021 11:10:00 AM  
Lab ID: 2107475-008      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	60	H	mg/Kg	20	7/15/2021 2:56:23 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-8, 4'  
Project: Scripps Pit Delineation      Collection Date: 5/26/2021 11:25:00 AM  
Lab ID: 2107475-009      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	59	H	mg/Kg	20	7/15/2021 3:08:44 PM	61328

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-3, N+150', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/27/2021 9:40:00 AM  
Lab ID: 2107475-010      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60	H	mg/Kg	20	7/16/2021 10:05:46 AM	61340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-4, N+50', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/27/2021 9:55:00 AM  
Lab ID: 2107475-011      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60	H	mg/Kg	20	7/16/2021 9:38:28 AM	61363

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2107475  
Date Reported: 7/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: WT-4, N+150', 4'  
Project: Scripps Pit Delineation      Collection Date: 5/27/2021 10:15:00 AM  
Lab ID: 2107475-012      Matrix: SOIL      Received Date: 7/10/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	940	60	H	mg/Kg	20	7/16/2021 10:15:42 AM	61363

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2107475

20-Jul-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit Delineation

Sample ID: <b>MB-61328</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61328</b>	RunNo: <b>79816</b>								
Prep Date: <b>7/15/2021</b>	Analysis Date: <b>7/15/2021</b>	SeqNo: <b>2808816</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61328</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61328</b>	RunNo: <b>79816</b>								
Prep Date: <b>7/15/2021</b>	Analysis Date: <b>7/15/2021</b>	SeqNo: <b>2808817</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: <b>MB-61363</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61363</b>	RunNo: <b>79843</b>								
Prep Date: <b>7/16/2021</b>	Analysis Date: <b>7/16/2021</b>	SeqNo: <b>2809981</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61363</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61363</b>	RunNo: <b>79843</b>								
Prep Date: <b>7/16/2021</b>	Analysis Date: <b>7/16/2021</b>	SeqNo: <b>2809982</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Sample ID: <b>MB-61340</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61340</b>	RunNo: <b>79879</b>								
Prep Date: <b>7/15/2021</b>	Analysis Date: <b>7/16/2021</b>	SeqNo: <b>2810327</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

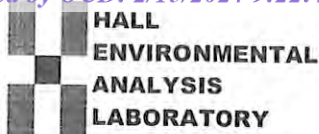
Sample ID: <b>LCS-61340</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61340</b>	RunNo: <b>79879</b>								
Prep Date: <b>7/15/2021</b>	Analysis Date: <b>7/16/2021</b>	SeqNo: <b>2810328</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2107475**

RcptNo: 1

Received By: **Cheyenne Cason** 7/10/2021 8:00:00 AM

Completed By: **Cheyenne Cason** 7/10/2021 9:58:45 AM

Reviewed By: **DAD 7/12/21**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *Car 7/10/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				









Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

August 20, 2021

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX (575) 393-4388

RE: EOG Scripps Pit

OrderNo.: 2108300

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/6/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 18, 2021.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2108300

Date Reported: 8/20/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: ET-1 ,8'

Project: EOG Scripps Pit

Collection Date: 5/19/2021 9:25:00 AM

Lab ID: 2108300-001

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	790	61	H	mg/Kg	20	8/13/2021 1:40:30 PM	61952
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	1900	95	H	mg/Kg	10	8/12/2021 7:37:40 PM	61890
Motor Oil Range Organics (MRO)	2500	480	H	mg/Kg	10	8/12/2021 7:37:40 PM	61890
Surr: DNOP	0	70-130	SH	%Rec	10	8/12/2021 7:37:40 PM	61890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	8/11/2021 8:57:00 PM	61883
Surr: BFB	95.1	70-130	H	%Rec	1	8/11/2021 8:57:00 PM	61883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024	H	mg/Kg	1	8/11/2021 8:57:00 PM	61883
Toluene	ND	0.047	H	mg/Kg	1	8/11/2021 8:57:00 PM	61883
Ethylbenzene	ND	0.047	H	mg/Kg	1	8/11/2021 8:57:00 PM	61883
Xylenes, Total	ND	0.095	H	mg/Kg	1	8/11/2021 8:57:00 PM	61883
Surr: 4-Bromofluorobenzene	91.8	70-130	H	%Rec	1	8/11/2021 8:57:00 PM	61883

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2108300

Date Reported: 8/20/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: ET-2 ,8'

Project: EOG Scripps Pit

Collection Date: 5/19/2021 9:40:00 AM

Lab ID: 2108300-002

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	6700	300	H	mg/Kg	100	8/16/2021 1:08:39 PM	61970
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	8900	460	H	mg/Kg	50	8/11/2021 1:44:56 PM	61890
Motor Oil Range Organics (MRO)	7100	2300	H	mg/Kg	50	8/11/2021 1:44:56 PM	61890
Surr: DNOP	0	70-130	SH	%Rec	50	8/11/2021 1:44:56 PM	61890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	8/11/2021 9:17:00 PM	61883
Surr: BFB	89.7	70-130	H	%Rec	1	8/11/2021 9:17:00 PM	61883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025	H	mg/Kg	1	8/11/2021 9:17:00 PM	61883
Toluene	ND	0.049	H	mg/Kg	1	8/11/2021 9:17:00 PM	61883
Ethylbenzene	ND	0.049	H	mg/Kg	1	8/11/2021 9:17:00 PM	61883
Xylenes, Total	ND	0.099	H	mg/Kg	1	8/11/2021 9:17:00 PM	61883
Surr: 4-Bromofluorobenzene	89.3	70-130	H	%Rec	1	8/11/2021 9:17:00 PM	61883

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2108300

Date Reported: 8/20/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: ET-3 ,8'

Project: EOG Scripps Pit

Collection Date: 5/19/2021 9:50:00 AM

Lab ID: 2108300-003

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	14000	600	H	mg/Kg	200	8/16/2021 1:21:04 PM	61970
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	16	9.2	H	mg/Kg	1	8/11/2021 10:15:19 AM	61890
Motor Oil Range Organics (MRO)	ND	46	H	mg/Kg	1	8/11/2021 10:15:19 AM	61890
Surr: DNOP	88.5	70-130	H	%Rec	1	8/11/2021 10:15:19 AM	61890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	8/11/2021 9:37:00 PM	61883
Surr: BFB	96.8	70-130	H	%Rec	1	8/11/2021 9:37:00 PM	61883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024	H	mg/Kg	1	8/11/2021 9:37:00 PM	61883
Toluene	ND	0.047	H	mg/Kg	1	8/11/2021 9:37:00 PM	61883
Ethylbenzene	ND	0.047	H	mg/Kg	1	8/11/2021 9:37:00 PM	61883
Xylenes, Total	ND	0.095	H	mg/Kg	1	8/11/2021 9:37:00 PM	61883
Surr: 4-Bromofluorobenzene	95.4	70-130	H	%Rec	1	8/11/2021 9:37:00 PM	61883

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2108300

Date Reported: 8/20/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: ET-1 , S+40,8'

Project: EOG Scripps Pit

Collection Date: 5/20/2021 10:25:00 AM

Lab ID: 2108300-004

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	83	60	H	mg/Kg	20	8/16/2021 12:31:24 PM	61970
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	3700	190	H	mg/Kg	20	8/11/2021 1:56:46 PM	61890
Motor Oil Range Organics (MRO)	3300	960	H	mg/Kg	20	8/11/2021 1:56:46 PM	61890
Surr: DNOP	0	70-130	SH	%Rec	20	8/11/2021 1:56:46 PM	61890
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	8/11/2021 9:57:00 PM	61883
Surr: BFB	90.2	70-130	H	%Rec	1	8/11/2021 9:57:00 PM	61883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023	H	mg/Kg	1	8/11/2021 9:57:00 PM	61883
Toluene	ND	0.047	H	mg/Kg	1	8/11/2021 9:57:00 PM	61883
Ethylbenzene	ND	0.047	H	mg/Kg	1	8/11/2021 9:57:00 PM	61883
Xylenes, Total	ND	0.094	H	mg/Kg	1	8/11/2021 9:57:00 PM	61883
Surr: 4-Bromofluorobenzene	89.5	70-130	H	%Rec	1	8/11/2021 9:57:00 PM	61883

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2108300  
Date Reported: 8/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-1 , N+50,4'  
Project: EOG Scripps Pit      Collection Date: 5/19/2021 10:45:00 AM  
Lab ID: 2108300-005      Matrix: SOIL      Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5300	300	H	mg/Kg	100	8/16/2021 1:33:28 PM	61970

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2108300  
Date Reported: 8/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-1 , N+50,8'  
Project: EOG Scripps Pit      Collection Date: 5/19/2021 10:50:00 AM  
Lab ID: 2108300-006      Matrix: SOIL      Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	12000	600	H	mg/Kg	200	8/16/2021 1:45:53 PM	61970

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

CLIENT: Safety & Environmental Solutions

Client Sample ID: ET-2 , N+50,4'

Project: EOG Scripps Pit

Collection Date: 5/19/2021 1:16:00 PM

Lab ID: 2108300-008

Matrix: SOIL

Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	7100	300	H	mg/Kg	100	8/13/2021 5:10:33 PM	61930

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2108300  
Date Reported: 8/20/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: ET-2 , N+50,8'  
Project: EOG Scripps Pit      Collection Date: 5/19/2021 1:20:00 PM  
Lab ID: 2108300-009      Matrix: SOIL      Received Date: 8/6/2021 7:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	18000	600	H	mg/Kg	200	8/13/2021 5:22:53 PM	61930

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108300

20-Aug-21

Client: Safety &amp; Environmental Solutions

Project: EOG Scripps Pit

Sample ID: <b>MB-61930</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61930</b>	RunNo: <b>80485</b>								
Prep Date: <b>8/12/2021</b>	Analysis Date: <b>8/12/2021</b>	SeqNo: <b>2837791</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61930</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61930</b>	RunNo: <b>80485</b>								
Prep Date: <b>8/12/2021</b>	Analysis Date: <b>8/12/2021</b>	SeqNo: <b>2837792</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

Sample ID: <b>MB-61952</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61952</b>	RunNo: <b>80531</b>								
Prep Date: <b>8/13/2021</b>	Analysis Date: <b>8/13/2021</b>	SeqNo: <b>2839734</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61952</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61952</b>	RunNo: <b>80531</b>								
Prep Date: <b>8/13/2021</b>	Analysis Date: <b>8/13/2021</b>	SeqNo: <b>2839735</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: <b>MB-61970</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61970</b>	RunNo: <b>80544</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/16/2021</b>	SeqNo: <b>2840900</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61970</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61970</b>	RunNo: <b>80544</b>								
Prep Date: <b>8/16/2021</b>	Analysis Date: <b>8/16/2021</b>	SeqNo: <b>2840901</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108300

20-Aug-21

Client: Safety & Environmental Solutions

Project: EOG Scripps Pit

Sample ID: MB-61890	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61890	RunNo: 80464								
Prep Date: 8/10/2021	Analysis Date: 8/11/2021	SeqNo: 2836424		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.0	70	130			

Sample ID: LCS-61890	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61890	RunNo: 80464								
Prep Date: 8/10/2021	Analysis Date: 8/11/2021	SeqNo: 2836425		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	68.9	141			
Surr: DNOP	4.9		5.000		97.3	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108300

20-Aug-21

Client: Safety & Environmental Solutions  
Project: EOG Scripps Pit

Sample ID: mb-61883	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch ID: 61883	RunNo: 80471									
Prep Date: 8/10/2021	Analysis Date: 8/11/2021	SeqNo: 2836833		Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	860		1000		85.7	70	130				

Sample ID: lcs-61883	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: 61883	RunNo: 80471									
Prep Date: 8/10/2021	Analysis Date: 8/11/2021	SeqNo: 2836868		Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	78.6	131				
Surr: BFB	990		1000		99.1	70	130				

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 12



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108300

20-Aug-21

**Client:** Safety & Environmental Solutions**Project:** EOG Scripps Pit

Sample ID: <b>mb-61883</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61883</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/10/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836912</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	70	130			

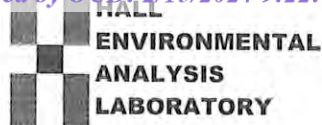
Sample ID: <b>lcs-61883</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61883</b>	RunNo: <b>80471</b>								
Prep Date: <b>8/10/2021</b>	Analysis Date: <b>8/11/2021</b>	SeqNo: <b>2836914</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.91	0.050	1.000	0	91.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2108300**

RcptNo: 1

Received By: **Cheyenne Cason**

8/6/2021 7:58:00 AM

Completed By: **Isaiah Ortiz**

8/6/2021 8:50:40 AM

Reviewed By: **KPG 8/6/21**

*Chad*  
*I-OK*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: **TMC 8-6-21**

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

June 14, 2021

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX

RE: Scripps Pit Site

OrderNo.: 2106330

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/7/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order: 2106330

Date Reported: 6/14/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Lab Order: 2106330

Project: Scripps Pit Site

Lab ID: 2106330-001

Collection Date: 5/19/2021 9:20:00 AM

Client Sample ID: ET1 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2900	150		mg/Kg	50	6/10/2021 11:47:44 PM	60519

Lab ID: 2106330-002

Collection Date: 5/19/2021 10:30:00 AM

Client Sample ID: ET5 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	8300	300		mg/Kg	100	6/11/2021 12:00:09 AM	60519

Lab ID: 2106330-003

Collection Date: 5/19/2021 1:40:00 PM

Client Sample ID: ET2, N+100', 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	150		mg/Kg	50	6/11/2021 12:12:33 AM	60519

Lab ID: 2106330-004

Collection Date: 5/20/2021 9:05:00 AM

Client Sample ID: ET4, N+100', 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2300	60		mg/Kg	20	6/9/2021 10:07:20 PM	60519

Lab ID: 2106330-005

Collection Date: 5/20/2021 10:20:00 AM

Client Sample ID: ET1, S+40', 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/9/2021 10:19:44 PM	60519

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order: 2106330

Date Reported: 6/14/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Lab Order: 2106330

Project: Scripps Pit Site

Lab ID: 2106330-006

Collection Date: 5/20/2021 11:20:00 AM

Client Sample ID: Background 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	720	60		mg/Kg	20	6/9/2021 10:32:08 PM	60519

Lab ID: 2106330-007

Collection Date: 5/26/2021 10:20:00 AM

Client Sample ID: WT4, 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1600	61		mg/Kg	20	6/9/2021 10:44:33 PM	60519

Lab ID: 2106330-008

Collection Date: 5/26/2021 11:40:00 AM

Client Sample ID: WT9, 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	6/9/2021 10:56:58 PM	60519

Lab ID: 2106330-009

Collection Date: 5/26/2021 1:30:00 PM

Client Sample ID: WT2, S+100', 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	6/9/2021 11:34:10 PM	60519

Lab ID: 2106330-010

Collection Date: 5/26/2021 2:45:00 PM

Client Sample ID: WT4, S+50', 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	370	60		mg/Kg	20	6/10/2021 12:11:25 AM	60519

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order: 2106330

Date Reported: 6/14/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Lab Order: 2106330

Project: Scripps Pit Site

Lab ID: 2106330-011

Collection Date: 5/27/2021 9:05:00 AM

Client Sample ID: WT2, N+150', 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	550	59		mg/Kg	20	6/10/2021 9:06:25 AM	60543

Lab ID: 2106330-012

Collection Date: 5/27/2021 10:05:00 AM

Client Sample ID: WT4, N+100', 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	850	60		mg/Kg	20	6/10/2021 9:18:50 AM	60543

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2106330

14-Jun-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit Site

Sample ID: <b>MB-60519</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60519</b>	RunNo: <b>78936</b>								
Prep Date: <b>6/9/2021</b>	Analysis Date: <b>6/9/2021</b>	SeqNo: <b>2770616</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-60519</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60519</b>	RunNo: <b>78936</b>								
Prep Date: <b>6/9/2021</b>	Analysis Date: <b>6/9/2021</b>	SeqNo: <b>2770617</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: <b>MB-60543</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60543</b>	RunNo: <b>79004</b>								
Prep Date: <b>6/10/2021</b>	Analysis Date: <b>6/10/2021</b>	SeqNo: <b>2771439</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-60543</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60543</b>	RunNo: <b>79004</b>								
Prep Date: <b>6/10/2021</b>	Analysis Date: <b>6/10/2021</b>	SeqNo: <b>2771440</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: <b>LCSB-60543</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60543</b>	RunNo: <b>79004</b>								
Prep Date: <b>6/10/2021</b>	Analysis Date: <b>6/10/2021</b>	SeqNo: <b>2771477</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.9	90	110			

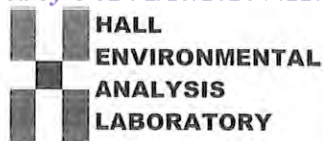
**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2106330**

RcptNo: 1

Received By: **Andy Freeman**

6/7/2021 11:15:00 AM

Completed By: **Sean Livingston**

6/7/2021 11:38:23 AM

Reviewed By:

JR 6/7/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not required
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *WPG 6/07/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.6	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

September 13, 2021

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL:  
FAX

RE: Scripps Pit

OrderNo.: 2108D37

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/25/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 8/24/2021 9:15:00 AM

Lab ID: 2108D37-001

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcb</b>
Antimony	ND	0.010		mg/L	10	9/8/2021 11:58:56 AM	B81103
Arsenic	ND	0.010		mg/L	10	9/8/2021 11:58:56 AM	B81103
Lead	ND	0.0050		mg/L	10	9/8/2021 11:58:56 AM	B81103
Selenium	0.076	0.010	*	mg/L	10	9/8/2021 11:58:56 AM	B81103
Thallium	ND	0.0025		mg/L	10	9/8/2021 11:58:56 AM	B81103
Uranium	0.055	0.0050	*	mg/L	10	9/8/2021 11:58:56 AM	B81103
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Fluoride	ND	2.0		mg/L	20	8/25/2021 6:29:45 PM	R80812
Chloride	12000	500	*	mg/L	1E+	8/31/2021 12:51:33 AM	A80904
Bromide	7.2	2.0		mg/L	20	8/25/2021 6:29:45 PM	R80812
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	8/25/2021 6:29:45 PM	R80812
Sulfate	6200	500	*	mg/L	1E+	8/31/2021 12:51:33 AM	A80904
Nitrate+Nitrite as N	16	10	*	mg/L	50	8/31/2021 11:30:59 AM	R80940
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>CAS</b>
Conductivity	51000	100		µmhos/c	10	8/30/2021 4:21:41 PM	R80910
<b>SM2320B: ALKALINITY</b>							Analyst: <b>CAS</b>
Bicarbonate (As CaCO <sub>3</sub> )	293.5	20.00		mg/L Ca	1	8/27/2021 2:39:01 PM	R80883
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	8/27/2021 2:39:01 PM	R80883
Total Alkalinity (as CaCO <sub>3</sub> )	293.5	20.00		mg/L Ca	1	8/27/2021 2:39:01 PM	R80883
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	31900	200	*D	mg/L	1	8/27/2021 10:36:00 AM	62211
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Aluminum	ND	0.20		mg/L	10	8/25/2021 12:45:01 PM	A80784
Barium	ND	0.020		mg/L	10	8/25/2021 12:45:01 PM	A80784
Beryllium	ND	0.020		mg/L	10	8/25/2021 12:45:01 PM	A80784
Boron	ND	0.40		mg/L	10	8/25/2021 12:45:01 PM	A80784
Cadmium	ND	0.020		mg/L	10	8/25/2021 12:45:01 PM	A80784
Calcium	900	10		mg/L	10	8/25/2021 12:45:01 PM	A80784
Chromium	ND	0.060		mg/L	10	8/25/2021 12:45:01 PM	A80784
Cobalt	ND	0.060		mg/L	10	8/25/2021 12:45:01 PM	A80784
Copper	ND	0.060		mg/L	10	8/25/2021 12:45:01 PM	A80784
Iron	ND	0.10		mg/L	5	8/25/2021 12:12:16 PM	A80784
Magnesium	1900	100		mg/L	100	8/25/2021 12:46:41 PM	A80784
Manganese	ND	0.020		mg/L	10	8/25/2021 12:45:01 PM	A80784
Molybdenum	ND	0.080		mg/L	10	8/25/2021 12:45:01 PM	A80784
Nickel	ND	0.10		mg/L	10	8/25/2021 12:45:01 PM	A80784
Potassium	6.4	5.0		mg/L	5	8/25/2021 12:12:16 PM	A80784

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 8/24/2021 9:15:00 AM

Lab ID: 2108D37-001

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Silver	ND	0.050		mg/L	10	8/25/2021 12:45:01 PM	A80784
Sodium	6200	100		mg/L	100	8/25/2021 12:46:41 PM	A80784
Zinc	ND	0.10		mg/L	10	8/25/2021 12:45:01 PM	A80784
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
Toluene	ND	1.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
Ethylbenzene	ND	1.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
Naphthalene	ND	2.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
1-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
2-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 3:26:00 AM	SL80817
Xylenes, Total	ND	1.5		µg/L	1	8/27/2021 3:26:00 AM	SL80817
Surr: 1,2-Dichloroethane-d4	83.7	70-130		%Rec	1	8/27/2021 3:26:00 AM	SL80817
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	8/27/2021 3:26:00 AM	SL80817
Surr: Dibromofluoromethane	83.9	70-130		%Rec	1	8/27/2021 3:26:00 AM	SL80817
Surr: Toluene-d8	98.7	70-130		%Rec	1	8/27/2021 3:26:00 AM	SL80817

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 8/24/2021 10:10:00 AM

Lab ID: 2108D37-002

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcb</b>
Antimony	ND	0.010		mg/L	10	9/8/2021 12:03:40 PM	B81103
Arsenic	ND	0.010		mg/L	10	9/8/2021 12:03:40 PM	B81103
Lead	ND	0.0050		mg/L	10	9/8/2021 12:03:40 PM	B81103
Selenium	0.017	0.010		mg/L	10	9/8/2021 12:03:40 PM	B81103
Thallium	ND	0.0025		mg/L	10	9/8/2021 12:03:40 PM	B81103
Uranium	0.012	0.0050		mg/L	10	9/8/2021 12:03:40 PM	B81103
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Fluoride	ND	2.0		mg/L	20	8/25/2021 6:55:30 PM	R80812
Chloride	8300	500	*	mg/L	1E+	8/31/2021 1:03:56 AM	A80904
Bromide	3.5	2.0		mg/L	20	8/25/2021 6:55:30 PM	R80812
Phosphorus, Orthophosphate (As P)	ND	10		mg/L	20	8/25/2021 6:55:30 PM	R80812
Sulfate	2400	500	*	mg/L	1E+	8/31/2021 1:03:56 AM	A80904
Nitrate+Nitrite as N	ND	10		mg/L	50	8/31/2021 11:43:19 AM	R80940
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>CAS</b>
Conductivity	37000	100		µmhos/c	10	8/30/2021 4:24:29 PM	R80910
<b>SM2320B: ALKALINITY</b>							Analyst: <b>CAS</b>
Bicarbonate (As CaCO <sub>3</sub> )	214.4	20.00		mg/L Ca	1	8/27/2021 2:55:12 PM	R80883
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	8/27/2021 2:55:12 PM	R80883
Total Alkalinity (as CaCO <sub>3</sub> )	214.4	20.00		mg/L Ca	1	8/27/2021 2:55:12 PM	R80883
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	20300	200	*D	mg/L	1	8/27/2021 10:36:00 AM	62211
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Aluminum	ND	0.10		mg/L	5	8/25/2021 12:15:29 PM	A80784
Barium	0.014	0.010		mg/L	5	8/25/2021 12:15:29 PM	A80784
Beryllium	ND	0.010		mg/L	5	8/25/2021 12:15:29 PM	A80784
Boron	0.57	0.20		mg/L	5	8/25/2021 12:15:29 PM	A80784
Cadmium	ND	0.010		mg/L	5	8/25/2021 12:15:29 PM	A80784
Calcium	940	20		mg/L	20	8/25/2021 12:53:26 PM	A80784
Chromium	ND	0.030		mg/L	5	8/25/2021 12:15:29 PM	A80784
Cobalt	ND	0.030		mg/L	5	8/25/2021 12:15:29 PM	A80784
Copper	ND	0.030		mg/L	5	8/25/2021 12:15:29 PM	A80784
Iron	ND	0.020		mg/L	1	8/25/2021 12:13:51 PM	A80784
Magnesium	500	20		mg/L	20	8/25/2021 12:53:26 PM	A80784
Manganese	0.021	0.010		mg/L	5	8/25/2021 12:15:29 PM	A80784
Molybdenum	ND	0.040		mg/L	5	8/25/2021 12:15:29 PM	A80784
Nickel	ND	0.050		mg/L	5	8/25/2021 12:15:29 PM	A80784
Potassium	19	1.0		mg/L	1	8/25/2021 12:13:51 PM	A80784

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2108D37  
Date Reported: 9/13/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-2  
Project: Scripps Pit      Collection Date: 8/24/2021 10:10:00 AM  
Lab ID: 2108D37-002      Matrix: AQUEOUS      Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS
Silver	ND	0.025		mg/L	5	8/25/2021 12:15:29 PM	A80784
Sodium	4700	100		mg/L	100	8/25/2021 12:55:09 PM	A80784
Zinc	ND	0.050		mg/L	5	8/25/2021 12:15:29 PM	A80784
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: CCM
Benzene	ND	1.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
Toluene	ND	1.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
Ethylbenzene	ND	1.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
Naphthalene	ND	2.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
1-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
2-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 3:49:00 AM	SL80817
Xylenes, Total	ND	1.5		µg/L	1	8/27/2021 3:49:00 AM	SL80817
Surr: 1,2-Dichloroethane-d4	83.1	70-130		%Rec	1	8/27/2021 3:49:00 AM	SL80817
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	8/27/2021 3:49:00 AM	SL80817
Surr: Dibromofluoromethane	81.9	70-130		%Rec	1	8/27/2021 3:49:00 AM	SL80817
Surr: Toluene-d8	97.6	70-130		%Rec	1	8/27/2021 3:49:00 AM	SL80817

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 8/24/2021 11:00:00 AM

Lab ID: 2108D37-003

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcb</b>
Antimony	ND	0.010		mg/L	10	9/8/2021 12:08:25 PM	B81103
Arsenic	ND	0.010		mg/L	10	9/8/2021 12:08:25 PM	B81103
Lead	ND	0.0050		mg/L	10	9/8/2021 12:08:25 PM	B81103
Selenium	ND	0.010		mg/L	10	9/8/2021 12:08:25 PM	B81103
Thallium	ND	0.0025		mg/L	10	9/8/2021 12:08:25 PM	B81103
Uranium	0.018	0.0050		mg/L	10	9/8/2021 12:08:25 PM	B81103
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Fluoride	ND	0.50		mg/L	5	8/25/2021 7:08:22 PM	R80812
Chloride	20000	1000	*	mg/L	2E+	8/31/2021 1:16:17 AM	A80904
Bromide	7.2	0.50		mg/L	5	8/25/2021 7:08:22 PM	R80812
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	8/25/2021 7:08:22 PM	R80812
Sulfate	2600	1000	*	mg/L	2E+	8/31/2021 1:16:17 AM	A80904
Nitrate+Nitrite as N	ND	20		mg/L	100	8/31/2021 11:55:40 AM	R80940
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>CAS</b>
Conductivity	76000	500		µmhos/c	50	8/30/2021 4:27:16 PM	R80910
<b>SM2320B: ALKALINITY</b>							Analyst: <b>CAS</b>
Bicarbonate (As CaCO <sub>3</sub> )	254.1	20.00		mg/L Ca	1	8/27/2021 3:12:34 PM	R80883
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	8/27/2021 3:12:34 PM	R80883
Total Alkalinity (as CaCO <sub>3</sub> )	254.1	20.00		mg/L Ca	1	8/27/2021 3:12:34 PM	R80883
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	40700	200	*D	mg/L	1	8/27/2021 10:36:00 AM	62211
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Aluminum	ND	0.10		mg/L	5	8/25/2021 12:18:47 PM	A80784
Barium	0.028	0.010		mg/L	5	8/25/2021 12:18:47 PM	A80784
Beryllium	ND	0.010		mg/L	5	8/25/2021 12:18:47 PM	A80784
Boron	1.3	0.20		mg/L	5	8/25/2021 12:18:47 PM	A80784
Cadmium	ND	0.010		mg/L	5	8/25/2021 12:18:47 PM	A80784
Calcium	2200	50		mg/L	50	8/25/2021 12:56:49 PM	A80784
Chromium	ND	0.030		mg/L	5	8/25/2021 12:18:47 PM	A80784
Cobalt	0.031	0.030		mg/L	5	8/25/2021 12:18:47 PM	A80784
Copper	ND	0.030		mg/L	5	8/25/2021 12:18:47 PM	A80784
Iron	ND	0.020		mg/L	1	8/25/2021 12:17:09 PM	A80784
Magnesium	690	50		mg/L	50	8/25/2021 12:56:49 PM	A80784
Manganese	0.43	0.010	*	mg/L	5	8/25/2021 12:18:47 PM	A80784
Molybdenum	ND	0.040		mg/L	5	8/25/2021 12:18:47 PM	A80784
Nickel	ND	0.050		mg/L	5	8/25/2021 12:18:47 PM	A80784
Potassium	43	1.0		mg/L	1	8/25/2021 12:17:09 PM	A80784

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2108D37  
Date Reported: 9/13/2021

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-4  
Project: Scripps Pit      Collection Date: 8/24/2021 11:00:00 AM  
Lab ID: 2108D37-003      Matrix: AQUEOUS      Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS							Analyst: ELS
Silver	ND	0.025		mg/L	5	8/25/2021 12:18:47 PM	A80784
Sodium	10000	200		mg/L	200	8/25/2021 12:58:30 PM	A80784
Zinc	ND	0.050		mg/L	5	8/25/2021 12:18:47 PM	A80784
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: CCM
Benzene	1.7	1.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
Toluene	ND	1.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
Ethylbenzene	ND	1.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
Naphthalene	ND	2.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
1-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
2-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 4:12:00 AM	SL80817
Xylenes, Total	ND	1.5		µg/L	1	8/27/2021 4:12:00 AM	SL80817
Surr: 1,2-Dichloroethane-d4	84.5	70-130		%Rec	1	8/27/2021 4:12:00 AM	SL80817
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	8/27/2021 4:12:00 AM	SL80817
Surr: Dibromofluoromethane	81.8	70-130		%Rec	1	8/27/2021 4:12:00 AM	SL80817
Surr: Toluene-d8	97.1	70-130		%Rec	1	8/27/2021 4:12:00 AM	SL80817

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 8/24/2021 11:55:00 AM

Lab ID: 2108D37-004

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA 200.8: DISSOLVED METALS</b>							Analyst: <b>bcv</b>
Antimony	ND	0.010		mg/L	10	9/8/2021 12:13:09 PM	B81103
Arsenic	ND	0.010		mg/L	10	9/8/2021 12:13:09 PM	B81103
Lead	ND	0.0050		mg/L	10	9/8/2021 12:13:09 PM	B81103
Selenium	ND	0.010		mg/L	10	9/8/2021 12:13:09 PM	B81103
Thallium	ND	0.0025		mg/L	10	9/8/2021 12:13:09 PM	B81103
Uranium	0.0073	0.0050		mg/L	10	9/8/2021 12:13:09 PM	B81103
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Fluoride	ND	2.0		mg/L	20	8/25/2021 7:46:59 PM	R80812
Chloride	3000	250	*	mg/L	500	8/31/2021 1:28:38 AM	A80904
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	8/25/2021 7:46:59 PM	R80812
Bromide	1.9	0.10		mg/L	1	8/25/2021 7:34:07 PM	R80812
Nitrogen, Nitrate (As N)	0.41	0.10		mg/L	1	8/25/2021 7:34:07 PM	R80812
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	8/25/2021 7:34:07 PM	R80812
Sulfate	1800	250	*	mg/L	500	8/31/2021 1:28:38 AM	A80904
<b>SM2510B: SPECIFIC CONDUCTANCE</b>							Analyst: <b>CAS</b>
Conductivity	16000	100		µmhos/c	10	8/30/2021 4:30:04 PM	R80910
<b>SM2320B: ALKALINITY</b>							Analyst: <b>CAS</b>
Bicarbonate (As CaCO <sub>3</sub> )	235.3	20.00		mg/L Ca	1	8/27/2021 3:27:49 PM	R80883
Carbonate (As CaCO <sub>3</sub> )	ND	2.000		mg/L Ca	1	8/27/2021 3:27:49 PM	R80883
Total Alkalinity (as CaCO <sub>3</sub> )	235.3	20.00		mg/L Ca	1	8/27/2021 3:27:49 PM	R80883
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	8450	200	*D	mg/L	1	8/27/2021 10:36:00 AM	62211
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Aluminum	ND	0.020		mg/L	1	8/25/2021 12:20:24 PM	A80784
Barium	0.014	0.0020		mg/L	1	8/25/2021 12:20:24 PM	A80784
Beryllium	ND	0.0020		mg/L	1	8/25/2021 12:20:24 PM	A80784
Boron	0.33	0.040		mg/L	1	8/25/2021 12:20:24 PM	A80784
Cadmium	ND	0.0020		mg/L	1	8/25/2021 12:20:24 PM	A80784
Calcium	610	20		mg/L	20	8/25/2021 1:00:08 PM	A80784
Chromium	ND	0.0060		mg/L	1	8/25/2021 12:20:24 PM	A80784
Cobalt	0.0064	0.0060		mg/L	1	8/25/2021 12:20:24 PM	A80784
Copper	ND	0.0060		mg/L	1	8/25/2021 12:20:24 PM	A80784
Iron	0.21	0.020		mg/L	1	8/25/2021 12:20:24 PM	A80784
Magnesium	360	5.0		mg/L	5	8/25/2021 12:22:07 PM	A80784
Manganese	0.14	0.0020	*	mg/L	1	8/25/2021 12:20:24 PM	A80784
Molybdenum	ND	0.0080		mg/L	1	8/25/2021 12:20:24 PM	A80784
Nickel	ND	0.010		mg/L	1	8/25/2021 12:20:24 PM	A80784

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2108D37

Date Reported: 9/13/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 8/24/2021 11:55:00 AM

Lab ID: 2108D37-004

Matrix: AQUEOUS

Received Date: 8/25/2021 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Potassium	9.5	1.0		mg/L	1	8/25/2021 12:20:24 PM	A80784
Silver	ND	0.0050		mg/L	1	8/25/2021 12:20:24 PM	A80784
Sodium	1800	20		mg/L	20	8/25/2021 1:00:08 PM	A80784
Zinc	0.022	0.010		mg/L	1	8/25/2021 12:20:24 PM	A80784
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
Toluene	ND	1.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
Ethylbenzene	ND	1.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
Naphthalene	ND	2.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
1-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
2-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2021 4:35:00 AM	SL80817
Xylenes, Total	ND	1.5		µg/L	1	8/27/2021 4:35:00 AM	SL80817
Surr: 1,2-Dichloroethane-d4	80.4	70-130		%Rec	1	8/27/2021 4:35:00 AM	SL80817
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	8/27/2021 4:35:00 AM	SL80817
Surr: Dibromofluoromethane	82.2	70-130		%Rec	1	8/27/2021 4:35:00 AM	SL80817
Surr: Toluene-d8	97.2	70-130		%Rec	1	8/27/2021 4:35:00 AM	SL80817

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-4		MW-3	
	2108D37-001		2108D37-002		2108D37-003		2108D37-004	
CATIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sodium	6200	269.68	4700	204.44	10000	434.97	1800	78.29
Potassium	6.4	0.16	19	0.49	43	1.10	9.5	0.24
Calcium	900	44.91	940	46.91	2200	109.78	610	30.44
Magnesium	1900	156.38	500	41.15	690	56.79	360	29.63
<b>Total Cations</b>		471.13		292.98		602.64		138.61
ANIONS	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
Sulfate	6200	129.09	2400	49.97	2600	54.13	1800	37.48
Chloride	12000	338.50	8300	234.13	20000	564.17	3000	84.63
Bicarbonate (CaCO <sub>3</sub> )	293.5	5.87	214.4	4.28	254.1	5.08	235.3	4.70
Carbonate (CaCO <sub>3</sub> )								
Phosphate (P)								
Nitrite (N)	16	1.14			-		0.41	0.03
Nitrate (N)								
Fluoride								
Bromide	7.2	0.09	3.5	0.04	7.2	0.09	1.90	0.02
<b>Total Anions</b>		474.69		288.43		623.48		126.86
Elect. Cond. (µMhos/cm)	51000		37000		76000		16000	
<b>CATION/ANION RATIO</b>		0.99		1.02		0.97		1.09
% Difference		0		1		2		4
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>								
TDS (measured)	31900		20300		40700		8450	
TDS (calculated)	27461		16991		35693		7724	
Ratio meas TDS:calc TDS		1.2		1.2		1.1		1.1
Ratio Meas. TDS:EC		0.63		0.55		0.54		0.53
Ratio Calc. TDS:EC		0.54		0.46		0.47		0.48
Ratio of anion sum:EC		0.9		0.8		0.8		0.8
Ratio of cation sum:EC		0.9		0.8		0.8		0.9

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9.  
 Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB		SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW		Batch ID: A80784		RunNo: 80784						
Prep Date:		Analysis Date: 8/25/2021		SeqNo: 2850386		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW		Batch ID: A80784		RunNo: 80784						
Prep Date:		Analysis Date: 8/25/2021		SeqNo: 2850388		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.56	0.020	0.5000	0	112	85	115			
Barium	0.49	0.0020	0.5000	0	98.0	85	115			
Beryllium	0.49	0.0020	0.5000	0	98.3	85	115			
Boron	0.51	0.040	0.5000	0	103	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.5	85	115			
Calcium	47	1.0	50.00	0	93.6	85	115			
Chromium	0.49	0.0060	0.5000	0	97.4	85	115			
Cobalt	0.48	0.0060	0.5000	0	95.9	85	115			
Copper	0.50	0.0060	0.5000	0	99.8	85	115			
Iron	0.49	0.020	0.5000	0	97.3	85	115			
Magnesium	48	1.0	50.00	0	95.2	85	115			
Manganese	0.49	0.0020	0.5000	0	97.5	85	115			
Molybdenum	0.49	0.0080	0.5000	0	98.9	85	115			
Nickel	0.47	0.010	0.5000	0	94.4	85	115			
Potassium	48	1.0	50.00	0	95.9	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37  
13-Sep-21

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: LCS		SampType: LCS			TestCode: EPA Method 200.7: Dissolved Metals					
Client ID: LCSW		Batch ID: A80784			RunNo: 80784					
Prep Date:		Analysis Date: 8/25/2021			SeqNo: 2850388		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.10	0.0050	0.1000	0	99.5	85	115			
Sodium	48	1.0	50.00	0	96.7	85	115			
Zinc	0.47	0.010	0.5000	0	94.9	85	115			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2108D37

13-Sep-21

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B81103</b>	RunNo: <b>81103</b>								
Prep Date:	Analysis Date: <b>9/8/2021</b>	SeqNo: <b>2864979</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00025								
Uranium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B81103</b>	RunNo: <b>81103</b>								
Prep Date:	Analysis Date: <b>9/8/2021</b>	SeqNo: <b>2864981</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Lead	0.013	0.00050	0.01250	0	100	85	115			
Selenium	0.025	0.0010	0.02500	0	102	85	115			
Thallium	0.012	0.00025	0.01250	0	99.1	85	115			
Uranium	0.012	0.00050	0.01250	0	98.0	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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## QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R80812</b>	RunNo: <b>80812</b>								
Prep Date:	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2851463</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R80812</b>	RunNo: <b>80812</b>								
Prep Date:	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2851464</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.6	90	110			
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	92.4	90	110			
Bromide	2.4	0.10	2.500	0	94.4	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.6	90	110			

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R80812</b>	RunNo: <b>80812</b>								
Prep Date:	Analysis Date: <b>8/25/2021</b>	SeqNo: <b>2851469</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.9	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.0	90	110			
Bromide	2.4	0.10	2.500	0	95.3	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.9	90	110			
Phosphorus, Orthophosphate (As P)	4.5	0.50	5.000	0	90.1	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A80904</b>	RunNo: <b>80904</b>								
Prep Date:	Analysis Date: <b>8/30/2021</b>	SeqNo: <b>2855528</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A80904</b>	RunNo: <b>80904</b>								
Prep Date:	Analysis Date: <b>8/30/2021</b>	SeqNo: <b>2855529</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**WO#: **2108D37****13-Sep-21****Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>A80904</b>			RunNo: <b>80904</b>						
Prep Date:	Analysis Date: <b>8/30/2021</b>			SeqNo: <b>2855529</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.8	90	110			
Sulfate	9.8	0.50	10.00	0	97.9	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R80940</b>			RunNo: <b>80940</b>						
Prep Date:	Analysis Date: <b>8/31/2021</b>			SeqNo: <b>2856832</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R80940</b>			RunNo: <b>80940</b>						
Prep Date:	Analysis Date: <b>8/31/2021</b>			SeqNo: <b>2856833</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.3	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: 100ng 8260 lcs2		SampType: LCS			TestCode: EPA Method 8260: Volatiles Short List					
Client ID: LCSW		Batch ID: SL80817			RunNo: 80817					
Prep Date:		Analysis Date: 8/26/2021			SeqNo: 2853035		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.6	70	130			
Toluene	20	1.0	20.00	0	99.0	70	130			
Surr: 1,2-Dichloroethane-d4	8.2		10.00		82.0	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.8	70	130			
Surr: Dibromofluoromethane	8.2		10.00		81.9	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	70	130			

Sample ID: mb2		SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List					
Client ID: PBW		Batch ID: SL80817			RunNo: 80817					
Prep Date:		Analysis Date: 8/26/2021			SeqNo: 2853036		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.0		10.00		80.1	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.0	70	130			
Surr: Dibromofluoromethane	8.0		10.00		79.7	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>Ics-1 98.7uS eC</b>		SampType: <b>Ics</b>		TestCode: <b>SM2510B: Specific Conductance</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>R80910</b>		RunNo: <b>80910</b>						
Prep Date:		Analysis Date: <b>8/30/2021</b>		SeqNo: <b>2855589</b>		Units: <b>µmhos/cm</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	98.70	0	102	85	115			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>mb-1 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R80883</b>	RunNo: <b>80883</b>								
Prep Date:	Analysis Date: <b>8/27/2021</b>	SeqNo: <b>2854313</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-1 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R80883</b>	RunNo: <b>80883</b>								
Prep Date:	Analysis Date: <b>8/27/2021</b>	SeqNo: <b>2854314</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79.76	20.00	80.00	0	99.7	90	110			

Sample ID: <b>mb-2 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R80883</b>	RunNo: <b>80883</b>								
Prep Date:	Analysis Date: <b>8/27/2021</b>	SeqNo: <b>2854337</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-2 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R80883</b>	RunNo: <b>80883</b>								
Prep Date:	Analysis Date: <b>8/27/2021</b>	SeqNo: <b>2854338</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80.08	20.00	80.00	0	100	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108D37

13-Sep-21

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-62211	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 62211	RunNo: 80862								
Prep Date: 8/26/2021	Analysis Date: 8/27/2021	SeqNo: 2853393		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-62211	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 62211	RunNo: 80862								
Prep Date: 8/26/2021	Analysis Date: 8/27/2021	SeqNo: 2853394		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2108D37

RcptNo: 1

Received By: Cheyenne Cason 8/25/2021 7:10:00 AM

Completed By: Sean Livingston 8/25/2021 9:05:48 AM

Reviewed By: *HPG 8/25/21*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: *8*  
(*<2* or *>12* unless noted)

Adjusted? *NO*

Checked by: *JR 8/25/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 18, 2022

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX (575) 393-4388

RE: Scripps Pit

OrderNo.: 2203C74

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 3/22/2022 1:00:00 PM

Lab ID: 2203C74-001

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JMT
Fluoride	ND	2.0		mg/L	20	3/26/2022 3:23:51 PM
Chloride	16000	1000	*	mg/L	2000	3/30/2022 11:47:43 PM
Bromide	12	5.0		mg/L	50	3/30/2022 11:41:38 AM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/26/2022 3:23:51 PM
Sulfate	3000	1000	*	mg/L	2000	3/30/2022 11:47:43 PM
Nitrate+Nitrite as N	20	20	*	mg/L	100	3/30/2022 1:36:59 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Aluminum	ND	0.10		mg/L	5	3/28/2022 2:29:10 PM
Barium	0.019	0.010		mg/L	5	3/28/2022 2:29:10 PM
Beryllium	ND	0.010		mg/L	5	3/28/2022 2:29:10 PM
Boron	0.29	0.20		mg/L	5	3/28/2022 2:29:10 PM
Cadmium	ND	0.010		mg/L	5	3/28/2022 2:29:10 PM
Calcium	1800	20		mg/L	20	3/28/2022 2:32:32 PM
Chromium	ND	0.030		mg/L	5	3/28/2022 2:29:10 PM
Cobalt	ND	0.030		mg/L	5	3/28/2022 2:29:10 PM
Iron	ND	0.10		mg/L	5	3/28/2022 2:29:10 PM
Magnesium	2200	100		mg/L	100	3/29/2022 11:42:26 AM
Manganese	ND	0.010		mg/L	5	3/28/2022 2:29:10 PM
Molybdenum	ND	0.040		mg/L	5	3/29/2022 11:40:50 AM
Nickel	ND	0.050		mg/L	5	3/28/2022 2:29:10 PM
Potassium	6.5	5.0		mg/L	5	3/28/2022 2:29:10 PM
Silver	ND	0.025		mg/L	5	3/28/2022 2:29:10 PM
Sodium	6400	100		mg/L	100	3/29/2022 11:42:26 AM
Zinc	ND	0.050		mg/L	5	3/28/2022 2:29:10 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.020		mg/L	20	3/30/2022 2:04:27 PM
Arsenic	ND	0.020		mg/L	20	3/30/2022 2:04:27 PM
Copper	ND	0.020		mg/L	20	3/30/2022 2:04:27 PM
Lead	ND	0.010		mg/L	20	3/30/2022 2:04:27 PM
Selenium	0.10	0.020	*	mg/L	20	3/30/2022 2:04:27 PM
Thallium	ND	0.0050		mg/L	20	3/30/2022 2:04:27 PM
Uranium	0.033	0.010	*	mg/L	20	3/30/2022 2:04:27 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: BRM
Benzene	ND	1.0		µg/L	1	3/30/2022 1:21:48 PM
Toluene	ND	1.0		µg/L	1	3/30/2022 1:21:48 PM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2022 1:21:48 PM
Naphthalene	ND	2.0		µg/L	1	3/30/2022 1:21:48 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 1:21:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2203C74  
Date Reported: 4/18/2022

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-1  
Project: Scripps Pit      Collection Date: 3/22/2022 1:00:00 PM  
Lab ID: 2203C74-001      Matrix: AQUEOUS      Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BRM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 1:21:48 PM
Xylenes, Total	ND	1.5		µg/L	1	3/30/2022 1:21:48 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/30/2022 1:21:48 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2022 1:21:48 PM
Surr: Dibromofluoromethane	98.6	70-130		%Rec	1	3/30/2022 1:21:48 PM
Surr: Toluene-d8	100	70-130		%Rec	1	3/30/2022 1:21:48 PM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MRA
Conductivity	54000	100		µmhos/c	10	3/31/2022 3:29:01 PM
SM4500-H+B / 9040C: PH						Analyst: LRN
pH	7.43		H	pH units	1	3/29/2022 2:57:35 PM
SM2320B: ALKALINITY						Analyst: LRN
Bicarbonate (As CaCO3)	213.7	20.00		mg/L Ca	1	3/29/2022 2:57:35 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/29/2022 2:57:35 PM
Total Alkalinity (as CaCO3)	213.7	20.00		mg/L Ca	1	3/29/2022 2:57:35 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	31900	100	*D	mg/L	1	3/31/2022 1:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/22/2022 1:35:00 PM

Lab ID: 2203C74-002

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JMT
Fluoride	ND	2.0		mg/L	20	3/26/2022 3:48:40 PM
Chloride	9000	500	*	mg/L	1000	3/30/2022 12:19:45 PM
Bromide	5.0	5.0		mg/L	50	3/30/2022 12:06:52 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/26/2022 3:48:40 PM
Sulfate	2400	500	*	mg/L	1000	3/30/2022 12:19:45 PM
Nitrate+Nitrite as N	ND	10		mg/L	50	3/30/2022 1:49:51 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Aluminum	ND	0.10		mg/L	5	3/28/2022 2:39:14 PM
Barium	0.012	0.010		mg/L	5	3/28/2022 2:39:14 PM
Beryllium	ND	0.010		mg/L	5	3/28/2022 2:39:14 PM
Boron	0.64	0.20		mg/L	5	3/28/2022 2:39:14 PM
Cadmium	ND	0.010		mg/L	5	3/28/2022 2:39:14 PM
Calcium	1100	20		mg/L	20	3/29/2022 11:45:44 AM
Chromium	ND	0.030		mg/L	5	3/28/2022 2:39:14 PM
Cobalt	ND	0.030		mg/L	5	3/28/2022 2:39:14 PM
Iron	ND	0.020		mg/L	1	3/25/2022 10:52:25 AM
Magnesium	560	10		mg/L	10	3/28/2022 2:40:57 PM
Manganese	0.015	0.010		mg/L	5	3/28/2022 2:39:14 PM
Molybdenum	ND	0.040		mg/L	5	3/29/2022 11:44:05 AM
Nickel	ND	0.050		mg/L	5	3/28/2022 2:39:14 PM
Potassium	21	1.0		mg/L	1	3/25/2022 10:52:25 AM
Silver	ND	0.025		mg/L	5	3/28/2022 2:39:14 PM
Sodium	6200	100		mg/L	100	3/29/2022 11:52:21 AM
Zinc	ND	0.050		mg/L	5	3/28/2022 2:39:14 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.0050		mg/L	5	3/28/2022 1:13:39 PM
Arsenic	ND	0.020		mg/L	20	3/30/2022 2:07:08 PM
Copper	ND	0.020		mg/L	20	3/30/2022 2:07:08 PM
Lead	ND	0.010		mg/L	20	3/30/2022 2:07:08 PM
Selenium	ND	0.020		mg/L	20	3/30/2022 2:07:08 PM
Thallium	ND	0.0050		mg/L	20	3/30/2022 2:07:08 PM
Uranium	0.011	0.010		mg/L	20	3/30/2022 2:07:08 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: BRM
Benzene	ND	1.0		µg/L	1	3/30/2022 1:48:48 PM
Toluene	ND	1.0		µg/L	1	3/30/2022 1:48:48 PM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2022 1:48:48 PM
Naphthalene	ND	2.0		µg/L	1	3/30/2022 1:48:48 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 1:48:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 3/22/2022 1:35:00 PM

Lab ID: 2203C74-002

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>BRM</b>
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 1:48:48 PM
Xylenes, Total	ND	1.5		µg/L	1	3/30/2022 1:48:48 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/30/2022 1:48:48 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2022 1:48:48 PM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	3/30/2022 1:48:48 PM
Surr: Toluene-d8	97.1	70-130		%Rec	1	3/30/2022 1:48:48 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: <b>MRA</b>
Conductivity	37000	100		µmhos/c	10	3/31/2022 3:32:00 PM
<b>SM4500-H+B / 9040C: PH</b>						Analyst: <b>LRN</b>
pH	7.50		H	pH units	1	3/29/2022 3:10:16 PM
<b>SM2320B: ALKALINITY</b>						Analyst: <b>LRN</b>
Bicarbonate (As CaCO3)	224.8	20.00		mg/L Ca	1	3/29/2022 3:10:16 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/29/2022 3:10:16 PM
Total Alkalinity (as CaCO3)	224.8	20.00		mg/L Ca	1	3/29/2022 3:10:16 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	21300	100	*D	mg/L	1	3/31/2022 1:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 3/22/2022 2:10:00 PM

Lab ID: 2203C74-003

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JMT
Fluoride	ND	2.0		mg/L	20	3/26/2022 4:13:30 PM
Chloride	3000	250	*	mg/L	500	3/30/2022 12:32:37 PM
Bromide	ND	2.0		mg/L	20	3/26/2022 4:13:30 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	3/26/2022 4:13:30 PM
Sulfate	1700	250	*	mg/L	500	3/30/2022 12:32:37 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	3/30/2022 2:02:43 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Aluminum	ND	0.10		mg/L	5	3/28/2022 2:44:20 PM
Barium	0.015	0.0020		mg/L	1	3/25/2022 10:54:05 AM
Beryllium	ND	0.0020		mg/L	1	3/25/2022 10:54:05 AM
Boron	0.32	0.040		mg/L	1	3/25/2022 10:54:05 AM
Cadmium	ND	0.0020		mg/L	1	3/25/2022 10:54:05 AM
Calcium	640	20		mg/L	20	3/28/2022 2:46:02 PM
Chromium	ND	0.0060		mg/L	1	3/25/2022 10:54:05 AM
Cobalt	0.0075	0.0060		mg/L	1	3/25/2022 10:54:05 AM
Iron	0.16	0.020		mg/L	1	3/25/2022 10:54:05 AM
Magnesium	400	5.0		mg/L	5	3/28/2022 2:44:20 PM
Manganese	0.085	0.0020	*	mg/L	1	3/25/2022 10:54:05 AM
Molybdenum	ND	0.0080		mg/L	1	3/25/2022 10:54:05 AM
Nickel	ND	0.010		mg/L	1	3/25/2022 10:54:05 AM
Potassium	9.6	1.0		mg/L	1	3/25/2022 10:54:05 AM
Silver	ND	0.0050		mg/L	1	3/25/2022 10:54:05 AM
Sodium	1800	20		mg/L	20	3/28/2022 2:46:02 PM
Zinc	0.014	0.010		mg/L	1	3/25/2022 10:54:05 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.0050		mg/L	5	3/28/2022 1:16:20 PM
Arsenic	ND	0.0050		mg/L	5	3/28/2022 1:16:20 PM
Copper	ND	0.0050		mg/L	5	3/28/2022 1:16:20 PM
Lead	ND	0.0025		mg/L	5	3/28/2022 1:16:20 PM
Selenium	0.013	0.0050		mg/L	5	3/28/2022 1:16:20 PM
Thallium	ND	0.0012		mg/L	5	3/28/2022 1:16:20 PM
Uranium	0.0069	0.0050		mg/L	10	3/30/2022 2:09:49 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: BRM
Benzene	ND	1.0		µg/L	1	3/30/2022 2:15:47 PM
Toluene	ND	1.0		µg/L	1	3/30/2022 2:15:47 PM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2022 2:15:47 PM
Naphthalene	ND	2.0		µg/L	1	3/30/2022 2:15:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 2:15:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

CLIENT: Safety & Environmental Solutions Client Sample ID: MW-3  
Project: Scripps Pit Collection Date: 3/22/2022 2:10:00 PM  
Lab ID: 2203C74-003 Matrix: AQUEOUS Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BRM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 2:15:47 PM
Xylenes, Total	ND	1.5		µg/L	1	3/30/2022 2:15:47 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%Rec	1	3/30/2022 2:15:47 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2022 2:15:47 PM
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	3/30/2022 2:15:47 PM
Surr: Toluene-d8	99.6	70-130		%Rec	1	3/30/2022 2:15:47 PM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: MRA
Conductivity	16000	100		µmhos/c	10	3/31/2022 3:34:58 PM
SM4500-H+B / 9040C: PH						Analyst: LRN
pH	7.63		H	pH units	1	3/29/2022 3:23:09 PM
SM2320B: ALKALINITY						Analyst: LRN
Bicarbonate (As CaCO3)	220.9	20.00		mg/L Ca	1	3/29/2022 3:23:09 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/29/2022 3:23:09 PM
Total Alkalinity (as CaCO3)	220.9	20.00		mg/L Ca	1	3/29/2022 3:23:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	8570	100	*D	mg/L	1	3/31/2022 1:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/22/2022 2:40:00 PM

Lab ID: 2203C74-004

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JMT
Fluoride	ND	2.0		mg/L	20	3/26/2022 4:38:20 PM
Chloride	18000	1000	*	mg/L	2000	3/31/2022 12:00:36 AM
Bromide	8.1	5.0		mg/L	50	3/30/2022 12:58:23 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	3/30/2022 12:58:23 PM
Sulfate	2700	1000	*	mg/L	2000	3/31/2022 12:00:36 AM
Nitrate+Nitrite as N	ND	20		mg/L	100	3/30/2022 2:15:35 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: ELS
Aluminum	ND	0.10		mg/L	5	3/28/2022 2:47:44 PM
Barium	0.021	0.010		mg/L	5	3/28/2022 2:47:44 PM
Beryllium	ND	0.010		mg/L	5	3/28/2022 2:47:44 PM
Boron	1.5	0.20		mg/L	5	3/28/2022 2:47:44 PM
Cadmium	ND	0.010		mg/L	5	3/28/2022 2:47:44 PM
Calcium	2100	50		mg/L	50	3/29/2022 11:55:40 AM
Chromium	ND	0.030		mg/L	5	3/28/2022 2:47:44 PM
Cobalt	ND	0.030		mg/L	5	3/28/2022 2:47:44 PM
Iron	ND	0.10		mg/L	5	3/28/2022 2:47:44 PM
Magnesium	690	10		mg/L	10	3/28/2022 2:49:20 PM
Manganese	0.66	0.010	*	mg/L	5	3/28/2022 2:47:44 PM
Molybdenum	ND	0.040		mg/L	5	3/29/2022 11:54:01 AM
Nickel	ND	0.050		mg/L	5	3/28/2022 2:47:44 PM
Potassium	37	5.0		mg/L	5	3/28/2022 2:47:44 PM
Silver	ND	0.025		mg/L	5	3/28/2022 2:47:44 PM
Sodium	10000	200		mg/L	200	3/29/2022 11:58:50 AM
Zinc	ND	0.050		mg/L	5	3/28/2022 2:47:44 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.020		mg/L	20	3/30/2022 2:12:31 PM
Arsenic	ND	0.020		mg/L	20	3/30/2022 2:12:31 PM
Copper	ND	0.020		mg/L	20	3/30/2022 2:12:31 PM
Lead	ND	0.010		mg/L	20	3/30/2022 2:12:31 PM
Selenium	ND	0.020		mg/L	20	3/30/2022 2:12:31 PM
Thallium	ND	0.0050		mg/L	20	3/30/2022 2:12:31 PM
Uranium	0.017	0.010		mg/L	20	3/30/2022 2:12:31 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: BRM
Benzene	19	1.0		µg/L	1	3/30/2022 2:42:34 PM
Toluene	ND	1.0		µg/L	1	3/30/2022 2:42:34 PM
Ethylbenzene	ND	1.0		µg/L	1	3/30/2022 2:42:34 PM
Naphthalene	ND	2.0		µg/L	1	3/30/2022 2:42:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 2:42:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2203C74

Date Reported: 4/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 3/22/2022 2:40:00 PM

Lab ID: 2203C74-004

Matrix: AQUEOUS

Received Date: 3/24/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: <b>BRM</b>
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2022 2:42:34 PM
Xylenes, Total	ND	1.5		µg/L	1	3/30/2022 2:42:34 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/30/2022 2:42:34 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2022 2:42:34 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	3/30/2022 2:42:34 PM
Surr: Toluene-d8	100	70-130		%Rec	1	3/30/2022 2:42:34 PM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: <b>MRA</b>
Conductivity	61000	100		µmhos/c	10	3/31/2022 3:37:55 PM
<b>SM4500-H+B / 9040C: PH</b>						Analyst: <b>LRN</b>
pH	7.24		H	pH units	1	3/29/2022 3:35:32 PM
<b>SM2320B: ALKALINITY</b>						Analyst: <b>LRN</b>
Bicarbonate (As CaCO3)	276.7	20.00		mg/L Ca	1	3/29/2022 3:35:32 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	3/29/2022 3:35:32 PM
Total Alkalinity (as CaCO3)	276.7	20.00		mg/L Ca	1	3/29/2022 3:35:32 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	36300	200	*D	mg/L	1	3/31/2022 1:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1		MW-2		MW-3		MW-4			
	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
<b>CATIONS</b>										
Sodium	6400	278.38	6200	269.68	1800	78.29	10000	434.97		
Potassium	6.5	0.17	21	0.54	9.6	0.25	37	0.95		
Calcium	1800	89.82	1100	54.89	640	31.94	2100	104.79		
Magnesium	2200	181.07	560	46.09	400	32.92	690	56.79		
<b>Total Cations</b>		549.44		371.20		143.40		597.50		
<b>ANIONS</b>										
Sulfate	3000	62.46	2400	49.97	1700	35.39	2700	56.21		
Chloride	16000	451.34	9000	253.88	3000	84.63	18000	507.76		
Bicarbonate (CaCO <sub>3</sub> )	213.7	4.27	224.8	4.49	220.9	4.41	276.7	5.53		
Carbonate (CaCO <sub>3</sub> )										
Phosphate (P)										
Nitrite (N)	20	1.43			-					
Nitrate (N)										
Fluoride										
Bromide	12	0.15	5.0	0.06			8.1	0.10		
<b>Total Anions</b>		519.65		308.40		124.44		569.60		
Elect. Cond. (µMhos/cm)	54000		37000		16000		61000			
<b>CATION/ANION RATIO</b>		1.06		1.20		1.15		1.05		
% Difference		3		9		7		2		
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>										
TDS (measured)	31900		21300		8570		36300			
TDS (calculated)	29635		19421		7682		33701			
Ratio meas TDS:calc TDS		1.1		1.1		1.1		1.1		
Ratio Meas. TDS:EC		0.59		0.58		0.54		0.60		
Ratio Calc. TDS:EC		0.55		0.52		0.48		0.55		
Ratio of anion sum:EC		1.0		0.8		0.8		0.9		
Ratio of cation sum:EC		1.0		1.0		0.9		1.0		

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2203C74

18-Apr-22

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A86746</b>	RunNo: <b>86746</b>								
Prep Date:	Analysis Date: <b>3/25/2022</b>	SeqNo: <b>3062954</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A86746</b>	RunNo: <b>86746</b>								
Prep Date:	Analysis Date: <b>3/25/2022</b>	SeqNo: <b>3062958</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.5	85	115			
Beryllium	0.51	0.0020	0.5000	0	101	85	115			
Boron	0.52	0.040	0.5000	0	104	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.5	85	115			
Chromium	0.50	0.0060	0.5000	0	99.8	85	115			
Cobalt	0.50	0.0060	0.5000	0	99.3	85	115			
Iron	0.50	0.020	0.5000	0	101	85	115			
Manganese	0.49	0.0020	0.5000	0	97.9	85	115			
Molybdenum	0.50	0.0080	0.5000	0	99.9	85	115			
Nickel	0.49	0.010	0.5000	0	97.1	85	115			
Potassium	50	1.0	50.00	0	99.3	85	115			
Silver	0.099	0.0050	0.1000	0	98.5	85	115			
Zinc	0.50	0.010	0.5000	0	101	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 200.7: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B86796</b>	RunNo: <b>86796</b>								
Prep Date:	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064891</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB		SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW		Batch ID: B86796		RunNo: 86796						
Prep Date:		Analysis Date: 3/28/2022		SeqNo: 3064891		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: LCS		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW		Batch ID: B86796		RunNo: 86796						
Prep Date:		Analysis Date: 3/28/2022		SeqNo: 3064895		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	101	85	115			
Beryllium	0.52	0.0020	0.5000	0	105	85	115			
Boron	0.52	0.040	0.5000	0	105	85	115			
Cadmium	0.49	0.0020	0.5000	0	98.8	85	115			
Calcium	52	1.0	50.00	0	103	85	115			
Chromium	0.49	0.0060	0.5000	0	97.6	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.6	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Magnesium	52	1.0	50.00	0	105	85	115			
Manganese	0.50	0.0020	0.5000	0	99.9	85	115			
Nickel	0.47	0.010	0.5000	0	94.9	85	115			
Potassium	51	1.0	50.00	0	103	85	115			
Silver	0.099	0.0050	0.1000	0	98.6	85	115			
Sodium	52	1.0	50.00	0	103	85	115			
Zinc	0.52	0.010	0.5000	0	104	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2203C74

18-Apr-22

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>B86796</b>		RunNo: <b>86796</b>							
Prep Date:	Analysis Date: <b>3/28/2022</b>		SeqNo: <b>3064951</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.50	0.020	0.5000	0	101	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>PBW</b>	Batch ID: <b>A86825</b>		RunNo: <b>86825</b>							
Prep Date:	Analysis Date: <b>3/29/2022</b>		SeqNo: <b>3066292</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Molybdenum	ND	0.0080								
Sodium	ND	1.0								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 200.7: Dissolved Metals</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>A86825</b>		RunNo: <b>86825</b>							
Prep Date:	Analysis Date: <b>3/29/2022</b>		SeqNo: <b>3066296</b>		Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	97.4	85	115			
Magnesium	50	1.0	50.00	0	99.1	85	115			
Molybdenum	0.50	0.0080	0.5000	0	101	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
E Estimated value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B86786</b>	RunNo: <b>86786</b>								
Prep Date:	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064501</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00025								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B86786</b>	RunNo: <b>86786</b>								
Prep Date:	Analysis Date: <b>3/28/2022</b>	SeqNo: <b>3064503</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	100	85	115			
Arsenic	0.026	0.0010	0.02500	0	106	85	115			
Copper	0.026	0.0010	0.02500	0	103	85	115			
Lead	0.013	0.00050	0.01250	0	104	85	115			
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Thallium	0.013	0.00025	0.01250	0	104	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>B86848</b>	RunNo: <b>86848</b>								
Prep Date:	Analysis Date: <b>3/30/2022</b>	SeqNo: <b>3069428</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00025								
Uranium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>B86848</b>	RunNo: <b>86848</b>								
Prep Date:	Analysis Date: <b>3/30/2022</b>	SeqNo: <b>3069430</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	95.8	85	115			
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Copper	0.025	0.0010	0.02500	0	98.5	85	115			

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
E Estimated value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: LCS		SampType: LCS			TestCode: EPA 200.8: Dissolved Metals					
Client ID: LCSW		Batch ID: B86848			RunNo: 86848					
Prep Date:		Analysis Date: 3/30/2022			SeqNo: 3069430		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.012	0.00050	0.01250	0	98.4	85	115			
Selenium	0.025	0.0010	0.02500	0	99.4	85	115			
Thallium	0.012	0.00025	0.01250	0	99.4	85	115			
Uranium	0.011	0.00050	0.01250	0	88.7	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 13 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R86791	RunNo: 86791								
Prep Date:	Analysis Date: 3/26/2022	SeqNo: 3064696 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R86791	RunNo: 86791								
Prep Date:	Analysis Date: 3/26/2022	SeqNo: 3064697 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Bromide	2.5	0.10	2.500	0	98.1	90	110			
Phosphorus, Orthophosphate (As P	4.5	0.50	5.000	0	90.6	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R86883	RunNo: 86883								
Prep Date:	Analysis Date: 3/30/2022	SeqNo: 3069589 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R86883	RunNo: 86883								
Prep Date:	Analysis Date: 3/30/2022	SeqNo: 3069590 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.5	90	110			
Bromide	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.6	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 18

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: 100ng lcs		SampType: LCS				TestCode: EPA Method 8260: Volatiles Short List				
Client ID: LCSW		Batch ID: B86862				RunNo: 86862				
Prep Date:		Analysis Date: 3/30/2022				SeqNo: 3068138		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.7	70	130			
Toluene	20	1.0	20.00	0	98.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.0		10.00		89.8	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: mb		SampType: MBLK				TestCode: EPA Method 8260: Volatiles Short List				
Client ID: PBW		Batch ID: B86862				RunNo: 86862				
Prep Date:		Analysis Date: 3/30/2022				SeqNo: 3068154		Units: µg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.9	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 18



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>Ics-1 100.2uS eC</b>		SampType: <b>Ics</b>		TestCode: <b>SM2510B: Specific Conductance</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>R86894</b>		RunNo: <b>86894</b>						
Prep Date:		Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3069794</b>		Units: <b>µmhos/cm</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.2	0	100	85	115			

Sample ID: <b>Ics-2 100.2uS eC</b>		SampType: <b>Ics</b>		TestCode: <b>SM2510B: Specific Conductance</b>						
Client ID: <b>LCSW</b>		Batch ID: <b>R86894</b>		RunNo: <b>86894</b>						
Prep Date:		Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3069819</b>		Units: <b>µmhos/cm</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	100.2	0	101	85	115			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74

18-Apr-22

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>mb-1 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86834</b>	RunNo: <b>86834</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066986</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-1 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86834</b>	RunNo: <b>86834</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3066987</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	73.00	20.00	80.00	0	91.2	90	110			

Sample ID: <b>mb-2 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R86834</b>	RunNo: <b>86834</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067009</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-2 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R86834</b>	RunNo: <b>86834</b>								
Prep Date:	Analysis Date: <b>3/29/2022</b>	SeqNo: <b>3067010</b>	Units: <b>mg/L CaCO3</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	72.56	20.00	80.00	0	90.7	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2203C74  
18-Apr-22

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: MB-66464	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 66464	RunNo: 86882								
Prep Date: 3/29/2022	Analysis Date: 3/31/2022	SeqNo: 3069504		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-66464	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 66464	RunNo: 86882								
Prep Date: 3/29/2022	Analysis Date: 3/31/2022	SeqNo: 3069505		Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

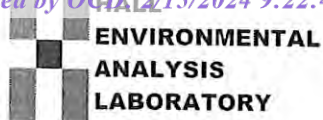
Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



## Sample Log-In Check List

Client Name: Safety &amp; Environmental Solutions

Work Order Number: 2203C74

RcptNo: 1

Received By: Cheyenne Cason 3/24/2022 7:30:00 AM

Completed By: Sean Livingston 3/24/2022 8:35:15 AM

Reviewed By: *AKG* 3/24/22
*Chad*  
*Sean Livingston*
Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☒ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: 8  
(~~2~~ or  $>12$  unless noted)

Adjusted? noChecked by: TME 3/24/22Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good				
2	4.4	Good				



## Chain-of-Custody Record

Client: Solutia Environmental  
 Mailing Address: Solutia Environmental  
703 E. Clinton  
St. Louis, MO  
 Phone #: 515-397-0510  
 email or Fax#:

QA/QC Package:  
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance  
☐ NELAC ☐ Other

☐ EDD (Type)

Date	Time	Matrix	Sample Name
03/22	1300	H2O	MW-1
03/22	1335	H2O	MW-2
03/22	1410	H2O	MW-3
03/22	1440	H2O	MW-4

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: EOG

Schapps Pt.

Project #: UAT-04-004

Project Manager:

Boyer, Dave

Sampler:

Boyer, Dave

On Ice: ☒ Yes ☐ No

# of Coolers: 2 3.6-0.1=3.5

Cooler Temp (including CF): 4.5-0.1=4.4 (°C)

Container Type and #

Preservative Type

HEAL No.

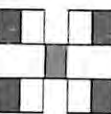
6 Ice 2203074

6 HNO3 001

6 H2SO4 002

6 H2SO4 003

6 H2SO4 004



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

BTEX / MTBE / TMB's (8021)  
 TPH:8015D(GRO / DRO / MRO)  
 8081 Pesticides/8082 PCB's  
 EDB (Method 504.1)  
 PAHs by 8310 or 8270SIMS  
 RCRA 8 Metals  
 Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
 8260 (VOA)  
 8270 (Semi-VOA)  
 Total Coliform (Present/Absent)

BTEX, Naphthalenes  
 Ugon, Dissolved Metals  
 (AT) Metals, Arsenic  
 TDS, Fed Balance  
 Lab P/d.

Received by: Cue Carr Date: 3/24/22 Time: 0730

Received by: Cue Carr Date: 3/24/22 Time: 0730

Remarks: Bill EOG Direct

ATTN: Chase Settle



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

September 08, 2022

Dave Boyer  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX: (575) 393-4388

RE: Scripps Pit

OrderNo.: 2208428

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/6/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 8/3/2022 1:00:00 PM

Lab ID: 2208428-001

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JTT
Fluoride	ND	2.0		mg/L	20	8/9/2022 2:11:00 PM
Chloride	14000	1000	*	mg/L	2000	8/13/2022 4:29:52 PM
Bromide	14	2.0		mg/L	20	8/9/2022 2:11:00 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	8/9/2022 2:11:00 PM
Sulfate	2400	50	*	mg/L	100	8/13/2022 4:17:00 PM
Nitrate+Nitrite as N	20	10	*	mg/L	50	8/13/2022 7:29:54 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JRR
Aluminum	ND	0.020		mg/L	1	8/22/2022 1:44:12 PM
Barium	0.028	0.0020		mg/L	1	8/22/2022 1:44:12 PM
Beryllium	ND	0.0020		mg/L	1	8/22/2022 1:44:12 PM
Boron	0.24	0.040		mg/L	1	8/22/2022 1:44:12 PM
Cadmium	ND	0.0020		mg/L	1	8/22/2022 1:44:12 PM
Calcium	2300	100		mg/L	100	8/23/2022 3:54:22 PM
Chromium	ND	0.0060		mg/L	1	8/22/2022 1:44:12 PM
Cobalt	ND	0.0060		mg/L	1	8/22/2022 1:44:12 PM
Iron	ND	0.020		mg/L	1	8/22/2022 1:44:12 PM
Magnesium	2100	100		mg/L	100	8/23/2022 3:54:22 PM
Manganese	ND	0.0020		mg/L	1	8/22/2022 1:44:12 PM
Molybdenum	ND	0.0080		mg/L	1	8/22/2022 1:44:12 PM
Nickel	ND	0.010		mg/L	1	8/22/2022 1:44:12 PM
Potassium	6.5	1.0		mg/L	1	8/22/2022 1:44:12 PM
Silver	0.038	0.0050		mg/L	1	8/22/2022 1:44:12 PM
Sodium	5100	100		mg/L	100	8/23/2022 3:54:22 PM
Zinc	0.098	0.010		mg/L	1	8/22/2022 1:44:12 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.010		mg/L	10	8/10/2022 4:28:56 PM
Arsenic	ND	0.010		mg/L	10	8/10/2022 4:28:56 PM
Copper	ND	0.010		mg/L	10	8/10/2022 4:28:56 PM
Lead	ND	0.0050		mg/L	10	8/9/2022 5:44:44 PM
Selenium	0.11	0.010	*	mg/L	10	8/10/2022 4:28:56 PM
Thallium	ND	0.0025		mg/L	10	8/9/2022 5:44:44 PM
Uranium	0.035	0.0050	*	mg/L	10	8/10/2022 4:28:56 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
Benzene	ND	1.0		µg/L	1	8/11/2022 2:20:14 AM
Toluene	ND	1.0		µg/L	1	8/11/2022 2:20:14 AM
Ethylbenzene	ND	1.0		µg/L	1	8/11/2022 2:20:14 AM
Naphthalene	ND	2.0		µg/L	1	8/11/2022 2:20:14 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 2:20:14 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-1

Project: Scripps Pit

Collection Date: 8/3/2022 1:00:00 PM

Lab ID: 2208428-001

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
2-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 2:20:14 AM
Xylenes, Total	ND	1.5		µg/L	1	8/11/2022 2:20:14 AM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	8/11/2022 2:20:14 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	8/11/2022 2:20:14 AM
Surr: Dibromofluoromethane	122	70-130		%Rec	1	8/11/2022 2:20:14 AM
Surr: Toluene-d8	101	70-130		%Rec	1	8/11/2022 2:20:14 AM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: CAS
Conductivity	58000	100		µmhos/c	10	8/11/2022 2:29:27 PM
<b>SM4500-H+B / 9040C: PH</b>						Analyst: CAS
pH	7.09		H	pH units	1	8/12/2022 2:05:31 PM
<b>SM2320B: ALKALINITY</b>						Analyst: CAS
Bicarbonate (As CaCO3)	186.7	20.00		mg/L Ca	1	8/12/2022 2:05:31 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	8/12/2022 2:05:31 PM
Total Alkalinity (as CaCO3)	186.7	20.00		mg/L Ca	1	8/12/2022 2:05:31 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	36900	2000	*D	mg/L	1	8/11/2022 3:41:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 8/3/2022 1:40:00 PM

Lab ID: 2208428-002

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JTT
Fluoride	ND	2.0		mg/L	20	8/9/2022 3:02:30 PM
Chloride	8200	500	*	mg/L	1000	8/13/2022 4:55:35 PM
Bromide	5.2	2.0		mg/L	20	8/9/2022 3:02:30 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	8/9/2022 3:02:30 PM
Sulfate	2900	50	*	mg/L	100	8/13/2022 4:42:43 PM
Nitrate+Nitrite as N	ND	10		mg/L	50	8/13/2022 7:42:46 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JRR
Aluminum	ND	0.020		mg/L	1	8/22/2022 1:48:50 PM
Barium	0.015	0.0020		mg/L	1	8/22/2022 1:48:50 PM
Beryllium	ND	0.0020		mg/L	1	8/22/2022 1:48:50 PM
Boron	0.61	0.040		mg/L	1	8/22/2022 1:48:50 PM
Cadmium	ND	0.0020		mg/L	1	8/22/2022 1:48:50 PM
Calcium	1100	100		mg/L	100	8/23/2022 3:56:35 PM
Chromium	ND	0.0060		mg/L	1	8/22/2022 1:48:50 PM
Cobalt	ND	0.0060		mg/L	1	8/22/2022 1:48:50 PM
Iron	0.086	0.020		mg/L	1	8/22/2022 1:48:50 PM
Magnesium	540	100		mg/L	100	8/23/2022 3:56:35 PM
Manganese	0.024	0.0020		mg/L	1	8/22/2022 1:48:50 PM
Molybdenum	ND	0.0080		mg/L	1	8/22/2022 1:48:50 PM
Nickel	ND	0.010		mg/L	1	8/22/2022 1:48:50 PM
Potassium	16	1.0		mg/L	1	8/22/2022 1:48:50 PM
Silver	0.020	0.0050		mg/L	1	8/22/2022 1:48:50 PM
Sodium	5300	100		mg/L	100	8/23/2022 3:56:35 PM
Zinc	0.052	0.010		mg/L	1	8/22/2022 1:48:50 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.010		mg/L	10	8/9/2022 5:47:26 PM
Arsenic	ND	0.010		mg/L	10	8/10/2022 4:31:38 PM
Copper	ND	0.010		mg/L	10	8/10/2022 4:31:38 PM
Lead	ND	0.0050		mg/L	10	8/9/2022 5:47:26 PM
Selenium	0.014	0.010		mg/L	10	8/10/2022 4:31:38 PM
Thallium	ND	0.0025		mg/L	10	8/9/2022 5:47:26 PM
Uranium	0.013	0.0050		mg/L	10	8/10/2022 4:31:38 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
Benzene	ND	1.0		µg/L	1	8/11/2022 2:48:49 AM
Toluene	ND	1.0		µg/L	1	8/11/2022 2:48:49 AM
Ethylbenzene	ND	1.0		µg/L	1	8/11/2022 2:48:49 AM
Naphthalene	ND	2.0		µg/L	1	8/11/2022 2:48:49 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 2:48:49 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-2

Project: Scripps Pit

Collection Date: 8/3/2022 1:40:00 PM

Lab ID: 2208428-002

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
2-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 2:48:49 AM
Xylenes, Total	ND	1.5		µg/L	1	8/11/2022 2:48:49 AM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	8/11/2022 2:48:49 AM
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	8/11/2022 2:48:49 AM
Surr: Dibromofluoromethane	120	70-130		%Rec	1	8/11/2022 2:48:49 AM
Surr: Toluene-d8	103	70-130		%Rec	1	8/11/2022 2:48:49 AM
<b>SM2510B: SPECIFIC CONDUCTANCE</b>						Analyst: CAS
Conductivity	37000	100		µmhos/c	10	8/11/2022 2:32:15 PM
<b>SM4500-H+B / 9040C: PH</b>						Analyst: CAS
pH	7.30		H	pH units	1	8/12/2022 2:17:32 PM
<b>SM2320B: ALKALINITY</b>						Analyst: CAS
Bicarbonate (As CaCO3)	220.2	20.00		mg/L Ca	1	8/12/2022 2:17:32 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	8/12/2022 2:17:32 PM
Total Alkalinity (as CaCO3)	220.2	20.00		mg/L Ca	1	8/12/2022 2:17:32 PM
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: KS
Total Dissolved Solids	18700	2000	*D	mg/L	1	8/11/2022 3:41:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-3

Project: Scripps Pit

Collection Date: 8/3/2022 2:15:00 PM

Lab ID: 2208428-003

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JTT
Fluoride	ND	2.0		mg/L	20	8/9/2022 3:28:14 PM
Chloride	3400	250	*	mg/L	500	8/13/2022 5:21:18 PM
Bromide	2.6	2.0		mg/L	20	8/9/2022 3:28:14 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	8/9/2022 3:28:14 PM
Sulfate	2000	50	*	mg/L	100	8/13/2022 5:08:26 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	8/13/2022 7:55:39 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JRR
Aluminum	ND	0.020		mg/L	1	8/22/2022 1:53:14 PM
Barium	0.014	0.0020		mg/L	1	8/22/2022 1:53:14 PM
Beryllium	ND	0.0020		mg/L	1	8/22/2022 1:53:14 PM
Boron	0.29	0.040		mg/L	1	8/22/2022 1:53:14 PM
Cadmium	ND	0.0020		mg/L	1	8/22/2022 1:53:14 PM
Calcium	650	100		mg/L	100	8/23/2022 3:58:40 PM
Chromium	ND	0.0060		mg/L	1	8/22/2022 1:53:14 PM
Cobalt	ND	0.0060		mg/L	1	8/22/2022 1:53:14 PM
Iron	0.086	0.020		mg/L	1	8/22/2022 1:53:14 PM
Magnesium	380	5.0		mg/L	5	8/22/2022 2:04:46 PM
Manganese	0.065	0.0020	*	mg/L	1	8/22/2022 1:53:14 PM
Molybdenum	ND	0.0080		mg/L	1	8/22/2022 1:53:14 PM
Nickel	ND	0.010		mg/L	1	8/22/2022 1:53:14 PM
Potassium	8.7	1.0		mg/L	1	8/22/2022 1:53:14 PM
Silver	0.013	0.0050		mg/L	1	8/22/2022 1:53:14 PM
Sodium	2000	100		mg/L	100	8/23/2022 3:58:40 PM
Zinc	0.025	0.010		mg/L	1	8/22/2022 1:53:14 PM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.0050		mg/L	5	8/9/2022 5:50:07 PM
Arsenic	ND	0.010		mg/L	10	8/10/2022 4:34:19 PM
Copper	ND	0.010		mg/L	10	8/10/2022 4:34:19 PM
Lead	ND	0.0025		mg/L	5	8/9/2022 5:50:07 PM
Selenium	0.014	0.010		mg/L	10	8/10/2022 4:34:19 PM
Thallium	ND	0.0012		mg/L	5	8/9/2022 5:50:07 PM
Uranium	0.0085	0.0050		mg/L	10	8/10/2022 4:34:19 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
Benzene	ND	1.0		µg/L	1	8/11/2022 3:17:25 AM
Toluene	ND	1.0		µg/L	1	8/11/2022 3:17:25 AM
Ethylbenzene	ND	1.0		µg/L	1	8/11/2022 3:17:25 AM
Naphthalene	ND	2.0		µg/L	1	8/11/2022 3:17:25 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 3:17:25 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2208428  
Date Reported: 9/8/2022

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-3  
Project: Scripps Pit      Collection Date: 8/3/2022 2:15:00 PM  
Lab ID: 2208428-003      Matrix: AQUEOUS      Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JR
2-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 3:17:25 AM
Xylenes, Total	ND	1.5		µg/L	1	8/11/2022 3:17:25 AM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	8/11/2022 3:17:25 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	8/11/2022 3:17:25 AM
Surr: Dibromofluoromethane	118	70-130		%Rec	1	8/11/2022 3:17:25 AM
Surr: Toluene-d8	106	70-130		%Rec	1	8/11/2022 3:17:25 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	18000	100		µmhos/c	10	8/11/2022 2:35:03 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.45		H	pH units	1	8/12/2022 2:30:24 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO3)	224.6	20.00		mg/L Ca	1	8/12/2022 2:30:24 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	8/12/2022 2:30:24 PM
Total Alkalinity (as CaCO3)	224.6	20.00		mg/L Ca	1	8/12/2022 2:30:24 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	10600	200	*D	mg/L	1	8/11/2022 3:41:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2208428

Date Reported: 9/8/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: MW-4

Project: Scripps Pit

Collection Date: 8/3/2022 3:05:00 PM

Lab ID: 2208428-004

Matrix: AQUEOUS

Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JTT
Fluoride	ND	2.0		mg/L	20	8/9/2022 3:53:58 PM
Chloride	18000	1000	*	mg/L	2000	8/13/2022 5:47:00 PM
Bromide	13	2.0		mg/L	20	8/9/2022 3:53:58 PM
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	8/9/2022 3:53:58 PM
Sulfate	2600	100	*	mg/L	200	8/13/2022 5:34:09 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	8/24/2022 9:00:56 PM
<b>EPA METHOD 200.7: DISSOLVED METALS</b>						Analyst: JRR
Aluminum	ND	0.20		mg/L	10	8/23/2022 10:23:48 AM
Barium	0.027	0.020		mg/L	10	8/23/2022 10:23:48 AM
Beryllium	ND	0.020		mg/L	10	8/23/2022 10:23:48 AM
Boron	1.1	0.40		mg/L	10	8/23/2022 10:23:48 AM
Cadmium	ND	0.020		mg/L	10	8/23/2022 10:23:48 AM
Calcium	2500	100		mg/L	100	8/23/2022 10:26:01 AM
Chromium	ND	0.060		mg/L	10	8/23/2022 10:23:48 AM
Cobalt	ND	0.060		mg/L	10	8/23/2022 10:23:48 AM
Iron	ND	0.20		mg/L	10	8/23/2022 10:23:48 AM
Magnesium	860	10		mg/L	10	8/23/2022 10:23:48 AM
Manganese	0.16	0.020	*	mg/L	10	8/23/2022 10:23:48 AM
Molybdenum	ND	0.080		mg/L	10	8/23/2022 10:23:48 AM
Nickel	ND	0.10		mg/L	10	8/23/2022 10:23:48 AM
Potassium	24	10		mg/L	10	8/23/2022 10:23:48 AM
Silver	ND	0.050		mg/L	10	8/23/2022 10:23:48 AM
Sodium	9600	100		mg/L	100	8/23/2022 10:26:01 AM
Zinc	0.25	0.10		mg/L	10	8/23/2022 10:23:48 AM
<b>EPA 200.8: DISSOLVED METALS</b>						Analyst: bcv
Antimony	ND	0.020		mg/L	20	8/10/2022 4:39:42 PM
Arsenic	ND	0.020		mg/L	20	8/10/2022 4:39:42 PM
Copper	ND	0.020		mg/L	20	8/10/2022 4:39:42 PM
Lead	ND	0.010		mg/L	20	8/10/2022 4:39:42 PM
Selenium	ND	0.020		mg/L	20	8/10/2022 4:39:42 PM
Thallium	ND	0.0050		mg/L	20	8/10/2022 4:39:42 PM
Uranium	0.017	0.010		mg/L	20	8/10/2022 4:39:42 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: JR
Benzene	5.6	1.0		µg/L	1	8/11/2022 3:46:02 AM
Toluene	ND	1.0		µg/L	1	8/11/2022 3:46:02 AM
Ethylbenzene	ND	1.0		µg/L	1	8/11/2022 3:46:02 AM
Naphthalene	ND	2.0		µg/L	1	8/11/2022 3:46:02 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 3:46:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix interference

B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
Lab Order 2208428  
Date Reported: 9/8/2022

CLIENT: Safety & Environmental Solutions      Client Sample ID: MW-4  
Project: Scripps Pit      Collection Date: 8/3/2022 3:05:00 PM  
Lab ID: 2208428-004      Matrix: AQUEOUS      Received Date: 8/6/2022 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: JR
2-Methylnaphthalene	ND	4.0		µg/L	1	8/11/2022 3:46:02 AM
Xylenes, Total	ND	1.5		µg/L	1	8/11/2022 3:46:02 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	8/11/2022 3:46:02 AM
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	8/11/2022 3:46:02 AM
Surr: Dibromofluoromethane	119	70-130		%Rec	1	8/11/2022 3:46:02 AM
Surr: Toluene-d8	103	70-130		%Rec	1	8/11/2022 3:46:02 AM
SM2510B: SPECIFIC CONDUCTANCE						Analyst: CAS
Conductivity	74000	500		µmhos/c	50	8/11/2022 2:37:51 PM
SM4500-H+B / 9040C: PH						Analyst: CAS
pH	7.08		H	pH units	1	8/12/2022 2:42:47 PM
SM2320B: ALKALINITY						Analyst: CAS
Bicarbonate (As CaCO3)	251.5	20.00		mg/L Ca	1	8/12/2022 2:42:47 PM
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	8/12/2022 2:42:47 PM
Total Alkalinity (as CaCO3)	251.5	20.00		mg/L Ca	1	8/12/2022 2:42:47 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	38000	2000	*D	mg/L	1	8/11/2022 3:41:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

## CATION/ANION BALANCE SHEET FOR WATER ANALYSES

HEAL LAB NUMBER	MW-1	MW-2	MW-3	MW-4	
2208428-001	2208428-002	2208428-003	2208428-004		
<b>CATIONS</b>	mg/L meq/L	mg/L meq/L	mg/L meq/L	mg/L meq/L	mg/L meq/L
Sodium	5100 221.84	5300 230.54	2000 86.99	9600 417.57	
Potassium	6.5 0.17	16 0.41	8.7 0.22	24 0.61	
Calcium	2300 114.77	1100 54.89	650 32.44	2500 124.75	
Magnesium	2100 172.84	540 44.44	380 31.28	860 70.78	
<b>Total Cations</b>	509.61	330.28	150.93	613.72	
<b>ANIONS</b>	mg/L meq/L	mg/L meq/L	mg/L meq/L	mg/L meq/L	mg/L meq/L
Sulfate	2400 49.97	2900 60.38	2000 41.64	2600 54.13	
Chloride	14000 394.92	8200 231.31	3400 95.91	18000 507.76	
Bicarbonate (CaCO3)	186.7 3.73	220.2 4.40	224.6 4.49	251.5 5.03	
Carbonate (CaCO3)					
Phosphate (P)					
Nitrite (N)					
Nitrate (N)	20 1.43		-		
Fluoride					
Bromide	14 0.18	5.2 0.07	2.6 0.03	13 0.16	
<b>Total Anions</b>	450.22	296.16	142.07	567.08	
Elect. Cond. (µMhos/cm)	58000	37000	18000	74000	
<b>CATION/ANION RATIO</b>	1.13	1.12	1.06	1.08	
% Difference	6	5	3	4	
<b>TOTAL DISSOLVED SOLIDS RATIOS</b>					
TDS (measured)	36900	18700	10600	38000	
TDS (calculated)	26121	18193	8576	33748	
Ratio meas TDS:calc TDS	1.4	1.0	1.2	1.1	
Ratio Meas. TDS:EC	0.64	0.51	0.59	0.51	
Ratio Calc. TDS:EC	0.45	0.49	0.48	0.46	
Ratio of anion sum:EC	0.8	0.8	0.8	0.8	
Ratio of cation sum:EC	0.9	0.9	0.8	0.8	

\* Analyte not detected (below method detection limit).

\*\* Values below 0.55 can be obtained in waters containing appreciable concentrations of free acid or alkalinity, or not within pH 6 to 9. Values much higher than 0.7 are possible in highly saline waters.

**GENERALLY ACCEPTED RANGES**

Cation/Anion balance: 0-3 meq/L- 0.2 meq/L, 3-10 meq/L- 2%, &gt;10 meq/L - 5%

Ratio measured TDS:calculated TDS -- 1.0-1.2. Ratio Calculated TDS:EC -- 0.55-0.7. Ratio Measured TDS:EC--0.55-0.7. Ratio of anion sum:EC -- 0.9-1.1.

Ratio of cation sum:EC -- 0.9-1.1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-B		SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW		Batch ID: B90470		RunNo: 90470						
Prep Date:		Analysis Date: 8/22/2022		SeqNo: 3229006		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID: LCS-B		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW		Batch ID: B90470		RunNo: 90470						
Prep Date:		Analysis Date: 8/22/2022		SeqNo: 3229008		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.55	0.020	0.5000	0	110	85	115			
Barium	0.50	0.0020	0.5000	0	100	85	115			
Beryllium	0.49	0.0020	0.5000	0	98.7	85	115			
Boron	0.50	0.040	0.5000	0	101	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.5	85	115			
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Cobalt	0.48	0.0060	0.5000	0	96.9	85	115			
Iron	0.50	0.020	0.5000	0	99.8	85	115			
Magnesium	52	1.0	50.00	0	104	85	115			
Manganese	0.49	0.0020	0.5000	0	98.6	85	115			
Molybdenum	0.49	0.0080	0.5000	0	97.3	85	115			
Nickel	0.50	0.010	0.5000	0	99.0	85	115			
Potassium	51	1.0	50.00	0	103	85	115			
Silver	0.11	0.0050	0.1000	0	106	85	115			
Zinc	0.49	0.010	0.5000	0	98.0	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 18



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-A		SampType: MBLK		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: PBW		Batch ID: A90525		RunNo: 90525						
Prep Date:		Analysis Date: 8/23/2022		SeqNo: 3232956		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Boron	ND	0.040								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Cobalt	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Molybdenum	ND	0.0080								
Nickel	ND	0.010								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID: LCS-A		SampType: LCS		TestCode: EPA Method 200.7: Dissolved Metals						
Client ID: LCSW		Batch ID: A90525		RunNo: 90525						
Prep Date:		Analysis Date: 8/23/2022		SeqNo: 3232958		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.55	0.020	0.5000	0	110	85	115			
Barium	0.50	0.0020	0.5000	0	99.3	85	115			
Beryllium	0.49	0.0020	0.5000	0	98.0	85	115			
Boron	0.50	0.040	0.5000	0	99.3	85	115			
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	50	1.0	50.00	0	101	85	115			
Chromium	0.50	0.0060	0.5000	0	100	85	115			
Cobalt	0.49	0.0060	0.5000	0	98.3	85	115			
Iron	0.50	0.020	0.5000	0	100	85	115			
Magnesium	50	1.0	50.00	0	99.8	85	115			
Manganese	0.49	0.0020	0.5000	0	97.3	85	115			
Molybdenum	0.48	0.0080	0.5000	0	95.8	85	115			
Nickel	0.50	0.010	0.5000	0	100	85	115			
Potassium	49	1.0	50.00	0	97.7	85	115			
Silver	0.10	0.0050	0.1000	0	102	85	115			
Sodium	50	1.0	50.00	0	99.0	85	115			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 18

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208428

08-Sep-22

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>LCS-A</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>A90525</b>			RunNo: <b>90525</b>						
Prep Date:	Analysis Date: <b>8/23/2022</b>			SeqNo: <b>3232958</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Zinc	0.50	0.010	0.5000	0	99.5	85	115			

Sample ID: <b>MB-C</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>PBW</b>	Batch ID: <b>C90525</b>			RunNo: <b>90525</b>						
Prep Date:	Analysis Date: <b>8/23/2022</b>			SeqNo: <b>3234015</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Sodium	ND	1.0								

Sample ID: <b>LCS-C</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 200.7: Dissolved Metals</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>C90525</b>			RunNo: <b>90525</b>						
Prep Date:	Analysis Date: <b>8/23/2022</b>			SeqNo: <b>3234017</b>		Units: <b>mg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	101	85	115			
Magnesium	50	1.0	50.00	0	100	85	115			
Sodium	50	1.0	50.00	0	99.9	85	115			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
E Estimated value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>D90122</b>	RunNo: <b>90122</b>								
Prep Date:	Analysis Date: <b>8/9/2022</b>	SeqNo: <b>3213434</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Lead	ND	0.00050								
Thallium	ND	0.00025								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>D90122</b>	RunNo: <b>90122</b>								
Prep Date:	Analysis Date: <b>8/9/2022</b>	SeqNo: <b>3213436</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	98.7	85	115			
Lead	0.012	0.00050	0.01250	0	94.3	85	115			
Thallium	0.012	0.00025	0.01250	0	94.0	85	115			

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>A90171</b>	RunNo: <b>90171</b>								
Prep Date:	Analysis Date: <b>8/10/2022</b>	SeqNo: <b>3215045</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Copper	ND	0.0010								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00025								
Uranium	ND	0.00050								

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA 200.8: Dissolved Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>A90171</b>	RunNo: <b>90171</b>								
Prep Date:	Analysis Date: <b>8/10/2022</b>	SeqNo: <b>3215047</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	100	85	115			
Arsenic	0.025	0.0010	0.02500	0	100	85	115			
Copper	0.025	0.0010	0.02500	0	98.6	85	115			
Lead	0.012	0.00050	0.01250	0	97.6	85	115			
Selenium	0.025	0.0010	0.02500	0	101	85	115			
Thallium	0.012	0.00025	0.01250	0	97.2	85	115			
Uranium	0.012	0.00050	0.01250	0	95.6	85	115			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety &amp; Environmental Solutions

Project: Scripps Pit

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90139</b>	RunNo: <b>90139</b>								
Prep Date:	Analysis Date: <b>8/9/2022</b>	SeqNo: <b>3213737</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R90139</b>	RunNo: <b>90139</b>								
Prep Date:	Analysis Date: <b>8/9/2022</b>	SeqNo: <b>3213738</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	104	90	110			
Bromide	2.5	0.10	2.500	0	101	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.1	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90268</b>	RunNo: <b>90268</b>								
Prep Date:	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219692</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R90268</b>	RunNo: <b>90268</b>								
Prep Date:	Analysis Date: <b>8/13/2022</b>	SeqNo: <b>3219693</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	10	0.50	10.00	0	99.8	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	99.6	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90565</b>	RunNo: <b>90565</b>								
Prep Date:	Analysis Date: <b>8/24/2022</b>	SeqNo: <b>3235364</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: <b>LCS</b>		SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>					
Client ID: <b>LCSW</b>		Batch ID: <b>R90565</b>			RunNo: <b>90565</b>					
Prep Date:		Analysis Date: <b>8/24/2022</b>			SeqNo: <b>3235373</b>		Units: <b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.6	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 18

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208428

08-Sep-22

**Client:** Safety & Environmental Solutions**Project:** Scripps Pit

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>S90169</b>			RunNo: <b>90169</b>						
Prep Date:	Analysis Date: <b>8/10/2022</b>			SeqNo: <b>3215026</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.4	70	130			
Toluene	18	1.0	20.00	0	91.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		114	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>PBW</b>	Batch ID: <b>S90169</b>			RunNo: <b>90169</b>						
Prep Date:	Analysis Date: <b>8/10/2022</b>			SeqNo: <b>3215035</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	12		10.00		119	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank  
E Estimated value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: Ics-1 98.9uS eC		SampType: Ics		TestCode: SM2510B: Specific Conductance						
Client ID: LCSW		Batch ID: R90216		RunNo: 90216						
Prep Date:		Analysis Date: 8/11/2022		SeqNo: 3217427		Units: µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	10	98.90	0	99.7	85	115			

- Qualifiers:
- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions  
Project: Scripps Pit

Sample ID: <b>mb-1 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219467</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-1 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219468</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.40	20.00	80.00	0	98.0	90	110			

Sample ID: <b>mb-2 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219490</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-2 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219491</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	78.36	20.00	80.00	0	98.0	90	110			

Sample ID: <b>mb-3 alk</b>	SampType: <b>mblk</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219513</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20.00								

Sample ID: <b>lcs-3 alk</b>	SampType: <b>lcs</b>	TestCode: <b>SM2320B: Alkalinity</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R90262</b>	RunNo: <b>90262</b>								
Prep Date:	Analysis Date: <b>8/12/2022</b>	SeqNo: <b>3219514</b> Units: <b>mg/L CaCO3</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	77.56	20.00	80.00	0	97.0	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208428

08-Sep-22

Client: Safety & Environmental Solutions

Project: Scripps Pit

Sample ID: MB-69390	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 69390	RunNo: 90199								
Prep Date: 8/10/2022	Analysis Date: 8/11/2022	SeqNo: 3216390 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-69390	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 69390	RunNo: 90199								
Prep Date: 8/10/2022	Analysis Date: 8/11/2022	SeqNo: 3216391 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	993	20.0	1000	0	99.3	80	120			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

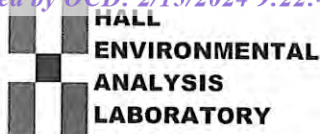
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2208428

RcptNo: 1

Received By: Tracy Casarrubias 8/6/2022 10:30:00 AM

Completed By: Tracy Casarrubias 8/6/2022 3:07:43 PM

Reviewed By: *see 8/8/22*

**Chain of Custody**

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

**Log In**

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☒ No ☐ NA ☐  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: *8*

( $<2$  or  $>12$  unless noted)

Adjusted? *NO*

Checked by: *WU 8.08.22*

**Special Handling (if applicable)**

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			
2	1.0	Good	Yes			





**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 314665

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:
	7377
	Action Number: 314665
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Annual Groundwater Monitoring Report (09.14.2023) for Scripp Pit (AP-25): accepted for the record and site is currently under review; a meeting is currently being scheduled between OCD and EOG to discuss a work plan and path forward for the site.	9/20/2024