RANGER
ENVIRONMENTAL SERVICES, LLC

ANNUAL GROUNDWATER MONITORING REPORT

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

PREPARED FOR:

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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.

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). Initial communications were completed with NMOCD representative Mr. Nelson Velez who, at the time of discussion, reported to Ranger that he would be the NMOCD representative in charge of the Site. During discussion on the Site, Mr. Velez directed that a report be prepared summarizing the Site's history and current status, as well as providing formal submittal of all data collected at the Site from 2005 to 2023. Additionally, Mr. Velez directed that a groundwater sampling event be conducted in the fourth quarter of 2023, with the results to be included in an annual groundwater monitoring report.

Based on the communications with Mr. Velez, a comprehensive *Site Chronology and Status Update* report was prepared and sent to Mr. Velez in draft form on September 13, 2023 for review and further discussion. Prior to receiving a response on the draft *Site Chronology and Status Update* report, on November 16, 2023, Ranger was informed by Mr. Velez that Mr. Mike Buchanan of the NMOCD would be assuming responsibility for the oversight of the project. It was also reported that the draft report pending review would be discussed and provided to Mr. Buchanan for review. As of February 2024, a response from the NMOCD regarding the draft *Site Chronology and Status Update* report had not been received. As such, on February 22, 2024, the *Site Chronology and Status Update* report was submitted to the NMOCD.

Groundwater monitoring activities were continued at the subject site with the directed groundwater monitoring event completed in November 2023. This report has been prepared to document the completion of the 2023 site groundwater monitoring activities.

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

Below is a chronology of the activities undertaken at the Site to date. 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 21, 2000, ETGI and a drilling subcontractor installed two soil borings at the Site (SB's 1 & 2). 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) soil 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 the 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.

2.3 2020 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. 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' below ground surface (bgs).

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 ≤ 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. Details of this investigation were provided in the *Site Chronology and Status Update* report submitted to the NMOCD in draft form in September 2023, and in final form in February 2024.

2.4 Groundwater Monitoring (2005 through 2022)

During the 2005 through 2022 timeframe, a total of 13 groundwater monitoring events were conducted at the Site. The site monitoring wells were gauged and sampled during each event. No light nonaqueous phase liquid (LNAPL) was found to be present at the site; however, exceedances of the New Mexico WQCC standards were documented in the groundwater. The groundwater analytical data primarily documented the presence of elevated chloride, sulfate and TDS concentrations, as well as less frequent detections of other constituents of concern. 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. Below is a brief summary of the groundwater monitoring results through 2022.

Well Gauging (2005 through 2022)

No LNAPL was documented to be present in the site monitoring wells. The depth to groundwater in the site monitoring wells was documented to range from a minimum of approximately 34.61' below top-of-casing (btoc) in MW-1 to a maximum of approximately 42.90' btoc in MW-3. The site groundwater gradient and flow direction was documented to be predominantly to the west and southwest with gradients ranging from approximately 0.003 - 0.008 ft/ft. Minor flow to the northwest was also observed at the Site.

Groundwater Anions (2005 through 2022)

Concentrations of chloride above the NMAC 20.6.2.3103 criteria were documented in every sample collected from the four site monitoring wells. Due to the site monitor well configuration, it was difficult to discern if the elevated chloride concentrations were related to the former pit operations, background conditions, and/or another source area to the east of the pit. On multiple occasions, upgradient to cross-gradient monitor well MW-1 was found to contain the highest site chloride concentration, a condition that did 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 were suggestive of impacts from the historic pit operations.

Sulfate concentrations in exceedance of the NMAC 20.6.2.3103 criteria were also documented in every sample collected from the four site monitoring wells. The wells with the highest sulfate concentrations (MW-1 and MW-2) were located outside of the pit. The pit did not appear to be a source area for the sulfate in the groundwater. The sulfate concentrations in the monitoring well network showed decreasing concentrations in variable directions (to the west, east and northeast)

on the varying sample dates which did not comport with that which would be expected from a historic release from the pit.

Elevated Nitrate+Nitrite (as N) concentrations were documented in the samples collected from upgradient to cross-gradient monitor well MW-1 during the last six sampling events. Again, this did 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 were observed in this well after that.

Dissolved Metals (2005 through 2022)

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 were subsequently documented in all four monitor wells. Monitor well MW-1 was 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 remained within the WQCC standards through 2022. MW-3 was documented to contain exceedances of arsenic and/or manganese in sampling events conducted in 2013 and 2018; however, these COCs remained within the WQCC standards through 2022. Monitor well MW-4 was 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 were elevated concentrations of various metals in the site monitoring well network between 2005 and 2022, there were no clear indications of metals impacts due to the historic pit operations. The majority of the metals exceedances were 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) were detected in the site monitoring wells in exceedance of the WQCC standards except for benzene in pit monitor well MW-4. Benzene was detected in this well in exceedance of the WQCC standard during 12 out of the 15 sampling events conducted between 2002 and 2022. The benzene concentrations in this well 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 appeared suggestive of a stable to declining plume condition. Based upon the available data, the benzene impacts in MW-4 appeared 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 were documented in every sample collected from the four site monitoring wells. As discussed above, with the current site monitor well configuration, it was difficult to discern if the elevated TDS concentrations were 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 were suggestive of impacts from the historic pit operations. Additional monitor well installation and sampling activities were determined to be necessary to enable a more thorough evaluation of the site groundwater conditions.

3.0 GROUNDWATER MONITORING (2023)

On November 29, 2023, an annual groundwater monitoring event was conducted at the Site. The site monitoring wells were gauged and sampled.

Ranger has compiled and attached both current (2023) and cumulative tables of the Site well gauging and groundwater analytical data. Also attached are November 2023 isoconcentration maps for the primary groundwater constituents of concern at the Site (chloride, sulfate and TDS), as well as a copy of the laboratory analytical report for the November 2023 annual groundwater sampling event. Below is a summary of the 2023 annual groundwater monitoring activities and results.

3.1 Groundwater Monitoring Methodologies

Upon arrival at the Site, the monitor wells were opened and allowed to equilibrate for approximately 30 minutes prior to the performance of any well gauging or sampling activities. Prior to sampling the groundwater in each monitor well, the wells were first gauged with a decontaminated interface probe to determine the depth to groundwater in each monitor well, and LNAPL thicknesses, if any. This data was utilized to determine the site groundwater flow direction and gradient.

Groundwater samples were subsequently collected using low-flow sampling techniques. The wells were purged and sampled using a low flow rate (0.026 to 0.264 gpm) that minimized drawdown. The pump-intake was located in the middle or slightly above the middle of the saturated screened interval. The monitoring wells were purged until the field water quality parameters (i.e., pH, temperature, and conductivity) stabilized. Parameters were considered to have stabilized if, over three consecutive readings, the following criteria were met:

- pH ±0.1 unit
- Temperature within 3%
- Conductivity within 3%

All sample containers were filled with minimal turbulence. Due to sample turbidity, the samples collected for dissolved metals analysis were first field-filtered through a 10-micron pore size filter. Ranger personnel wore new nitrile gloves while handling each sample in order to prevent cross-contamination of samples.

All samples were containerized using properly selected and cleaned containers, which were preserved by the laboratory as needed for the particular analysis to be performed. All VOC sample vials were filled completely to minimize head space. The samples were subsequently sealed in one or more ziplock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date of sample collection, samplers' initials, and time sampled collected. Chain-of-custody forms were completed to document sample transport to the analytical laboratory. The groundwater samples were subsequently analyzed for the following:

- **EPA Method 200.8:** Antimony, arsenic, lead, selenium, thallium and uranium
- **EPA Method 300.0:** Fluoride, chloride, bromide, phosphorus, orthophosphate (as P), sulfate, and nitrate+nitrite as N.
- **SM2510B:** Conductivity
- **SM2320B:** Bicarbonate (as CaCO3), carbonate (as CaCO3), and total alkalinity (as CaCO3)
- **SM2540C MOD:** Total dissolved solids
- **SM4500-H+B / 9040C:** pH
- **EPA METHOD 200.7:** Aluminum, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, molybdenum, nickel, potassium, silver, sodium, and zinc
- **EPA METHOD 8260B:** Benzene, toluene, ethylbenzene, and total xylenes (BTEX); naphthalene, 1-methylnaphthalene and 2-methylnaphthalene

A trip blank was included in the sampling cooler to assess the potential cross-contamination of field samples during shipment to, and storage in, the laboratory. The trip blank was analyzed for BTEX, naphthalene, 1-methylnaphthalene and 2-methylnaphthalene using Method 8260. All trip blank results were non-detectable. A temperature blank was also included in the sample shipping container. The temperature blank was received by the laboratory at a temperature below 6°C.

All purge water generated during the well purging process was placed in a sealed and labeled 55-gallon drum and was temporarily stored on-site pending off-site disposal.

3.2 2023 Groundwater Monitoring Results Summary

Well Gauging Results

No LNAPL was documented to be present in the site monitoring wells. The depth to groundwater in the site monitoring wells was documented to range from approximately 33.58' below ground surface (bgs) in MW-1 to a maximum of approximately 35.40' bgs in MW-3. As illustrated on the attached groundwater gradient map, the November 29, 2023 site groundwater gradient and flow direction was documented to range from approximately 0.001 - 0.003 ft/ft predominantly to the northwest. This groundwater flow direction is consistent with the historical well gauging results which have documented groundwater flow at the site to the west, southwest and northwest.

Groundwater Analytical Results

- *Groundwater Anions*: Concentrations of chloride and sulfate above the NMAC 20.6.2.3103 criteria were documented in all four site monitoring wells. Upgradient to cross-gradient monitor well MW-1 was found to contain the highest site chloride and

sulfate concentrations, a condition that does not comport with that which would be expected if these constituents were from historic releases from the former pit. The chloride concentration in MW-1 (34,000 mg/L) was significantly higher than any prior chloride results from this well. Prior to 2023, the highest chloride concentration in this well was 18,000 mg/L (in 2019). Monitor well MW-1 was also found to contain an elevated Nitrate+Nitrite (as N) concentration, consistent with the analytical results from this well since the 2019 timeframe.

- *Dissolved Metals*: Exceedances of the NMAC 20.6.2.3103 criteria for arsenic were documented in all four monitoring wells. Consistent with historical analytical results, upgradient to cross-gradient monitor well MW-1 was also found to contain elevated selenium and uranium concentrations.

- *VOCs*: There were no groundwater VOC exceedances of the NMAC 20.6.2.3103 criteria. This was the first time that the benzene concentration in monitor well MW-4 was reported as nondetectable. To evaluate the benzene trend in MW-4, Ranger input the historic MW-4 benzene data into the GSI Mann-Kendall Toolkit. A copy of the toolkit spreadsheet is provided in Attachment 4. It should be noted that the U.S. Environmental Protection Agency suggests setting non-detects to a common value lower than any of the detected values (USEPA, 2009). As such, and as recommended in the GSI Mann-Kendall Toolkit User's Manual, Ranger substituted one-half of the value of the MW-4 benzene detection limit for the non-detect result obtained from this well in November 2023.

  As summarized in the attached GSI Mann-Kendall Toolkit spreadsheet for the MW-4 benzene data, the MW-4 benzene data was reported to be decreasing with a 99.8% confidence factor. When the confidence factor is greater than 95%, the data are considered to be demonstrating a strong trend. Based upon this analysis, the benzene plume associated with the former pit appears to be in a declining condition and to be naturally attenuating over time.

- *Specific Conductance, pH, Alkalinity, and TDS*: Elevated TDS concentrations were documented in all four monitor wells at the site. Upgradient to cross-gradient monitor well MW-1 was found to contain the highest site TDS concentration (33,100 mg/L), a condition that does not comport with that which would be expected from historic releases from the former pit. Ranger notes, however, that pit monitor well MW-4 has historically contained groundwater TDS concentrations ranging from 22,900 – 57,400 mg/L. The November 29, 2023 MW-4 TDS result was only 7,700 mg/L. Future TDS results from this well should be evaluated to determine whether MW-4 is demonstrating a declining TDS trend or whether the November 29, 2023 TDS concentration was an anomalous result.

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. Analysis of the historic pit monitor well MW-4 benzene data was conducted using the GSI Mann-Kendall Toolkit. Based upon this analysis, the benzene plume associated with the former pit appears to be in a declining condition and to be naturally attenuating over time. The current (Nov. 2023) benzene concentration in MW-4 was reported as nondetectable.

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.

4.0 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 established communications with the NMOCD, and began discussion of the Site with Mr. Nelson Velez of the NMOCD including the steps needed to bring the Site into compliance with the current regulatory criteria and New Mexico Administrative Code (NMAC). 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.

Based on Ranger's communications with the NMOCD, on August 13, 2023, a draft comprehensive *Site Chronology and Status Update* report was submitted to Mr. Velez to provide the NMOCD with a summary of the Site history and the cumulative soil and groundwater data so that a regulatory path forward could be established. Additional directives included the completion of a fourth quarter groundwater monitoring event and the preparation of an annual report to be submitted by April 1, 2024.

On November 16, 2023, Ranger was informed by Mr. Velez that Mr. Mike Buchanan of the NMOCD would be assuming responsibility for the oversight of the project. Since no response has been received from the NMOCD to date with regard to the draft *Site Chronology and Status Update* report submitted to the NMOCD in August 2023, the report was formally submitted to the NMOCD on February 15, 2024.

Based upon the above, groundwater monitoring activities were continued at the subject site in 2023, with an annual groundwater monitoring event completed in November 2023. On November 21, 2023, EOG provided notice to the NMOCD of the planned annual groundwater monitoring event. A copy of this notification is attached. No NMOCD representatives were present on the day of sampling.

5.0 REGULATORY GUIDANCE REQUEST

In the *Site Chronology and Status Update* report submitted to the NMOCD in August 2023, EOG requested NMOCD guidance regarding the appropriate regulatory reporting/proposal format that will be required for the next phase of site activities.

6.0 RECOMMENDATIONS

- To assist in determining 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, further site investigation activities are recommended. At this time, Ranger recommends the installation of an additional monitoring well located to the west (downgradient) of the pit, and the installation of a background water quality monitoring well to the east (upgradient) of the pit. These two wells will help refine and confirm the site groundwater flow direction, and the eastern proposed well will provide site-specific background water quality data.

- Upon NMOCD determination of the appropriate regulatory mechanism and reporting format for the site, Ranger will prepare a detailed work plan for NMOCD review. Since the benzene impact to the groundwater is currently below the NMAC 20.6.2.3103 criteria and the plume is in a declining condition, and it is unclear whether the pit has resulted in any other groundwater COC impacts, Ranger believes that it may be beneficial to first complete the proposed monitor well installations and to sample these wells prior to making the determination of the appropriate regulatory mechanism and reporting format for the site.

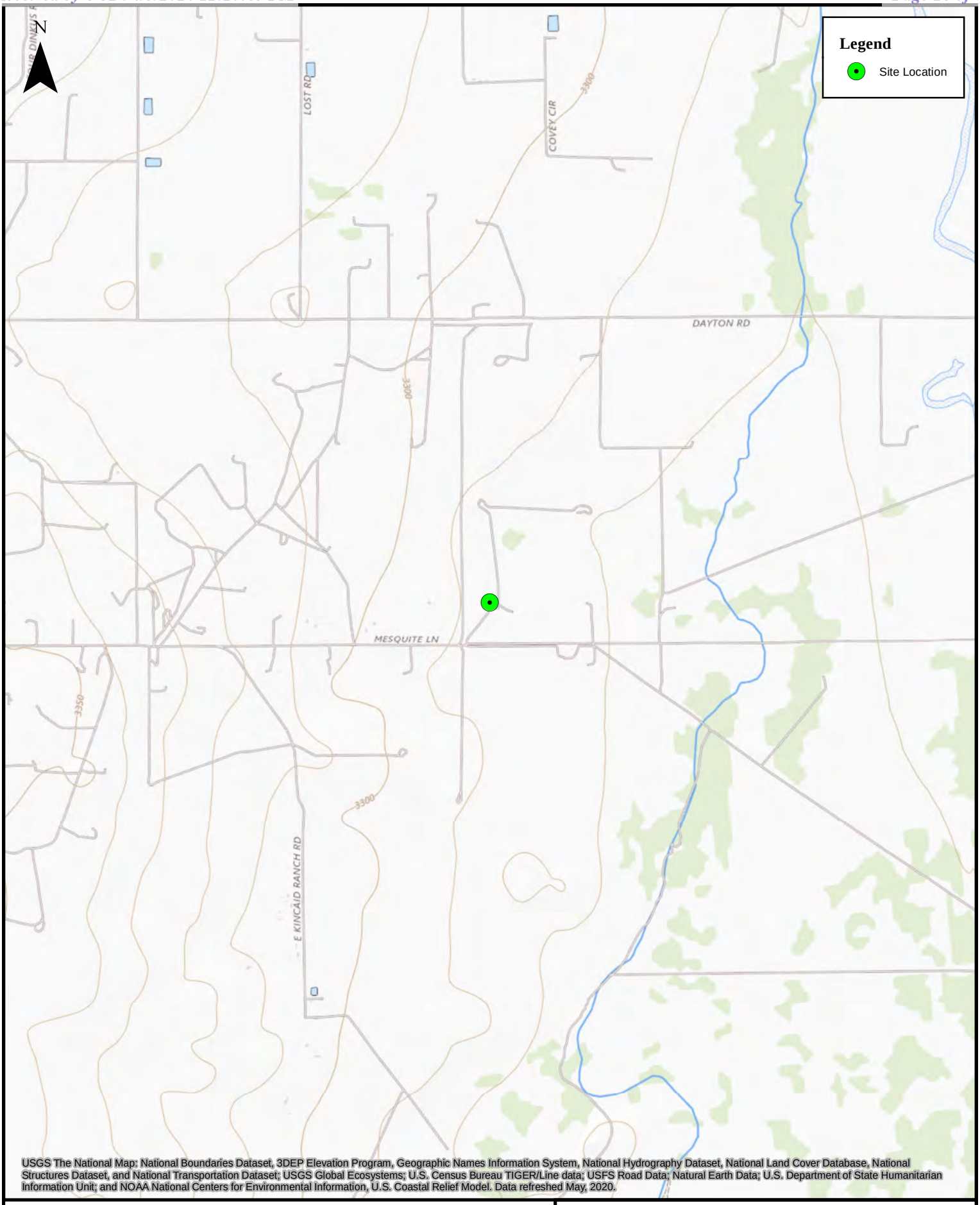
- Until such time that the NMOCD provides the requested project guidance and direction, EOG will initiate quarterly groundwater monitoring activities beginning in the second quarter of 2024. Based upon the cumulative site groundwater monitoring results, Ranger recommends that the site chemicals of concern (COCs) for future groundwater monitoring events be reduced to the following constituents which have been detected in exceedance of the NMAC 20.6.2.3103 criteria on at least one or more occasions:

    - Arsenic
    - Benzene
    - Beryllium
    - Boron
    - Chloride
    - Fluoride
    - Manganese
    - Mercury
    - Nitrate
    - Nitrite
    - Selenium
    - Silver
    - Sulfate
    - Total Dissolved Solids
    - Uranium

  Upon NMOCD review of this report and the *Site Chronology and Status Update* report, the above-recommended subset of the site groundwater monitoring COCs will be modified if requested by the NMOCD.

FIGURES

Topographic Map
Area Map
Site Map
ETGI October 21, 2000 Soil Boring Location Map
Groundwater Gradient Map
Groundwater TDS, Chloride, and Sulfate Isoconcentration Maps
Proposed Monitor Well Location Map



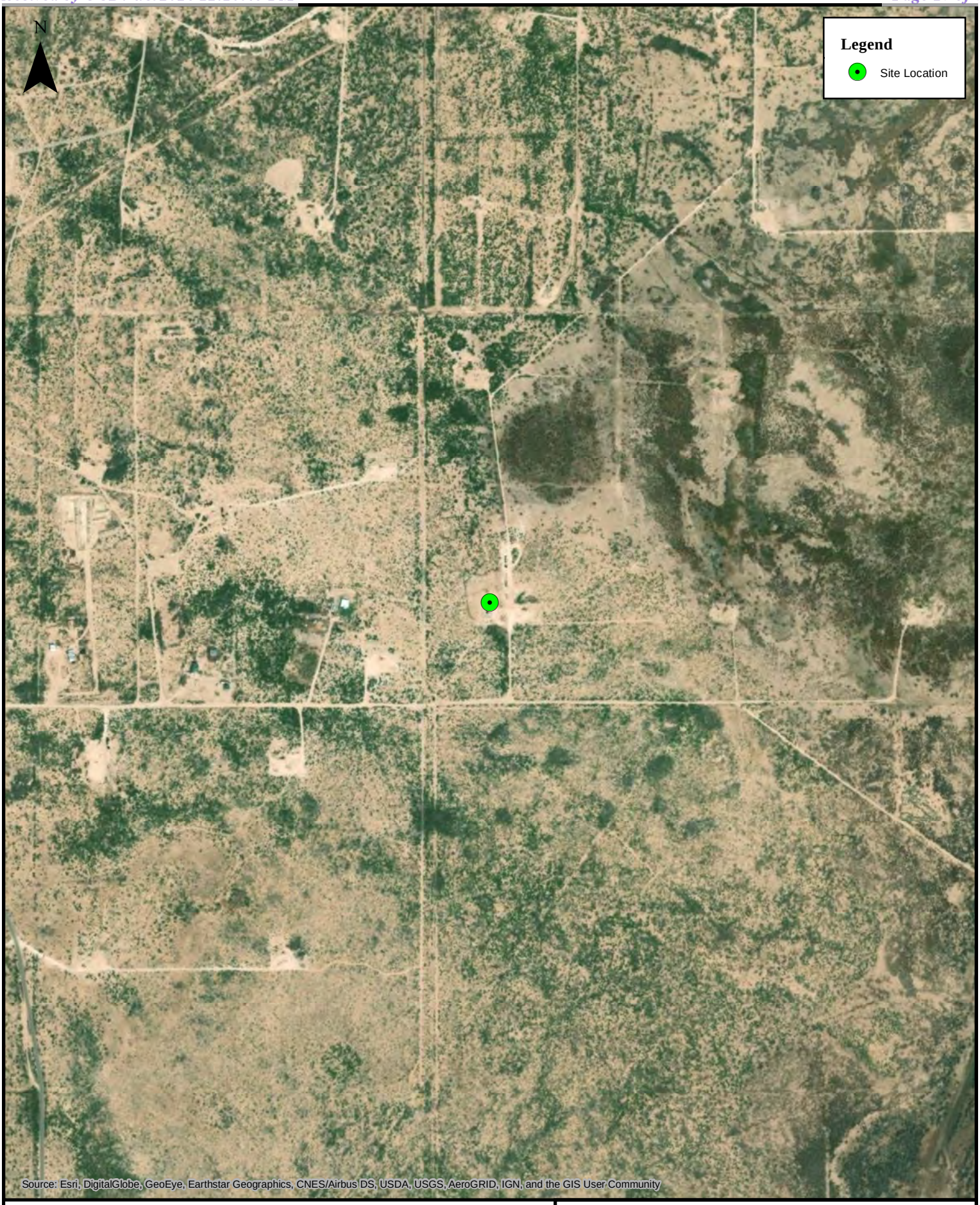
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, LLC

0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

Topographic Map
Scripp Pit
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, LLC

0 250 500 1,000 1,500 2,000 Feet

1:10,000

Area Map
Scripp Pit
EOG Resources, Inc.

NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

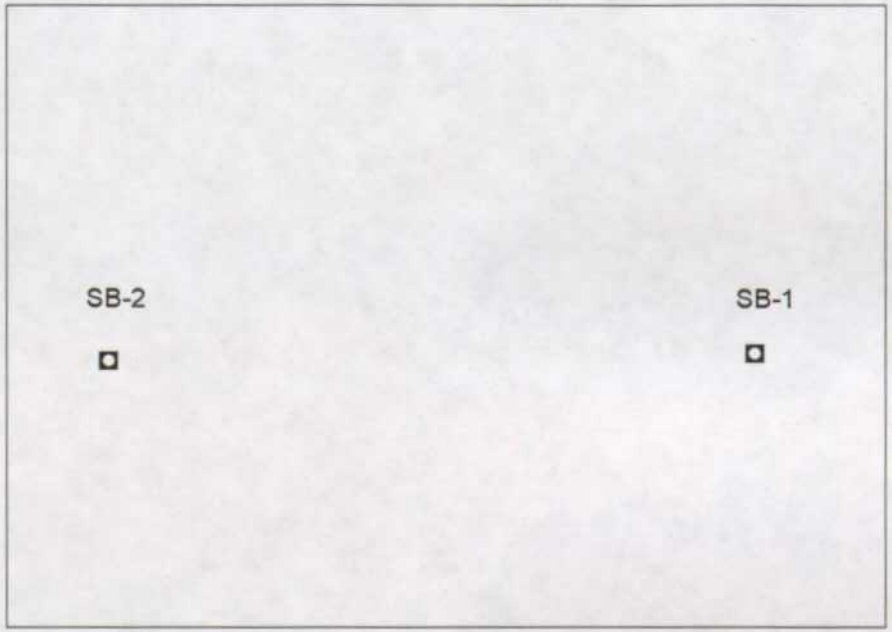
RANGER ENVIRONMENTAL SERVICES, LLC

0 12.5 25 50 75 100 Feet

1:600

Site Map
Scripp Pit
EOG Resources, Inc.

**Figure Source: ETGI *Preliminary Site Investigation Report* (Dated November 2000)



LEGEND:

Soil Boring Location

20 10 0 10 20

Distance In Feet

N

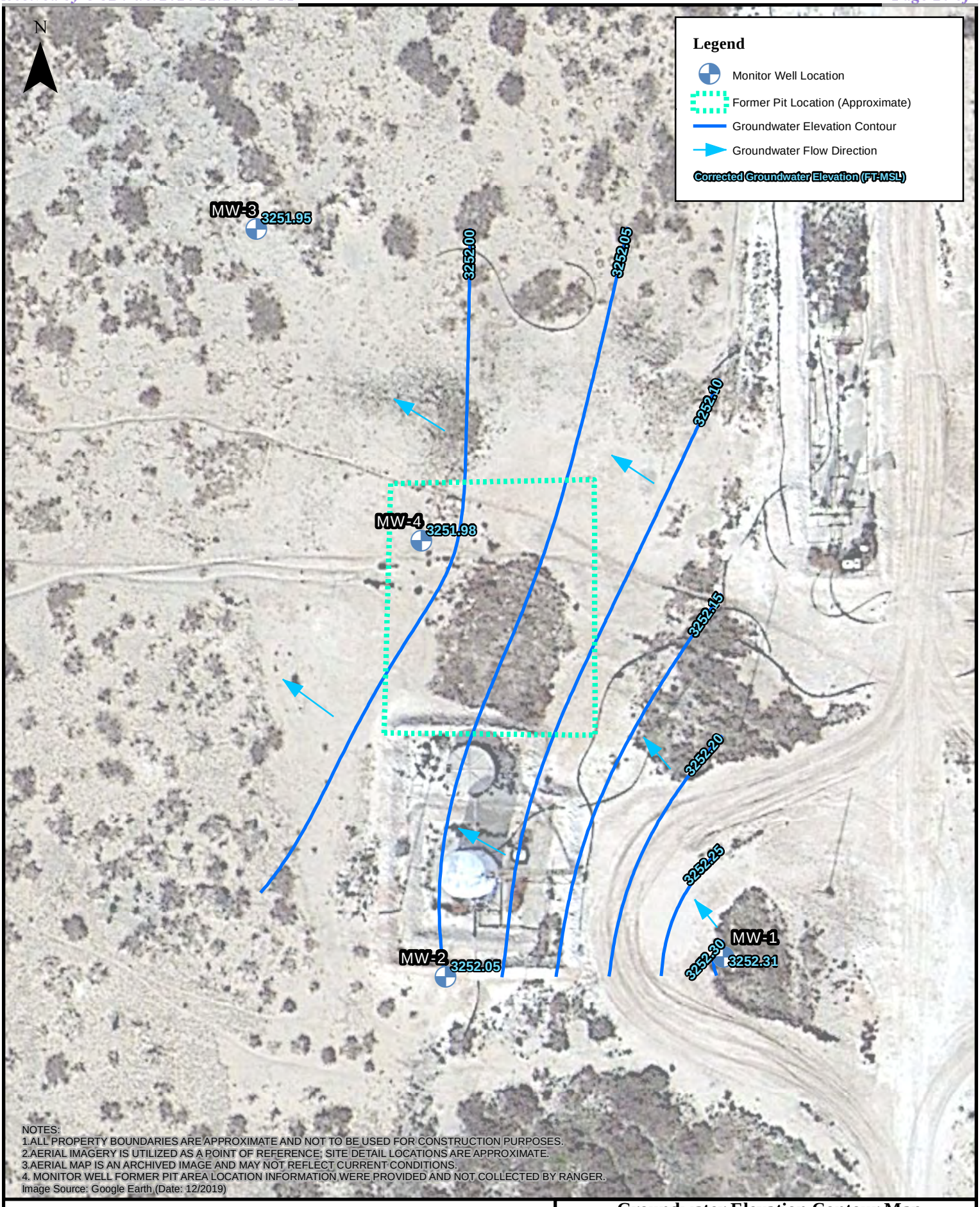
ETGI

Figure 2
Site Map

Yates Petroleum Corp.
Scripp Pit
Artesia, NM

Environmental Technology Group, Inc.

Scale: 1" = 20'	Prep By: JDJ	Checked By: JT
November 14, 2000	ETGI Project # YPC 2200D	



NOTES:
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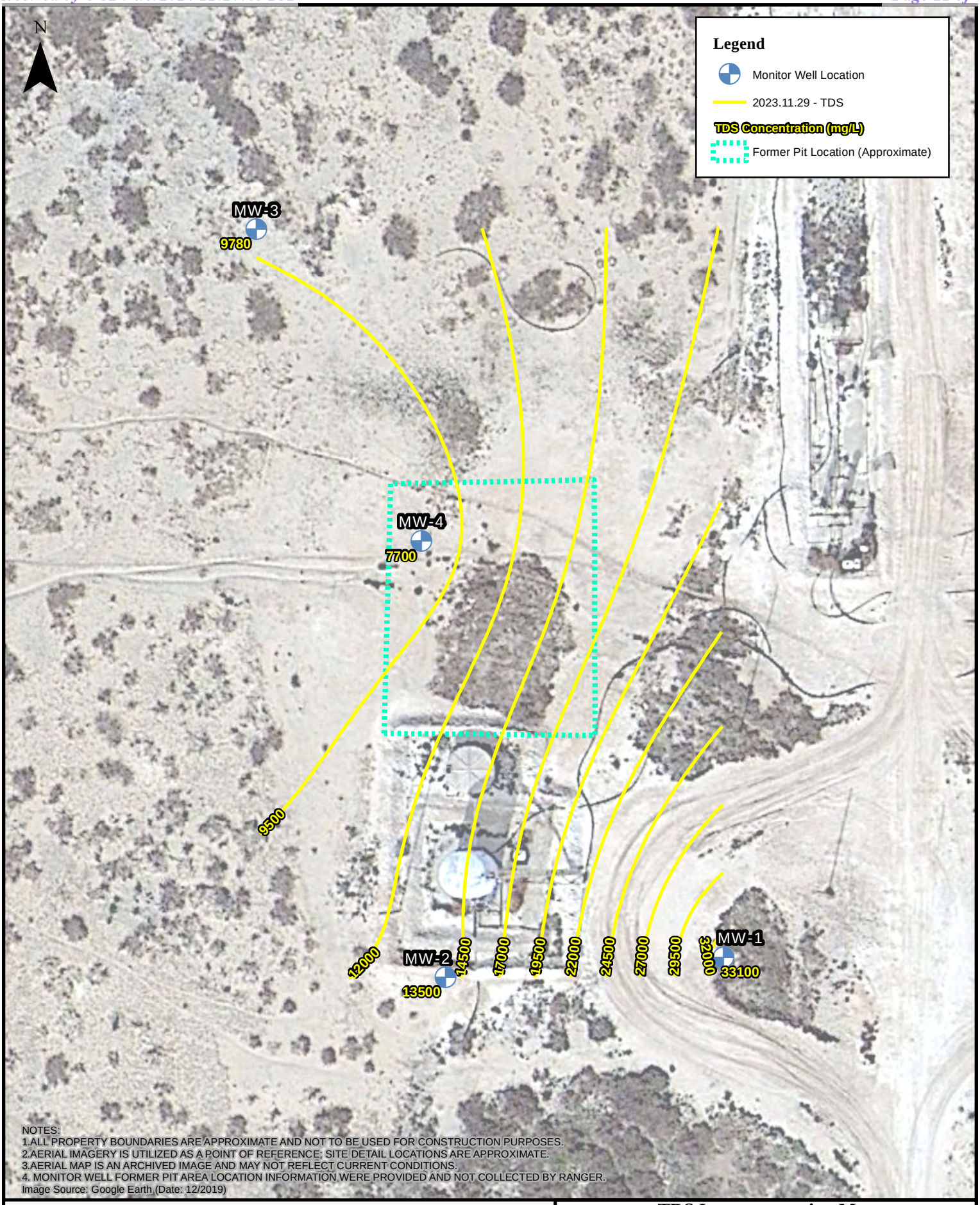
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 10 20 40 60 80 Feet

1:500

Groundwater Elevation Contour Map
(Date: 11/29/2023)
Scripp Pit
EOG Resources, Inc.



NOTES:
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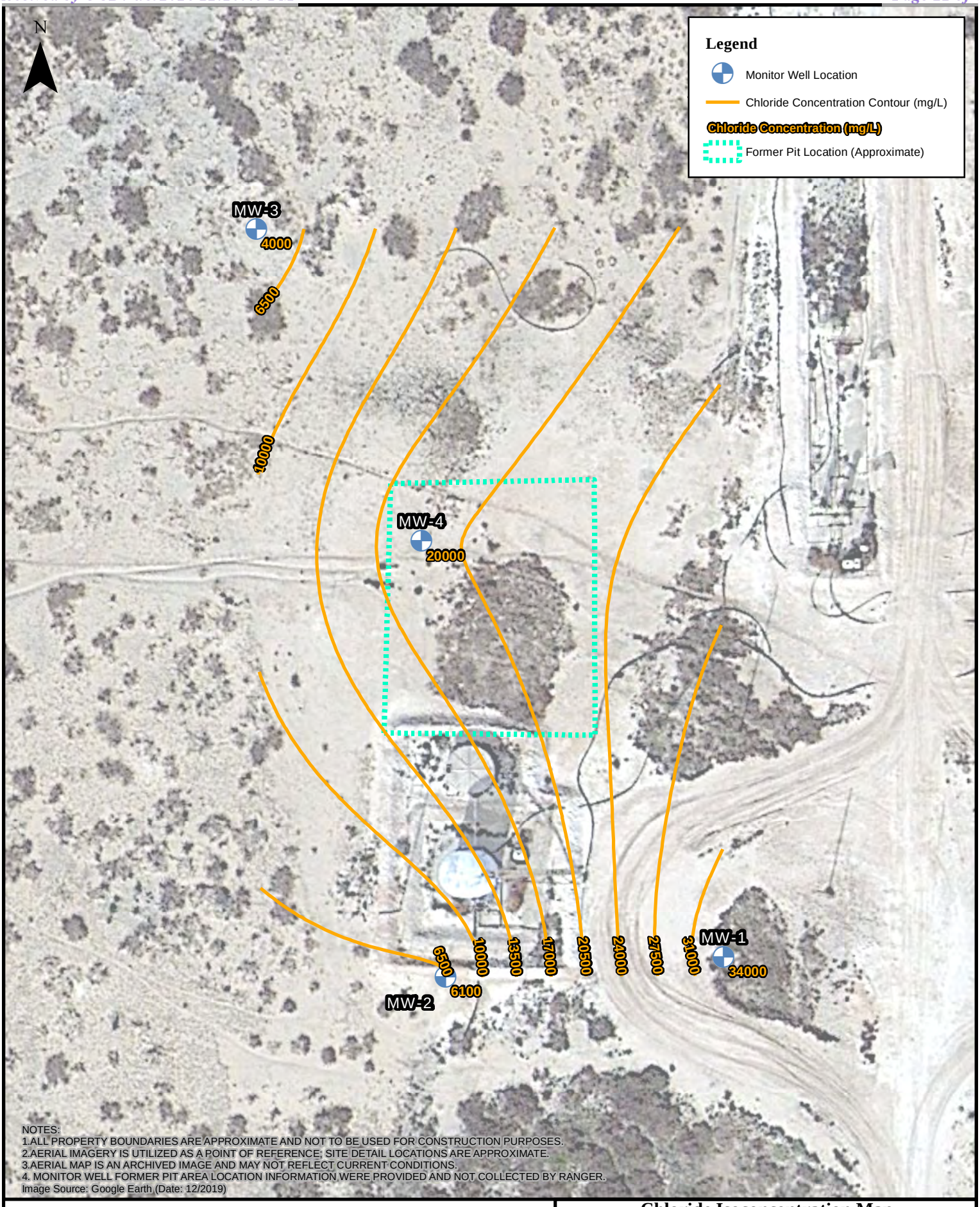
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 10 20 40 60 80 Feet

1:500

TDS Isoconcentration Map
(Sample Date: 11/29/2023)
Scripp Pit
EOG Resources, Inc.



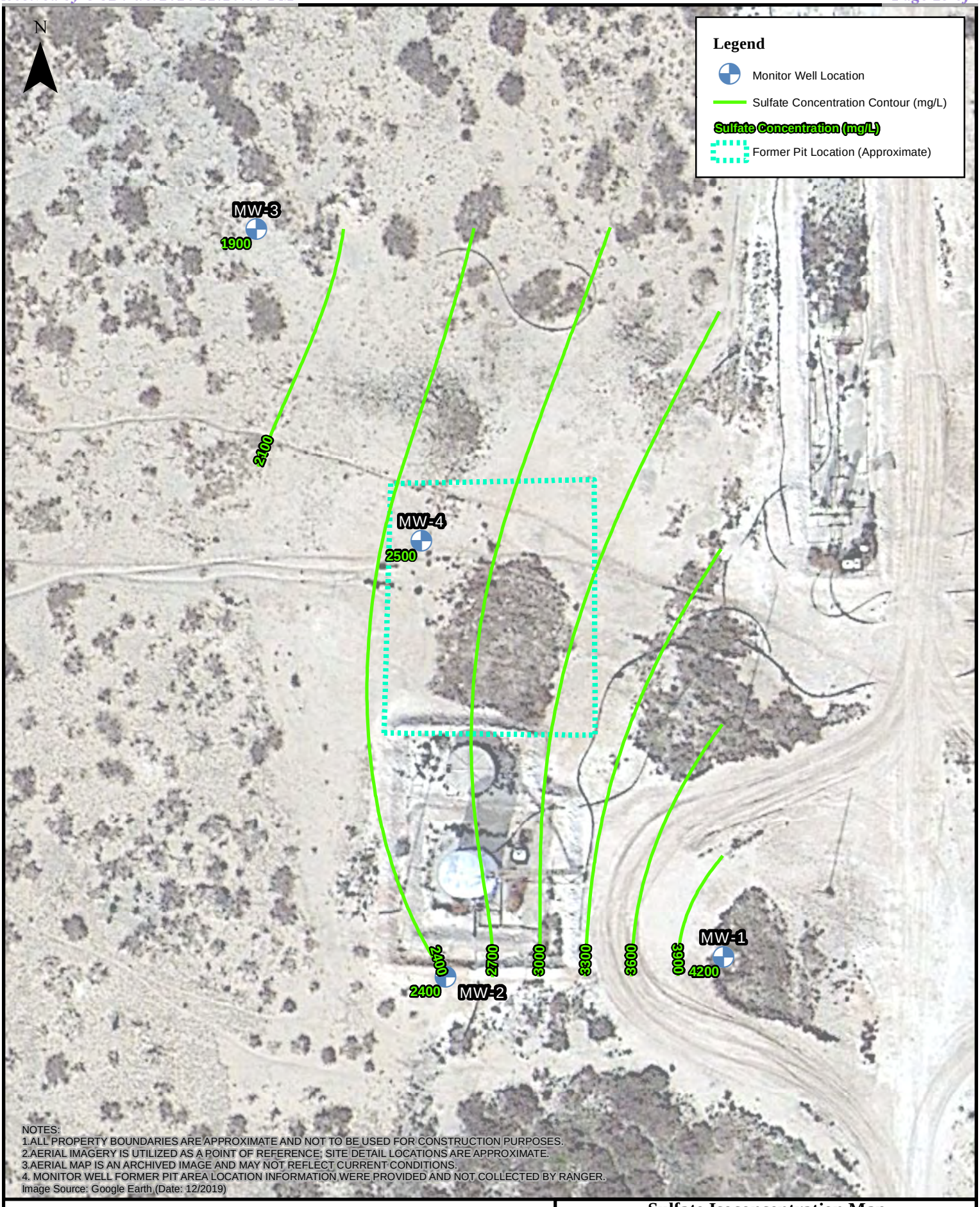
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 10 20 40 60 80 Feet

1:500

Chloride Isoconcentration Map
(Sample Date: 11/29/2023)
Scripp Pit
EOG Resources, Inc.



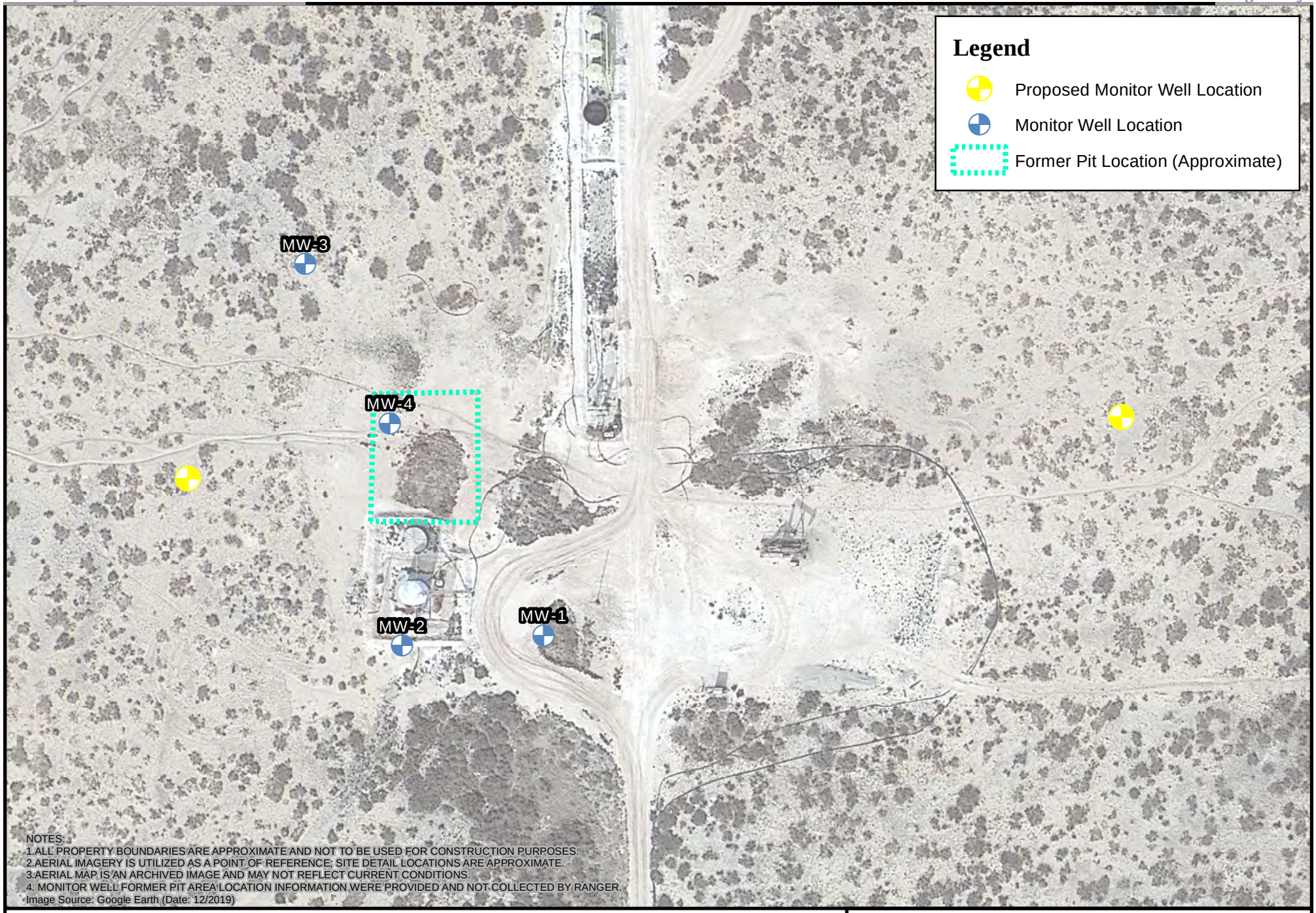
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
4. MONITOR WELL FORMER PIT AREA LOCATION INFORMATION WERE PROVIDED AND NOT COLLECTED BY RANGER.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, LLC

0 10 20 40 60 80 Feet

1:500

Sulfate Isoconcentration Map
(Sample Date: 11/29/2023)
Scripp Pit
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, LLC

0 25 50 100 150 200 Feet

1:1,000

N

Proposed Monitor Well Location Map

Scripp Pit

EOG Resources, Inc.

TABLES

Current Event Well Gauging Data
Current Event Groundwater EPA Method 300.0: Anions
Current Event Groundwater Dissolved Metals (Table 1 of 2)
Current Event Groundwater Dissolved Metals (Table 2 of 2)
Current Event Groundwater TPH and VOC Data Summary
Current Event Groundwater Specific Conductance, pH, Alkalinity, and TDS

Cumulative Well Gauging Data
Cumulative Groundwater EPA Method 300.0: Anions
Cumulative Groundwater Dissolved Metals (Table 1 of 2)
Cumulative Groundwater Dissolved Metals (Table 2 of 2)
Cumulative Groundwater TPH and VOC Data Summary
Cumulative Groundwater Specific Conductance, pH, Alkalinity, and TDS

CURRENT EVENT TABLES

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

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
MW-1	11/29/2023	3,288.79	36.48	0.00	3252.31	23'-38'
MW-2	11/29/2023	3289.17	37.12	0.00	3252.05	30'-45'
MW-3	11/29/2023	3290.08	38.13	0.00	3251.95	35'-50'
MW-4	11/29/2023	3289.52	37.54	0.00	3251.98	40'-55'

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

CURRENT EVENT 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
MW-1	11/29/2023	<2.0	**34,000**	13	< 10	**4,200**	---	---	**20**
MW-2	11/29/2023	< 2.0	**6,100**	3.7	<0.50	**2,400**	---	---	< 4.0
MW-3	11/28/2023	< 2.0	**4,000**	2.8	< 0.50	**1,900**	---	---	< 4.0
MW-4	11/29/2023	< 2.0	**20,000**	8.9	< 10	**2,500**	---	---	< 20
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)				**---**	**---**				
A. Human Health Standards		**1.6**					**1**	**10**	**10** [1]
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.

CURRENT EVENT 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	11/29/2023	0.025	0.021	< 0.0020	0.27	< 0.0020	2,500	< 0.0060	< 0.0060	< 0.020	2,000	< 0.0020	< 0.0080	< 0.010	5.6	0.042	4,500	<0.010
MW-2	11/29/2023	< 0.020	0.0099	< 0.0020	0.41	< 0.0020	720	< 0.0060	< 0.0060	< 0.020	410	0.0091	< 0.0080	< 0.010	13	0.015	3,600	< 0.010
MW-3	11/29/2023	< 0.020	0.011	< 0.0020	0.22	< 0.0020	680	< 0.0060	< 0.0060	0.077	410	0.071	< 0.0080	< 0.010	8.2	0.012	2,100	< 0.010
MW-4	11/29/2023	0.023	0.019	< 0.0020	0.74	< 0.0020	2,500	< 0.0060	< 0.0060	< 0.20	840	0.085	< 0.0080	< 0.010	22	0.040	9,800	< 0.010
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)							**---**				**---**				**---**		**---**	
A. Human Health Standards			**2**	**0.004**		**0.005**		**0.05**								**0.05**		
B. Other Standards for Domestic Water Supply										**1.0**		**0.2**						**10**
C. Standards for Irrigation Use		**5.0**			**0.75**				**0.05**				**1.0**	**0.2**				

Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

CURRENT EVENT 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	11/29/2023	<0.0050	**0.048**	< 0.0060	< 0.0025	---	**0.093**	< 0.0012	**0.031**
MW-2	11/29/2023	< 0.0050	**0.014**	< 0.0060	< 0.0025	---	0.017	<0.0012	0.011
MW-3	11/29/2023	< 0.0050	**0.012**	< 0.0060	< 0.0025	---	0.011	< 0.0012	0.0069
MW-4	11/29/2023	< 0.0050	**0.041**	< 0.0060	< 0.0025	---	0.0078	< 0.0012	0.016
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:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

CURRENT EVENT 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-1	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-2	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-3	11/29/2023	---	---	---	---	<0.001	<0.001	<0.001	<0.0015	---	---	<0.002	<0.004	<0.004
MW-4	11/29/2023	---	---	---	---	<0.001	<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						**0.005**	**1**	**0.7**	**0.62**			**0.03 [1]**	**0.03 [1]**	**0.03 [1]**
B. Other Standards for Domestic Water Supply					**0.1**									
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.

CURRENT EVENT 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 CaCO3)	Carbonate (As CaCO3)	Total Alkalinity (as CaCO3)	
MW-1	11/29/2023	50,000	7.00	173.3	< 2.000	173.3	**33,100**
MW-2	11/29/2023	24,000	7.37	216.4	< 2.000	216.4	**13,500**
MW-3	11/29/2023	17,000	7.36	228.8	< 2.000	228.8	**9,780**
MW-4	11/29/2023	65,000	7.11	227.2	< 2.000	227.2	**7,700**
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)		**---**		**---**	**---**	**---**	
A. Human Health Standards							
B. Other Standards for Domestic Water Supply			**6 to 9**				**1,000**
C. Standards for Irrigation Use							

Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

CUMULATIVE TABLES

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

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
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-1	11/29/2023	3,288.79	36.48	0.00	3252.31	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-2	11/29/2023	3289.17	37.12	0.00	3252.05	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'

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

WELL NUMBER	DATE	CASING ELEV. (FT)	DEPTH TO WATER (FT-BTOC)	LNAPL THICKNESS (FT)	GW ELEVATION (FT)	SCREENED INTERVAL (FT-BGS)
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'
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-3	11/29/2023	3290.08	38.13	0.00	3251.95	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'
MW-4	11/29/2023	3289.52	37.54	0.00	3251.98	40'-55'

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

CUMULATIVE 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-1	11/29/2023	<2.0	34,000	13	< 10	4,200	---	---	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-2	11/29/2023	< 2.0	6,100	3.7	<0.50	2,400	---	---	< 4.0
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-3	11/28/2023	< 2.0	4,000	2.8	< 0.50	1,900	---	---	< 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

CUMULATIVE 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
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
MW-4	11/29/2023	< 2.0	**20,000**	8.9	< 10	**2,500**	---	---	< 20
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)				**---**	**---**				
A. Human Health Standards		**1.6**					**1**	**10**	**10** [1]
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.

CUMULATIVE 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-1	11/29/2023	0.025	0.021	< 0.0020	0.27	< 0.0020	2,500	< 0.0060	< 0.0060	< 0.020	2,000	< 0.0020	< 0.0080	< 0.010	5.6	0.042	4,500	<0.010
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-2	11/29/2023	< 0.020	0.0099	< 0.0020	0.41	< 0.0020	720	< 0.0060	< 0.0060	< 0.020	410	0.0091	< 0.0080	< 0.010	13	0.015	3,600	< 0.010

CUMULATIVE 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-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
MW-3	11/29/2023	< 0.020	0.011	< 0.0020	0.22	< 0.0020	680	< 0.0060	< 0.0060	0.077	410	0.071	< 0.0080	< 0.010	8.2	0.012	2,100	< 0.010
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
MW-4	11/29/2023	0.023	0.019	< 0.0020	0.74	< 0.0020	2,500	< 0.0060	< 0.0060	< 0.20	840	0.085	< 0.0080	< 0.010	22	0.040	9,800	< 0.010
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)							**---**				**---**				**---**		**---**	
A. Human Health Standards			**2**	**0.004**		**0.005**		**0.05**								**0.05**		
B. Other Standards for Domestic Water Supply										**1.0**		**0.2**						**10**
C. Standards for Irrigation Use		**5.0**			**0.75**				**0.05**				**1.0**	**0.2**				

Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

CUMULATIVE 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-1	11/29/2023	<0.0050	**0.048**	< 0.0060	< 0.0025	---	**0.093**	< 0.0012	**0.031**
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-2	11/29/2023	< 0.0050	**0.014**	< 0.0060	< 0.0025	---	0.017	<0.0012	0.011
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
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-3	11/29/2023	< 0.0050	**0.012**	< 0.0060	< 0.0025	---	0.011	< 0.0012	0.0069
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	---	**0.014**	< 0.060	< 0.010	0.0012	0.025	---	0.017
MW-4	12/7/2012	---	0.0066	< 0.0060	< 0.020	**0.0028**	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	---	**0.023**	< 0.0060	< 0.0050	0.0015	**0.094**	---	0.018
MW-4	3/28/2018	---	**0.019**	<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
MW-4	11/29/2023	< 0.0050	**0.041**	< 0.0060	< 0.0025	---	0.0078	< 0.0012	0.016
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:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

CUMULATIVE 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-1	11/29/2023	---	---	---	---	<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-2	11/29/2023	---	---	---	---	<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	---	---	---	---	---	---	---	---	---	---	---	---	---

CUMULATIVE 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	3/12/2013	---	---	---	---	<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	---	---
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-3	11/29/2023	---	---	---	---	<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
MW-4	11/29/2023	---	---	---	---	<0.001	<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						**0.005**	**1**	**0.7**	**0.62**			**0.03** [1]	**0.03** [1]	**0.03** [1]
B. Other Standards for Domestic Water Supply					**0.1**									
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.

CUMULATIVE 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 CaCO3)	Carbonate (As CaCO3)	Total Alkalinity (as CaCO3)	
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-1	11/29/2023	50,000	7.00	173.3	< 2.000	173.3	33,100
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-2	11/29/2023	24,000	7.37	216.4	< 2.000	216.4	13,500
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-3	11/29/2023	17,000	7.36	228.8	< 2.000	228.8	9,780

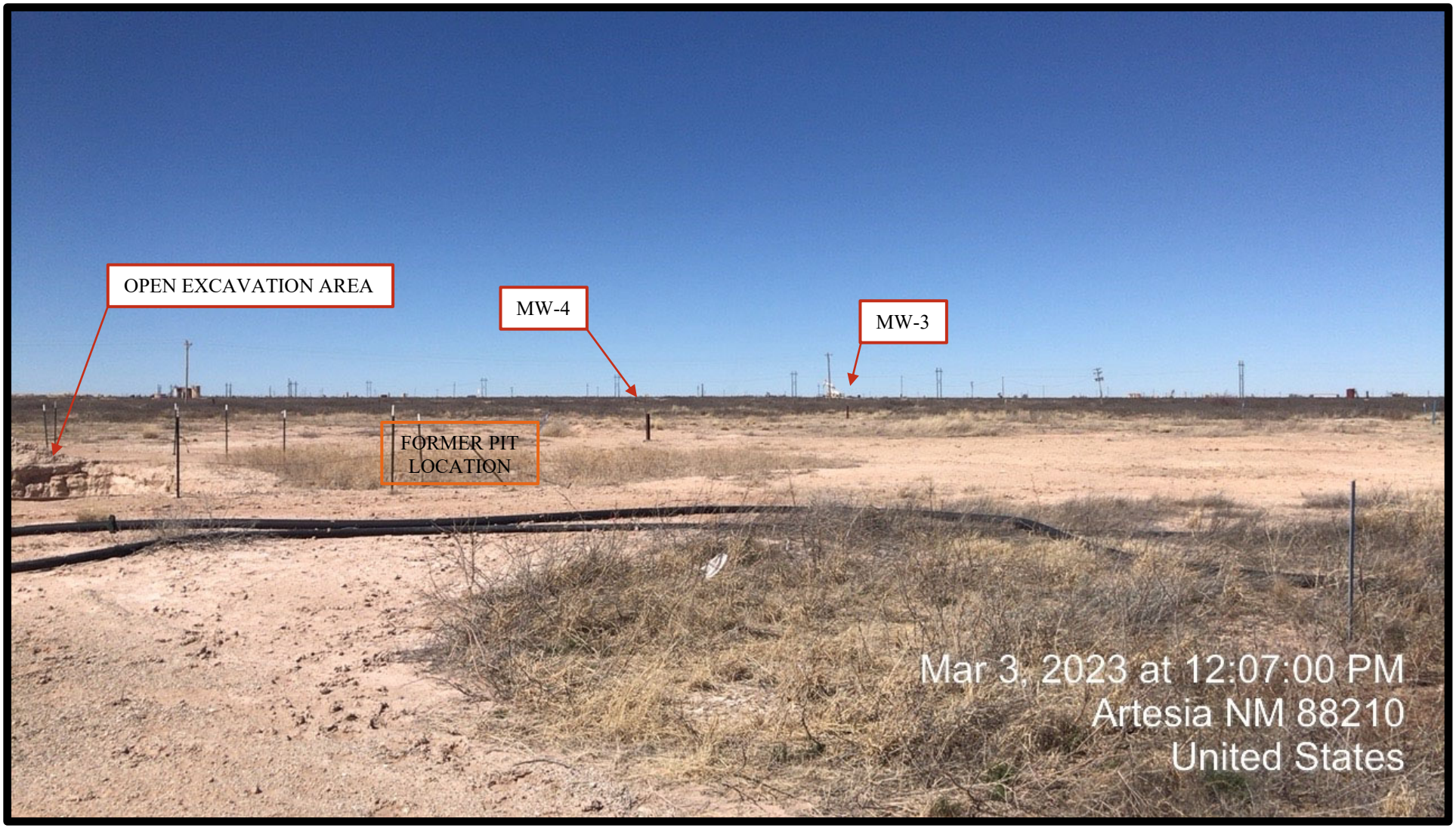
CUMULATIVE GROUNDWATER SPECIFIC CONDUCTANCE, pH, ALKALINITY, AND TDS
SCRIPP PIT
EDDY COUNTY, NEW MEXICO
AP-25

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

SAMPLE ID	DATE	Conductivity µmhos/c	pH	Alkalinity (mg/L)			TDS (mg/L)
				Bicarbonate (As CaCO3)	Carbonate (As CaCO3)	Total Alkalinity (as CaCO3)	
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**
MW-4	3/12/2013	63,000	7.06	250	< 2.0	250	**33,800**
MW-4	6/27/2013	60,000	7.30	240	< 2.0	240	**35,500**
MW-4	3/28/2018	64,000	---	289	< 2.000	289	**33,600**
MW-4	3/11/2019	38,000	7.20	298.2	< 2.000	298.2	**22,900**
MW-4	10/29/2019	52,000	7.40	248.7	< 2.000	248.7	**33,700**
MW-4	9/18/2020	52,000	7.37	327.8	< 2.000	327.8	**24,900**
MW-4	8/24/2021	76,000	---	254.1	< 2.000	254.1	**40,700**
MW-4	3/22/2022	61,000	7.24	276.7	< 2.000	276.7	**36,300**
MW-4	8/3/2022	74,000	7.08	251.5	< 2.000	251.5	**38,000**
MW-4	11/29/2023	65,000	7.11	227.2	< 2.000	227.2	**7,700**
20.6.2.3103 NMAC GW STANDARDS (<10,000 mg/L)		**---**		**---**	**---**	**---**	
A. Human Health Standards							
B. Other Standards for Domestic Water Supply			**6 to 9**				**1,000**
C. Standards for Irrigation Use							

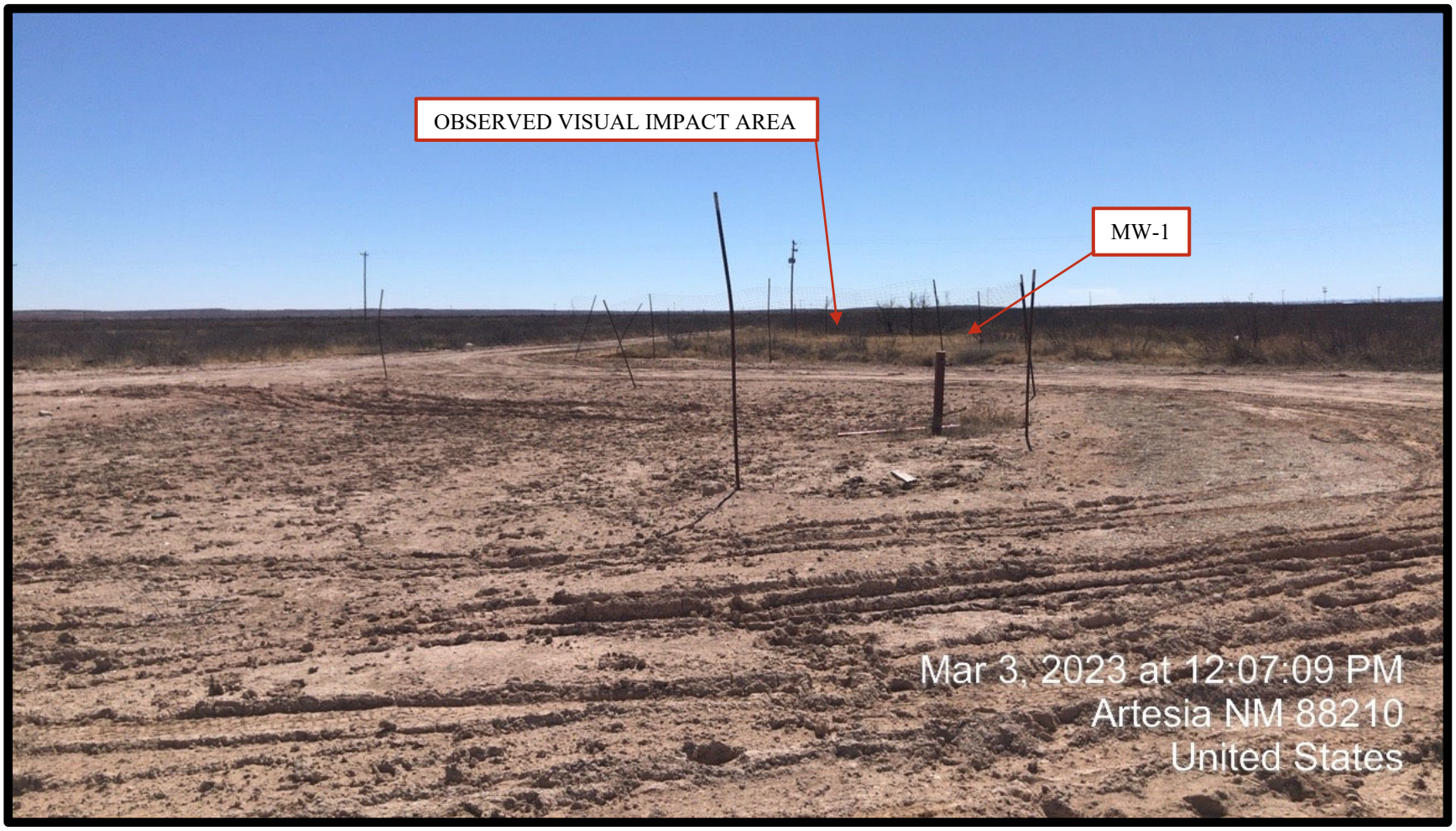
Notes:
1. Exceedances of the listed closure criteria are highlighted in bold, red type.

ATTACHMENT 1 – SITE PHOTOGRAPHS

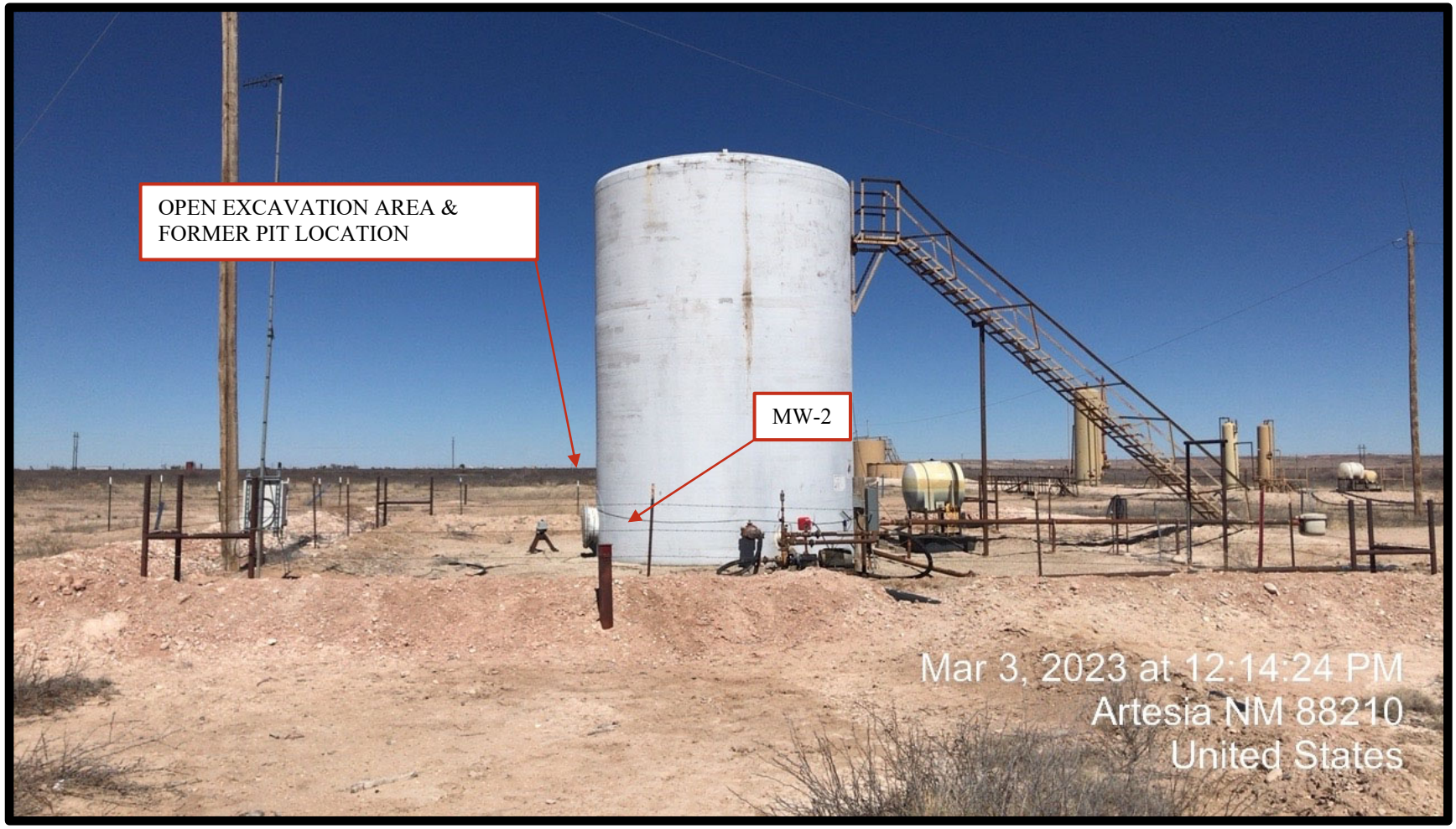


PHOTOGRAPH NO. 1 – A current view of the Site with the former pit location and two monitor wells visible. The view is towards the northwest.

(Approximate GPS: 32.713321, -104.342552)

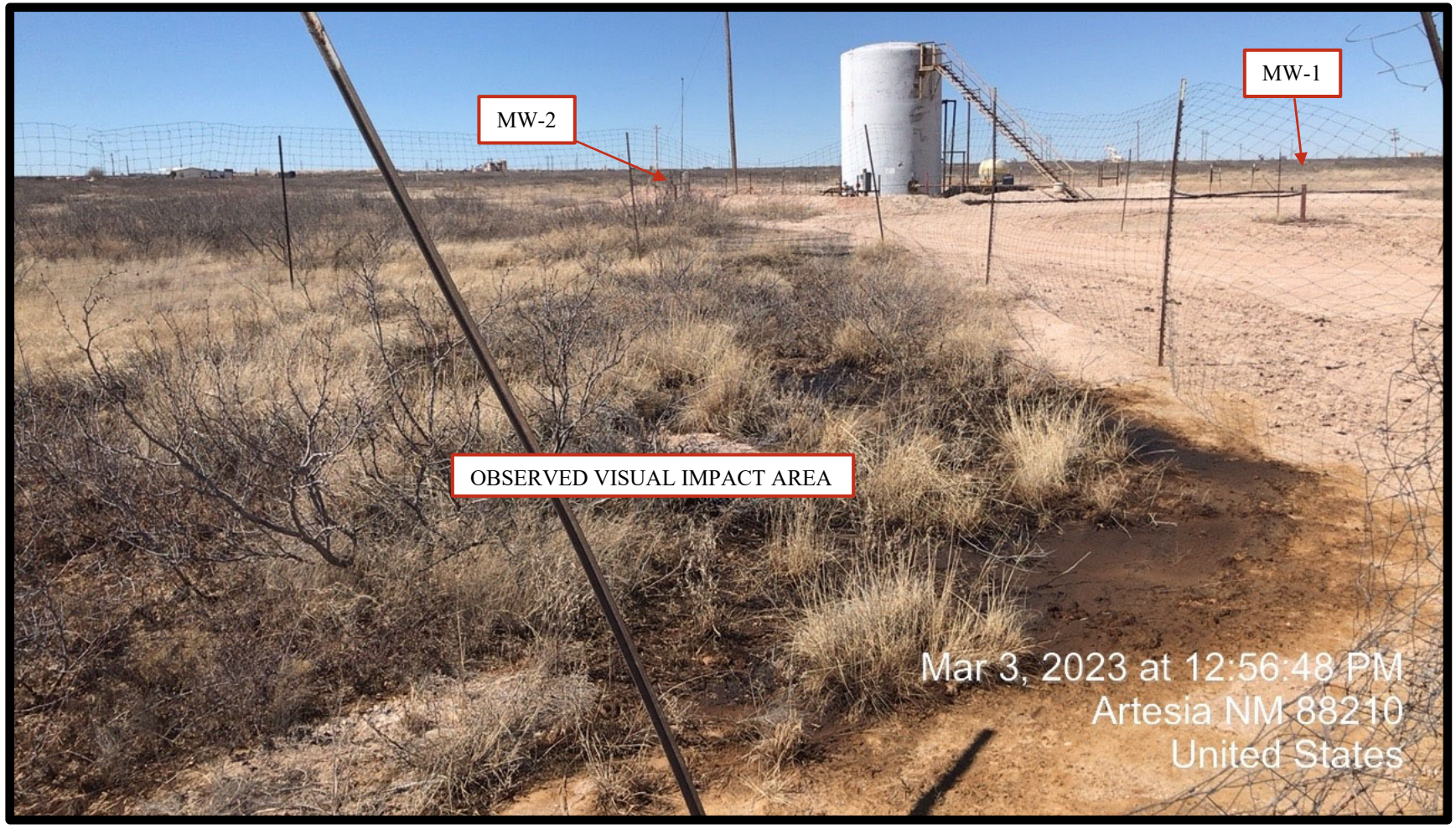


PHOTOGRAPH NO. 2 – A view of monitor well MW-1 and the area of observed visual impact. The view is towards the south.
(Approximate GPS: 32.713235, -104.342473)



PHOTOGRAPH NO. 3 – A view of monitor well MW-2. The view is towards the north.

(Approximate GPS: 32.723580, -104.348184)



PHOTOGRAPH NO. 4 – A view of visually impacted area located south of MW-1. The view is towards the northwest.
(Approximate GPS: 32.712780, -104.342345)

ATTACHMENT 2 – LABORATORY ANALYTICAL REPORT

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 08, 2024

Will Kierdorf
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Scripps Pit OrderNo.: 2312012

Dear Will Kierdorf:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 12/1/2023 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 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 do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** Trip Blank
Project: Scripps Pit **Collection Date:**
Lab ID: 2312012-001 **Matrix:** TRIP BLANK **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
Toluene	ND	1.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
Ethylbenzene	ND	1.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
Naphthalene	ND	2.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
1-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
2-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 9:30:00 PM	R101602
Xylenes, Total	ND	1.5		µg/L	1	12/5/2023 9:30:00 PM	R101602
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/5/2023 9:30:00 PM	R101602
Surr: Toluene-d8	93.4	70-130		%Rec	1	12/5/2023 9:30:00 PM	R101602

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-1
Project: Scripps Pit **Collection Date:** 11/29/2023 11:10:00 AM
Lab ID: 2312012-002 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA 200.8: DISSOLVED METALS						Analyst: **bcv**	
Antimony	ND	0.0050		mg/L	5	12/4/2023 5:01:08 PM	D101582
Arsenic	0.048	0.0025	*	mg/L	5	12/4/2023 5:01:08 PM	D101582
Lead	ND	0.0025		mg/L	5	12/4/2023 5:01:08 PM	D101582
Selenium	0.093	0.0050	*	mg/L	5	12/4/2023 5:01:08 PM	D101582
Thallium	ND	0.0012		mg/L	5	12/4/2023 5:01:08 PM	D101582
Uranium	0.031	0.0025	*	mg/L	5	12/4/2023 5:01:08 PM	D101582
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	ND	2.0		mg/L	20	12/4/2023 12:51:38 PM	R101597
Chloride	34000	1000	*	mg/L	2E+	12/15/2023 8:44:06 AM	R101873
Bromide	13	2.0		mg/L	20	12/4/2023 12:51:38 PM	R101597
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	12/4/2023 12:51:38 PM	R101597
Sulfate	4200	1000	*	mg/L	2E+	12/15/2023 8:44:06 AM	R101873
Nitrate+Nitrite as N	20	10	*	mg/L	50	12/15/2023 2:21:19 PM	R101873
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MCA**	
Conductivity	50000	100	D	µmhos/c	10	12/14/2023 1:35:33 PM	R101850
SM2320B: ALKALINITY						Analyst: **MCA**	
Bicarbonate (As CaCO3)	173.3	20.00		mg/L Ca	1	12/6/2023 3:25:35 PM	R101661
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	12/6/2023 3:25:35 PM	R101661
Total Alkalinity (as CaCO3)	173.3	20.00		mg/L Ca	1	12/6/2023 3:25:35 PM	R101661
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	33100	250	*D	mg/L	1	12/7/2023 12:11:00 PM	79151
SM4500-H+B / 9040C: PH						Analyst: **MCA**	
pH	7.00		H	pH units	1	12/6/2023 3:25:35 PM	R101661
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Aluminum	0.025	0.020		mg/L	1	12/12/2023 9:08:24 AM	A101766
Barium	0.021	0.0030		mg/L	1	12/12/2023 9:08:24 AM	A101766
Beryllium	ND	0.0020		mg/L	1	12/12/2023 9:08:24 AM	A101766
Boron	0.27	0.040		mg/L	1	12/12/2023 9:08:24 AM	A101766
Cadmium	ND	0.0020		mg/L	1	12/12/2023 9:08:24 AM	A101766
Calcium	2500	100		mg/L	100	12/12/2023 12:07:23 PM	A101766
Chromium	ND	0.0060		mg/L	1	12/12/2023 9:08:24 AM	A101766
Cobalt	ND	0.0060		mg/L	1	12/12/2023 9:08:24 AM	A101766
Copper	ND	0.0060		mg/L	1	12/12/2023 9:08:24 AM	A101766
Iron	ND	0.020		mg/L	1	12/12/2023 9:08:24 AM	A101766
Magnesium	2000	100		mg/L	100	12/12/2023 12:07:23 PM	A101766
Manganese	ND	0.0020		mg/L	1	12/12/2023 9:08:24 AM	A101766

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-1
Project: Scripps Pit **Collection Date:** 11/29/2023 11:10:00 AM
Lab ID: 2312012-002 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Molybdenum	ND	0.0080		mg/L	1	12/12/2023 9:08:24 AM	A101766
Nickel	ND	0.010		mg/L	1	12/12/2023 9:08:24 AM	A101766
Potassium	5.6	1.0		mg/L	1	12/12/2023 9:08:24 AM	A101766
Silver	0.042	0.0050		mg/L	1	12/12/2023 9:08:24 AM	A101766
Sodium	4500	100		mg/L	100	12/12/2023 12:07:23 PM	A101766
Zinc	ND	0.010		mg/L	1	12/12/2023 9:08:24 AM	A101766
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
Toluene	ND	1.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
Ethylbenzene	ND	1.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
Naphthalene	ND	2.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
1-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
2-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 9:54:00 PM	R101602
Xylenes, Total	ND	1.5		µg/L	1	12/5/2023 9:54:00 PM	R101602
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/5/2023 9:54:00 PM	R101602
Surr: Toluene-d8	91.7	70-130		%Rec	1	12/5/2023 9:54:00 PM	R101602

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-2
Project: Scripps Pit **Collection Date:** 11/29/2023 10:28:00 AM
Lab ID: 2312012-003 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA 200.8: DISSOLVED METALS						Analyst: **bcv**	
Antimony	ND	0.0050		mg/L	5	12/4/2023 5:03:26 PM	D101582
Arsenic	0.014	0.0025	*	mg/L	5	12/4/2023 5:03:26 PM	D101582
Lead	ND	0.0025		mg/L	5	12/4/2023 5:03:26 PM	D101582
Selenium	0.017	0.0050		mg/L	5	12/4/2023 5:03:26 PM	D101582
Thallium	ND	0.0012		mg/L	5	12/4/2023 5:03:26 PM	D101582
Uranium	0.011	0.0025		mg/L	5	12/4/2023 5:03:26 PM	D101582
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	ND	2.0		mg/L	20	12/4/2023 1:19:13 PM	R101597
Chloride	6100	250	*	mg/L	500	12/15/2023 8:56:58 AM	R101873
Bromide	3.7	2.0		mg/L	20	12/4/2023 1:19:13 PM	R101597
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	12/4/2023 1:04:29 PM	R101597
Sulfate	2400	250	*	mg/L	500	12/15/2023 8:56:58 AM	R101873
Nitrate+Nitrite as N	ND	4.0		mg/L	20	12/15/2023 2:34:11 PM	R101873
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MCA**	
Conductivity	24000	100	D	µmhos/c	10	12/14/2023 1:38:23 PM	R101850
SM2320B: ALKALINITY						Analyst: **MCA**	
Bicarbonate (As CaCO3)	216.4	20.00		mg/L Ca	1	12/6/2023 5:36:59 PM	R101661
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	12/6/2023 5:36:59 PM	R101661
Total Alkalinity (as CaCO3)	216.4	20.00		mg/L Ca	1	12/6/2023 5:36:59 PM	R101661
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	13500	250	*D	mg/L	1	12/7/2023 12:11:00 PM	79151
SM4500-H+B / 9040C: PH						Analyst: **MCA**	
pH	7.37		H	pH units	1	12/6/2023 5:36:59 PM	R101661
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Aluminum	ND	0.020		mg/L	1	12/11/2023 4:28:48 PM	D101749
Barium	0.0099	0.0030		mg/L	1	12/12/2023 9:24:03 AM	A101766
Beryllium	ND	0.0020		mg/L	1	12/12/2023 9:24:03 AM	A101766
Boron	0.41	0.040		mg/L	1	12/12/2023 9:24:03 AM	A101766
Cadmium	ND	0.0020		mg/L	1	12/12/2023 9:24:03 AM	A101766
Calcium	720	10		mg/L	10	12/12/2023 12:10:34 PM	A101766
Chromium	ND	0.0060		mg/L	1	12/12/2023 9:24:03 AM	A101766
Cobalt	ND	0.0060		mg/L	1	12/12/2023 9:24:03 AM	A101766
Copper	ND	0.0060		mg/L	1	12/12/2023 9:24:03 AM	A101766
Iron	ND	0.020		mg/L	1	12/12/2023 9:24:03 AM	A101766
Magnesium	410	5.0		mg/L	5	12/12/2023 9:27:40 AM	A101766
Manganese	0.0091	0.0020		mg/L	1	12/12/2023 9:24:03 AM	A101766

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-2
Project: Scripps Pit **Collection Date:** 11/29/2023 10:28:00 AM
Lab ID: 2312012-003 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Molybdenum	ND	0.0080		mg/L	1	12/12/2023 9:24:03 AM	A101766
Nickel	ND	0.010		mg/L	1	12/12/2023 9:24:03 AM	A101766
Potassium	13	1.0		mg/L	1	12/12/2023 9:24:03 AM	A101766
Silver	0.015	0.0050		mg/L	1	12/12/2023 9:24:03 AM	A101766
Sodium	3600	50		mg/L	50	12/12/2023 12:13:36 PM	A101766
Zinc	ND	0.010		mg/L	1	12/12/2023 9:24:03 AM	A101766
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
Toluene	ND	1.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
Ethylbenzene	ND	1.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
Naphthalene	ND	2.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
1-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
2-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 10:18:00 PM	R101602
Xylenes, Total	ND	1.5		µg/L	1	12/5/2023 10:18:00 PM	R101602
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/5/2023 10:18:00 PM	R101602
Surr: Toluene-d8	91.4	70-130		%Rec	1	12/5/2023 10:18:00 PM	R101602

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-3
Project: Scripps Pit **Collection Date:** 11/29/2023 8:56:00 AM
Lab ID: 2312012-004 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA 200.8: DISSOLVED METALS						Analyst: **bcv**	
Antimony	ND	0.0050		mg/L	5	12/4/2023 5:05:44 PM	D101582
Arsenic	0.012	0.0025	*	mg/L	5	12/4/2023 5:05:44 PM	D101582
Lead	ND	0.0025		mg/L	5	12/4/2023 5:05:44 PM	D101582
Selenium	0.011	0.0050		mg/L	5	12/4/2023 5:05:44 PM	D101582
Thallium	ND	0.0012		mg/L	5	12/4/2023 5:05:44 PM	D101582
Uranium	0.0069	0.0025		mg/L	5	12/4/2023 5:05:44 PM	D101582
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	ND	2.0		mg/L	20	12/4/2023 1:46:23 PM	R101597
Chloride	4000	250	*	mg/L	500	12/15/2023 9:09:50 AM	R101873
Bromide	2.8	2.0		mg/L	20	12/4/2023 1:46:23 PM	R101597
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	12/4/2023 1:32:03 PM	R101597
Sulfate	1900	250	*	mg/L	500	12/15/2023 9:09:50 AM	R101873
Nitrate+Nitrite as N	ND	4.0		mg/L	20	12/15/2023 2:47:03 PM	R101873
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MCA**	
Conductivity	17000	100	D	µmhos/c	10	12/14/2023 1:46:46 PM	R101850
SM2320B: ALKALINITY						Analyst: **MCA**	
Bicarbonate (As CaCO3)	228.8	20.00		mg/L Ca	1	12/6/2023 5:49:14 PM	R101661
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	12/6/2023 5:49:14 PM	R101661
Total Alkalinity (as CaCO3)	228.8	20.00		mg/L Ca	1	12/6/2023 5:49:14 PM	R101661
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	9780	250	*D	mg/L	1	12/7/2023 12:11:00 PM	79151
SM4500-H+B / 9040C: PH						Analyst: **MCA**	
pH	7.36		H	pH units	1	12/6/2023 5:49:14 PM	R101661
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Aluminum	ND	0.020		mg/L	1	12/11/2023 4:31:12 PM	D101749
Barium	0.011	0.0030		mg/L	1	12/12/2023 9:31:06 AM	A101766
Beryllium	ND	0.0020		mg/L	1	12/12/2023 9:31:06 AM	A101766
Boron	0.22	0.040		mg/L	1	12/12/2023 9:31:06 AM	A101766
Cadmium	ND	0.0020		mg/L	1	12/12/2023 9:31:06 AM	A101766
Calcium	680	10		mg/L	10	12/12/2023 12:16:39 PM	A101766
Chromium	ND	0.0060		mg/L	1	12/12/2023 9:31:06 AM	A101766
Cobalt	ND	0.0060		mg/L	1	12/12/2023 9:31:06 AM	A101766
Copper	ND	0.0060		mg/L	1	12/12/2023 9:31:06 AM	A101766
Iron	0.077	0.020		mg/L	1	12/12/2023 9:31:06 AM	A101766
Magnesium	410	5.0		mg/L	5	12/12/2023 9:34:58 AM	A101766
Manganese	0.071	0.0020	*	mg/L	1	12/12/2023 9:31:06 AM	A101766

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-3
Project: Scripps Pit **Collection Date:** 11/29/2023 8:56:00 AM
Lab ID: 2312012-004 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Molybdenum	ND	0.0080		mg/L	1	12/12/2023 9:31:06 AM	A101766
Nickel	ND	0.010		mg/L	1	12/12/2023 9:31:06 AM	A101766
Potassium	8.2	1.0		mg/L	1	12/12/2023 9:31:06 AM	A101766
Silver	0.012	0.0050		mg/L	1	12/12/2023 9:31:06 AM	A101766
Sodium	2100	50		mg/L	50	12/12/2023 12:19:38 PM	A101766
Zinc	ND	0.010		mg/L	1	12/12/2023 9:31:06 AM	A101766
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
Toluene	ND	1.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
Ethylbenzene	ND	1.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
Naphthalene	ND	2.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
1-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
2-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 10:43:00 PM	R101602
Xylenes, Total	ND	1.5		µg/L	1	12/5/2023 10:43:00 PM	R101602
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/5/2023 10:43:00 PM	R101602
Surr: Toluene-d8	91.9	70-130		%Rec	1	12/5/2023 10:43:00 PM	R101602

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-4
Project: Scripps Pit **Collection Date:** 11/29/2023 9:42:00 AM
Lab ID: 2312012-005 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA 200.8: DISSOLVED METALS						Analyst: **bcv**	
Antimony	ND	0.0050		mg/L	5	12/4/2023 5:08:03 PM	D101582
Arsenic	0.041	0.0025	*	mg/L	5	12/4/2023 5:08:03 PM	D101582
Lead	ND	0.0025		mg/L	5	12/4/2023 5:08:03 PM	D101582
Selenium	0.0078	0.0050		mg/L	5	12/4/2023 5:08:03 PM	D101582
Thallium	ND	0.0012		mg/L	5	12/4/2023 5:08:03 PM	D101582
Uranium	0.016	0.0025		mg/L	5	12/4/2023 5:08:03 PM	D101582
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	ND	2.0		mg/L	20	12/4/2023 2:12:05 PM	R101597
Chloride	20000	1000	*	mg/L	2E+	12/15/2023 9:22:38 AM	R101873
Bromide	8.9	2.0		mg/L	20	12/4/2023 2:12:05 PM	R101597
Phosphorus, Orthophosphate (As P)	ND	10	H	mg/L	20	12/4/2023 2:12:05 PM	R101597
Sulfate	2500	1000	*	mg/L	2E+	12/15/2023 9:22:38 AM	R101873
Nitrate+Nitrite as N	ND	20		mg/L	100	12/15/2023 2:59:55 PM	R101873
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MCA**	
Conductivity	65000	100	D	µmhos/c	10	12/14/2023 1:49:34 PM	R101850
SM2320B: ALKALINITY						Analyst: **MCA**	
Bicarbonate (As CaCO3)	227.2	20.00		mg/L Ca	1	12/6/2023 6:14:32 PM	R101661
Carbonate (As CaCO3)	ND	2.000		mg/L Ca	1	12/6/2023 6:14:32 PM	R101661
Total Alkalinity (as CaCO3)	227.2	20.00		mg/L Ca	1	12/6/2023 6:14:32 PM	R101661
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	7700	50.0	*	mg/L	1	12/7/2023 12:11:00 PM	79151
SM4500-H+B / 9040C: PH						Analyst: **MCA**	
pH	7.11		H	pH units	1	12/6/2023 6:14:32 PM	R101661
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Aluminum	0.023	0.020		mg/L	1	12/12/2023 9:38:15 AM	A101766
Barium	0.019	0.0030		mg/L	1	12/12/2023 9:38:15 AM	A101766
Beryllium	ND	0.0020		mg/L	1	12/12/2023 9:38:15 AM	A101766
Boron	0.74	0.040		mg/L	1	12/12/2023 9:38:15 AM	A101766
Cadmium	ND	0.0020		mg/L	1	12/12/2023 9:38:15 AM	A101766
Calcium	2500	100		mg/L	100	12/12/2023 12:26:09 PM	A101766
Chromium	ND	0.0060		mg/L	1	12/12/2023 9:38:15 AM	A101766
Cobalt	ND	0.0060		mg/L	1	12/12/2023 9:38:15 AM	A101766
Copper	ND	0.0060		mg/L	1	12/12/2023 9:38:15 AM	A101766
Iron	ND	0.020		mg/L	1	12/12/2023 9:38:15 AM	A101766
Magnesium	840	10		mg/L	10	12/12/2023 12:22:40 PM	A101766
Manganese	0.085	0.0020	*	mg/L	1	12/12/2023 9:38:15 AM	A101766

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

Qualifiers:

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D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2312012**
Date Reported: **1/8/2024**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** MW-4
Project: Scripps Pit **Collection Date:** 11/29/2023 9:42:00 AM
Lab ID: 2312012-005 **Matrix:** AQUEOUS **Received Date:** 12/1/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **VP**	
Molybdenum	ND	0.0080		mg/L	1	12/12/2023 9:38:15 AM	A101766
Nickel	ND	0.010		mg/L	1	12/12/2023 9:38:15 AM	A101766
Potassium	22	1.0		mg/L	1	12/12/2023 9:38:15 AM	A101766
Silver	0.040	0.0050		mg/L	1	12/12/2023 9:38:15 AM	A101766
Sodium	9800	100		mg/L	100	12/12/2023 12:26:09 PM	A101766
Zinc	ND	0.010		mg/L	1	12/12/2023 9:38:15 AM	A101766
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **CCM**	
Benzene	ND	1.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
Toluene	ND	1.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
Ethylbenzene	ND	1.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
Naphthalene	ND	2.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
1-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
2-Methylnaphthalene	ND	4.0		µg/L	1	12/5/2023 11:07:00 PM	R101602
Xylenes, Total	ND	1.5		µg/L	1	12/5/2023 11:07:00 PM	R101602
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/5/2023 11:07:00 PM	R101602
Surr: Toluene-d8	92.6	70-130		%Rec	1	12/5/2023 11:07:00 PM	R101602

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	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **MB-D**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **D101749**	RunNo: **101749**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749970** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								

Sample ID: **LCS-D**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **D101749**	RunNo: **101749**
Prep Date:	Analysis Date: **12/11/2023**	SeqNo: **3749972** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.48	0.020	0.5000	0	97.0	85	115			

Sample ID: **MB-A**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **A101766**	RunNo: **101766**
Prep Date:	Analysis Date: **12/12/2023**	SeqNo: **3750832** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0030								
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-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A101766**	RunNo: **101766**
Prep Date:	Analysis Date: **12/12/2023**	SeqNo: **3750837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.46	0.020	0.5000	0	92.6	85	115			
Barium	0.48	0.0030	0.5000	0	95.3	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **LCS-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A101766**	RunNo: **101766**
Prep Date:	Analysis Date: **12/12/2023**	SeqNo: **3750837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	0.48	0.0020	0.5000	0	95.7	85	115			
Boron	0.48	0.040	0.5000	0	95.7	85	115			
Cadmium	0.47	0.0020	0.5000	0	94.5	85	115			
Chromium	0.48	0.0060	0.5000	0	95.7	85	115			
Cobalt	0.48	0.0060	0.5000	0	95.0	85	115			
Copper	0.48	0.0060	0.5000	0	95.4	85	115			
Iron	0.49	0.020	0.5000	0	97.2	85	115			
Manganese	0.48	0.0020	0.5000	0	95.2	85	115			
Molybdenum	0.47	0.0080	0.5000	0	94.8	85	115			
Nickel	0.48	0.010	0.5000	0	95.0	85	115			
Silver	0.48	0.0050	0.5000	0	96.1	85	115			
Zinc	0.48	0.010	0.5000	0	95.3	85	115			

Sample ID: **LCS_CAT-A**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **A101766**	RunNo: **101766**
Prep Date:	Analysis Date: **12/12/2023**	SeqNo: **3750839** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0	102	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	50	1.0	50.00	0	101	85	115			
Sodium	51	1.0	50.00	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **D101582**	RunNo: **101582**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3740702** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.00050								
Lead	ND	0.00050								
Selenium	ND	0.0010								
Thallium	ND	0.00025								
Uranium	ND	0.00050								

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **D101582**	RunNo: **101582**
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3740704** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.024	0.0010	0.02500	0	97.1	85	115			
Arsenic	0.025	0.00050	0.02500	0	99.0	85	115			
Lead	0.013	0.00050	0.01250	0	100	85	115			
Selenium	0.024	0.0010	0.02500	0	97.3	85	115			
Thallium	0.012	0.00025	0.01250	0	99.7	85	115			
Uranium	0.012	0.00050	0.01250	0	99.3	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101597**	RunNo: **101597**							
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741802**	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: **R101597**	RunNo: **101597**							
Prep Date:	Analysis Date: **12/4/2023**	SeqNo: **3741803**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	90	110			
Bromide	2.4	0.10	2.500	0	97.7	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.9	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756389**	Units: **mg/L**						
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: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756390**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.2	90	110			
Sulfate	9.9	0.50	10.00	0	99.3	90	110			
Nitrate+Nitrite as N	3.6	0.20	3.500	0	102	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756424**	Units: **mg/L**						
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								

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756425**	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	96.7	90	110			
Sulfate	9.8	0.50	10.00	0	98.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756452**	Units: **mg/L**						
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: **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R101873**	RunNo: **101873**							
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3756453**	Units: **mg/L**						
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			
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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **100ng lcs 3**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R101602**	RunNo: **101602**
Prep Date:	Analysis Date: **12/5/2023**	SeqNo: **3742765** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130			
Toluene	19	1.0	20.00	0	94.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.4		10.00		94.0	70	130			

Sample ID: **mb 3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R101602**	RunNo: **101602**
Prep Date:	Analysis Date: **12/5/2023**	SeqNo: **3742766** 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	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **LCS-1 99.8uS eC**	SampType: **LCS**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R101850**	RunNo: **101850**
Prep Date:	Analysis Date: **12/14/2023**	SeqNo: **3755143** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	99	10	99.80	0	99.5	85	115			

Sample ID: **LCS-2 99.8uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R101850**	RunNo: **101850**
Prep Date:	Analysis Date: **12/14/2023**	SeqNo: **3755169** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.80	0	102	85	115			

Sample ID: **LCS-3 99.8uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R101850**	RunNo: **101850**
Prep Date:	Analysis Date: **12/14/2023**	SeqNo: **3755195** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.80	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/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#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **MB-1 Alk**	SampType: **MBLK**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R101661**	RunNo: **101661**							
Prep Date:	Analysis Date: **12/6/2023**	SeqNo: **3744722**	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: **R101661**	RunNo: **101661**							
Prep Date:	Analysis Date: **12/6/2023**	SeqNo: **3744723**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	76.56	20.00	80.00	0	95.7	90	110			

Sample ID: **MB-2 alk**	SampType: **MBLK**	TestCode: **SM2320B: Alkalinity**							
Client ID: **PBW**	Batch ID: **R101661**	RunNo: **101661**							
Prep Date:	Analysis Date: **12/6/2023**	SeqNo: **3744746**	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: **R101661**	RunNo: **101661**							
Prep Date:	Analysis Date: **12/6/2023**	SeqNo: **3744747**	Units: **mg/L CaCO3**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	74.08	20.00	80.00	0	92.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2312012**

08-Jan-24

Client: EOG

Project: Scripps Pit

Sample ID: **MB-79151**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **79151**	RunNo: **101673**
Prep Date: **12/5/2023**	Analysis Date: **12/7/2023**	SeqNo: **3745133** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-79151**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **79151**	RunNo: **101673**
Prep Date: **12/5/2023**	Analysis Date: **12/7/2023**	SeqNo: **3745134** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1090	50.0	1000	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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: EOG | Work Order Number: 2312012 | RcptNo: 1

Received By: Juan Rojas 12/1/2023 7:45:00 AM

Completed By: Cheyenne Cason 12/1/2023 9:03:05 AM

Reviewed By: JR 12/1/23

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: 4

(<2 or >12 unless noted)

Adjusted? NO

Checked by: SCM 12/1/23

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: TRIP BLANKS NOT PROVIDED BY EUROFINS SOUTH CENTRAL. SCM 12/1/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present	Yogi		

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ NELAC ☐ Other

■ EDD (Type) Excel

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: SCRIPPS PIT

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.9+0.1=3.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 231202	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)	BTEX NAPHTHALENE	WQCC Dissolved Metals	Cations Anions	TDS	pH	SP. Conductance
11/29/23	—	AQ	TRIP BLANK	2 VOAs	HCl	001				X					
11/29/23	1110	AQ	MW-1	6	SEE NOTES	002				X	X	X	X	X	X
11/29/23	1028	AQ	MW-2	6		003				X	X	X	X	X	X
11/29/23	0856	AQ	MW-3	6		004				X	X	X	X	X	X
11/29/23	0942	AQ	MW-4	6		005				X	X	X	X	X	X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
11/30/23	0832				11/30/23	0832
11/30/23	1900			Courier	12/1/23	7:45

Remarks: Bill to EOG Artesia
CONTAINER TYPES
3 x 40 mL HCl VOAs
1 x 500 mL PLASTIC (UNP.)
1 x 125 mL PLASTIC (H2SO4) & 1 x 125 mL PLASTIC (HNO3)

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 repo

ATTACHMENT 3 – NMOCD CORRESPONDENCE

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, November 21, 2023 9:24 AM
To: Miriam Morales <Miriam_Morales@eogresources.com>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Scripps Pit (NAUTOFAB000640) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Miriam,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Tuesday, November 21, 2023 9:24 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Scripps Pit (NAUTOFAB000640) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.
Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location. (Due to the holiday this week, this is going out early)

Scripps Pit
M-26-18S-26E
Eddy County, NM
NAUTOFAB000640

Sampling will begin at 8:00 a.m. on Wednesday, November 29, 2023.

Thank you,

Miriam Morales

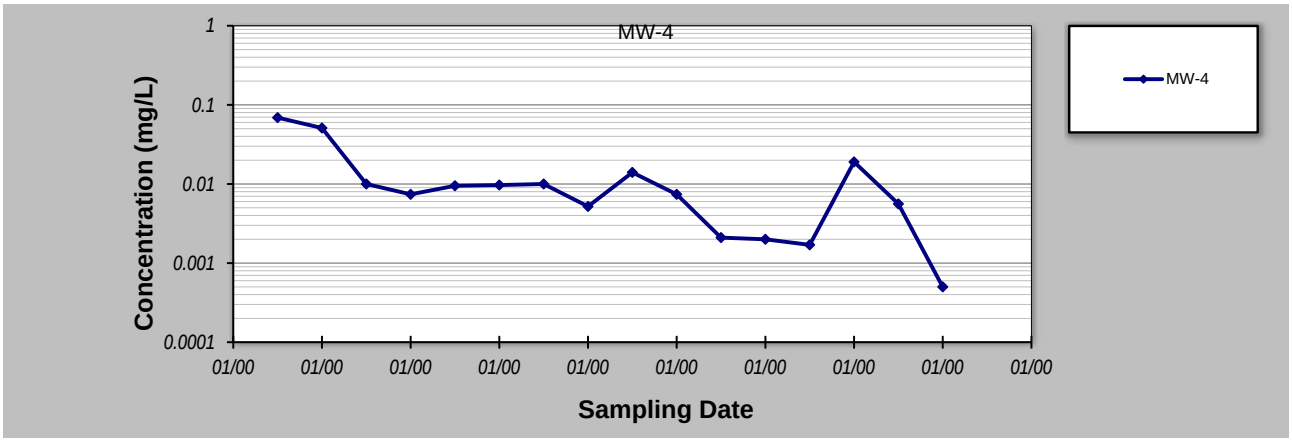
ATTACHMENT 4 – GSI MANN-KENDALL TOOLKIT: MW-4 BENZENE TREND ANALYSIS

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date: 5-Mar-24
Facility Name: SCRIPP PIT (AP-25)
Conducted By: P. Finn
Job ID: 5375
Constituent: Benzene
Concentration Units: mg/L

Sampling Point ID: MW-4

Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)
1	19-Sep-02	0.069
2	8-Nov-04	0.051
3	17-Mar-12	0.01
4	18-Jun-12	0.0074
5	12-Sep-12	0.0095
6	7-Dec-12	0.0097
7	12-Mar-13	0.01
8	27-Jun-13	0.0052
9	28-Mar-18	0.014
10	11-Mar-19	0.0074
11	29-Oct-19	0.0021
12	18-Sep-20	0.002
13	24-Aug-21	0.0017
14	22-Mar-22	0.019
15	3-Aug-22	0.0056
16	11/29/2023	0.0005
17		
18		
19		
20		
Coefficient of Variation:		1.35
Mann-Kendall Statistic (S):		-62
Confidence Factor:		99.8%
Concentration Trend:		Decreasing



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

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 329525

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 329525
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Scripp Pit Annual Groundwater Report for calendar year 2023 accepted as part of the record. App ID: 329525	9/20/2024