



ENSOLUM

2024 GROUNDWATER MONITORING SUMMARY

Property:

**Empire Abo Gas Plant
Unit I N/E4, S/E4 Township 18 South, Range 27 East
Eddy County, New Mexico
NMOCD Abatement Permit AP-112**

April 11, 2025

Prepared for:

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum), on behalf of AKA Energy Group, LLC (AKA), presents this *2024 Annual Groundwater Monitoring Summary* outlining results and findings of groundwater sampling conducted at the Empire Abo Site (Site). The Site is regulated under the New Mexico Oil Conservation Division (NMOCD), a division of the Energy, Minerals, and Natural Resources Department (EMNRD) as abatement permit AP-112. The Site is located on private surface in Unit I (northeast quarter of the southeast quarter), Section 3, Township 18 South, Range 27 East, in Eddy County, New Mexico. Coordinates of the Site are 32.777056° N, 104.259083° W (Figure 1). Since its construction in 1961, the Site has historically undergone multiple commercial acquisitions along with extensive groundwater testing, remediation, and proposed plans. Most recently, the Empire Abo Gas Plant was sold by Frontier Field Services, LLC (an entity of AKA) in March 2019, though AKA remained liable for multiple environmental conditions at the Site. As such, AKA retained Ensolum to provide continuing groundwater monitoring services, as further described below. The current configuration of the Site is shown on Figure 2.

2.0 SITE BACKGROUND

The Site was constructed in 1961 by Amoco Production Company and was operated as a natural gas processing plant. It was converted into a natural gas compressor and booster station in March 2019 upon being sold to Durango Midstream Services LLC, by Frontier Field Services, LLC (Frontier, an entity of AKA). AKA retained multiple environmental liabilities for the Site, including soil, groundwater, and phase separate hydrocarbons (PSH, also known as light non-aqueous phase liquids or LNAPL) monitoring and remediation, as well as for residual polychlorinated biphenyls (PCBs) found in soil and concrete at the facility.

Prior to this sale and conversion to a compression facility, Frontier submitted a *Groundwater Abatement Plan* (Larson & Associates, 2013) to the NMOCD to address impacted groundwater. According to the *2021 Annual Groundwater Monitoring and Remediation Report* (Larson & Associates, 2022), this abatement plan was subject to the New Mexico Office of the State Engineer's (NMOSE) approval of Frontier's request to "extract groundwater for remediation and disposal contingent upon permitting, installation, and start-up of a disposal (saltwater disposal (SWD) or acid gas injection (AGI)) well permitted through NMOCD". Approved on March 8, 2013, the NMOSE concluded groundwater remediation activities would not significantly impact the nearby Pecos River, and there are no existing water wells within 2 miles of the Site.

Per the *2021 Annual Groundwater Monitoring and Remediation Report*, PSH was identified at the Site in the form of natural gas condensate on groundwater along with dissolved benzene in groundwater. Both resulted from subsurface piping historically releasing natural gas condensate and were found to be present in five areas of the Site: southeast, southwest, east-central, west-central, and northeast. Per the same report, groundwater at the Site contained both elevated sulfate and total dissolved solids (TDS) concentrations exceeding the New Mexico Water Quality Control Commission (NMWQCC) domestic water quality standards, likely a result of naturally occurring gypsum dissolution in the Tansill Formation.

Per an email exchange with NMOCD in October 2017, Larson (representing AKA) proposed several amendments to the abatement plan including reducing the number of wells sampled during semi-annual groundwater monitoring events, the addition of several different wells to be sampled starting at the next semi-annual event (October 2017), conducting soil vapor extraction (SVE) and air sparge (AS) pilot tests, and installing an AS pilot well. In an effort to remediate PSH in soil and groundwater, Frontier selected SVE techniques, as opposed to pump and dispose (recovery wells), in August of 2018. This election of SVE was purportedly included in Frontier's *Groundwater Abatement Plan Amendment*, submitted to NMOCD on March 12, 2018. NMOCD approved these requests upon the condition and reinforcement that the reduction in semi-annual groundwater well sampling was only a reduction in wells to be monitored and not approval to abandon those wells. Additionally, the NMOCD approved AKA's request to analyze groundwater samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) during each semi-annual monitoring event and once annually for cations (calcium, magnesium, potassium, and sodium), anions (alkalinity, chloride, and sulfate) and TDS.

2.1 SITE REMEDIATION ACTIVITIES

Between August 2018 and August 2019, AKA performed groundwater remediation activities to address the presence of PSH and dissolved-phase groundwater contaminants through SVE, AS, and thermal destruction (of impacted vapors) methods. Beginning in August 2019 and after noticeable reductions in contaminant removal, the system was replaced with a mobile, truck-mounted dual-phase SVE and enhanced fluid recovery system. The dual-phase system was operated between August 2019 and January 2022 during 14 individual events of various lengths.

Between 2018 and 2022, the combined vapor recovery of the two systems equaled 113.9 tons of hydrocarbon vapors, 78.1 barrels of hydrocarbon liquid, and 548.21 barrels of water from perched groundwater.

Additionally on November 6, 2020, AKA submitted the report *Empire Abo Gas Plant (AP-112), Soil Remediation Report* (Larson & Associates, 2020) to the NMOCD, which detailed soil remediation work performed between February and April 2020. The remediation was performed according to New Mexico Administrative Code (NMAC) 19.15.29 standards and resulted in removal of 8,108.65 cubic yards (ton equivalent) of soil and rock impacted by hydrocarbons from nine areas of the Site. The NMOCD responded on December 30, 2020, with closure approval of four areas, having met the NMOCD Table I Closure Criteria listed in 19.15.29 NMAC with no further remediation required.

In the *2021 Empire Abo Gas Plant (AP-112) Groundwater Monitoring and Remediation Report* (Larson & Associates, 2022), AKA proposed approval from the NMOCD for the following:

- Discontinue SVE remediation of PSH citing technical infeasibility to recover and remove remaining PSH;
- Allow natural attenuation of the dissolved benzene in groundwater based on previous reductions in concentration, as well as the argument that no existing water wells were located within 2 miles of the Site;
- Discontinue groundwater monitoring at the Site; and
- “Conditional closure and release from future liability since AKA no longer owns or operates the Facility”.

2.2 TECHNICAL INFEASIBILITY APPROACH

Based on discussions with the NMOCD, AKA subsequently submitted the *Empire Abo Gas Plant (AP-112) Remediation and Technical Infeasibility Report* (Larson & Associates, 2022) to the NMOCD and stated the following conclusions and recommendations :

1. “AKA believes that the fate and transport model demonstrates that dissolved hydrocarbons (benzene) in groundwater will attenuate and reach [Water Quality Control Commission] WQCC human health standard (0.005 milligrams per liter, or mg/L) approximately 16,000 feet down gradient (southeast) from well MW-24 or about 1,345.45 feet up gradient (northwest) from the water well and is supported by removal of the hydrocarbon mass from soil excavation and SVE remediation.
2. AKA believes time (13.4152 to 58.29 years) and expense (\$31,795,682.49) adequately demonstrates technical infeasibility to recover residual PSH primarily as vapors from the capillary fringe.
3. AKA requests approval to discontinue groundwater monitoring at the Facility.
4. AKA requests conditional closure and release from future liability since it no longer owns or operates the Facility.”

In an electronic correspondence dated January 5, 2023, the NMOCD denied this closure request and technical infeasibility demonstration. The NMOCD suggested the “pursuit of closure via technical infeasibility per Paragraph 3 of Subsection E of 19.15.30.9 or by filing a petition seeking approval of alternative abatement standards under Subsection F of 19.15.30.9 NMAC. Under the latter, AKA Energy must state the alternative standards it seeks for wells containing PSH.” The NMOCD also clarified while the technical infeasibility is still denied, AKA Energy “must specifically include a transport, fate and risk assessment” within their petition for alternative abatement and “must also identify the abatement standard from which petitioner wishes to vary, identify the water

contaminant for which the petitioner proposes the alternative standard, and state the alternative standard being proposed and all the standards listed in Subsection F of 19.15.30.9 NMAC.”

2.3 PETITION FOR ALTERNATIVE ABATEMENT STANDARDS

In response to this denial, Larson submitted an *Alternate Abatement Standard Petition (AP-112)* (2023). Per the petition, it “seeks an alternate abatement standard (c) under Subsection F of 19.15.30.9 NMAC” summarizing AKA’s risk assessment, Site-specific risk-based alternative concentrations (SSBRAC) of chemicals of concern (COC), and a fate and transport model, all of which were performed at the Site in February 2023. Groundwater samples were collected from wells known to contain PSH and were analyzed for the COCs benzene, ethylbenzene, and 1, 3, 5-trimethylbenzene. The fate and transport modeling was performed to demonstrate the nearest downgradient water well, located at Bogle Farms, would not be impacted by dissolved hydrocarbons. Per the report, AKA recommended the following SSBRAC resulting from both the risk-assessment and fate and transport modeling:

1. For on-Site shallow groundwater, the SSRBAC for benzene should be set at 0.693 mg/L and 1.53 mg/L for ethylbenzene.
2. For off-Site shallow groundwater, the SSRBAC for benzene should be set at 149 mg/L and 7.8 mg/L for ethylbenzene.
3. For evaluation of shallow groundwater associated with the PSH wells, the SSRBAC for the Facility should be set at 149 mg/L benzene, 7.8 mg/L ethylbenzene, and 796 mg/L 1,3,5-trimethylbenzene.
4. Since on-Site and off-Site groundwater are generally below these recommended SSRBAC and based on the conclusions and recommendations of the previously submitted *Remediation and Technical Infeasibility Report* (Larson & Associates, 2022), use of the SVE system for shallow groundwater remediation should be discontinued.
5. Since on-Site and off-Site groundwater concentrations are at or below the SSRBACs calculated for the most likely completed exposure scenarios, AKA requests approval of the recommended SSRBAC for on-Site and off-Site groundwater for use in evaluation of shallow groundwater remediation and groundwater monitoring and commence plugging monitoring wells on and off site.

On September 5, 2023, the NMOCD responded to the *Alternate Abatement Standard Petition* stating AKA Energy has “not provided tangible evidence toward an approval for an alternate abatement standard for the following reasons:

1. **19.15.30.9 (F) (a):** either compliance with the abatement standards is not feasible, by the maximum use of technology within the responsible person’s economic capacity; or there is no reasonable relationship between the economic and social costs and benefits, including attainment of the standards set forth in 19.15.30.9 NMAC to be obtained.
2. **19.15.30.9 (F) (b):** the proposed alternative standards are technically achievable and cost-benefit justifiable.
3. **19.15.30.9 (F) (c):** compliance with the proposed alternative abatement standard will not create a present or future hazard to public health or undue damage to property.”

AKA submitted an *Addendum to Alternate Abatement Standard Petition (AP-112)* in response to and addressing these concerns on October 15, 2023. The following conclusions and recommendations made by Larson for each NMOCD comment are summarized below:

1. 19.15.30.9 (F) (a): SVE technology had reduced PSH to the maximum extent possible, and decreased benzene below the human health standard in all but three monitoring wells. Shallow (perched) groundwater is not recoverable for domestic or agricultural use due to the thickness of saturation decreasing to the East, South, and West of the Site. To the north, where the greatest saturated thickness lies, TDS concentrations exceed 10,000 mg/L and is not “subject to regulation by the State of New Mexico under NMAC 20.6.2.3103.” Also in the area North of the Site, shallow groundwater sulfate concentrations exceed 4,500 mg/L, therefore is not suitable for livestock use due to the risk of sulfur-associated polio. Sulfate concentrations in shallow groundwater elsewhere exceed 1,500 mg/L (except in MW-08), therefore is not suitable for livestock use due to risk of diarrhea as well as sulfur intake and reduction of copper availability in cattle. Finally, there is “no economic or social benefit to recover the residual PSH (\$31,472,517.28) for shallow (perched) groundwater that covers an area of about 142.34 acres.” In conclusion, “AKA Energy does not believe that the shallow (perched) groundwater requires any further protection, or additional abatement. AKA Energy requests NMOCD to approve closure under natural attenuation to leave approximately 146,896.23 gallons or about 3,486.52 bbl unrecovered in the capillary beneath the Facility, as with 2RP-022.”

2. 19.15.30.9 (F) (b): Various viable methods were used by previous owners and operators in an attempt to reduce PSH thickness and BTEX concentrations, however proved “ineffective and inefficient.” Larson & Associates determined sulfate-reducing bacteria (SRB) are metabolizing dissolved PSH hydrocarbons. Shallow (perched) groundwater has been demonstrated to be “vertically discontinuous with no groundwater encountered below the perched groundwater for 200 feet and terminates or pinches out laterally between about 550 feet (south) and 1,500 feet (north)” from the Site. In conclusion, NMOCD is requested to approve SRB as a viable method of natural attenuation and microbial degradation to abate PSH thickness and BTEX concentrations at the Site.

3. 19.15.30.9 (F) (c): To demonstrate that compliance with the proposed alternative abatement standard will not create a present or future hazard to public health or undue damage to property, Larson outlines the following: shallow (perched) groundwater “pinches out approximately 1,500 feet north of the Facility, about 660 feet west of the Facility, about 1,000 feet east of the Facility and about 550 feet south of the Facility. The saturated thickness diminishes to 0 feet (south) to 0.41 feet (north), 0.35 feet (west), and thins to less than 5 to 10 feet east of the Facility.” This diminishing thickness is what prevents the shallow (perched) groundwater from being used as a domestic or livestock water resource. Since 2006 the shallow (perched) groundwater has been monitored for [Resource Conservation and Recovery Act] RCRA metals (arsenic, barium, cadmium, lead, mercury, selenium, silver), sulfate, chloride, and TDS. Chromium (0.05 mg/L) and arsenic (0.1 mg/L) are reported at concentrations above human health standards. Background chromium was reported at 0.076 mg/L. “The metal constituents (arsenic and chromium) are not pervasive throughout the shallow (perched) groundwater and do not pose a risk to the State of New Mexico water resources, or the environment. On May 3, 2019, NMOCD (Bradford Billings communication) approved AKA Energy’s request to delete metals from groundwater monitoring at the Facility.” According to NMAC 20.6.2.3101 groundwater TDS concentrations exceeding 10,000 mg/L are not subject to regulation by the State of New Mexico. TDS concentrations at Empire Abo exceed 10,000 mg/L over an area of about 25 acres. Sulfate concentrations in shallow (perched) groundwater also exceed domestic water quality standards of 600 mg/L. Chloride concentrations exceed domestic water standards of 250 mg/L in eight monitoring wells ranging from 279 mg/L to 9,950 mg/L. SRB are present in population levels ranging from 569,000 to 3,300,000, which are attenuating and naturally decomposing BTEX. Lastly, “Contradicting Paragraph 3 of Subsection A of 20.6.2.3103 NMAC, NMOCD granted

closure approval under natural attenuation for 2RP-022, with 0.27 feet (May 2016) and 0.69 feet (December 2016) of PSH (condensate) measured and reported on groundwater in shallow monitoring well MW-126.” In conclusion, “AKA Energy requests NMOCD to approve discontinuing groundwater abatement and allow closure under natural attenuation for the Facility, as approved for 2RP-022.”

The NMOCD responded to the *Addendum to Alternate Abatement Standard Petition (AP-112)* in a letter dated January 11, 2024, and stated that AKA again had not provided additional tangible evidence toward an approval for an alternative abatement standard. The NMOCD stated the agency defines groundwater as “interstitial water that occurs in saturated earth material and can enter a well in sufficient amounts to be used as a water supply” and therefore retains its jurisdiction over protection of groundwater at the Site. Additionally, they stated AKA did not provide background sampling data to support their arguments and conclusions regarding groundwater quality located north of the Site.

The NMOCD also responded that “AKA Energy states that “past remediation techniques, by current and past owners, have been utilized without success due to scaling: pump skimmers, groundwater depression, air stripper, hydrophobic absorbent socks. The SVE System has been the most successful of all, except in 3 wells.” However, no data has been provided to OCD to evaluate these technologies nor has a cost comparison been evaluated in the amended report”.

Lastly, the NMOCD disagreed with AKA’s assertion that other abatement sites had achieved closure with the presence of PSH remaining. The NMOCD stated that a letter of conditional approval AKA was referring to allowed the operator to discontinue active remediation, but the operator had to continue groundwater monitoring. Furthermore, the NMOCD stated that “no closure had been approved...and the site remains in active abatement status utilizing a Monitored Natural Attenuation (MNA) remediation method”.

In conclusion, the NMOCD stated that “after review of the Addendum, the OCD has determined AKA Energy’s response to be insufficient in providing enough additional evidence to determination that monitored natural attenuation by sulfur reducing bacteria (SRB) will sufficiently and effectively reduce PSH to below measurable amounts and BTEX below NMWQCC standards in perched groundwater beneath and surrounding the facility. In addition, AKA Energy’s request to discontinue groundwater abatement and allow for unmonitored natural attenuation is denied”.

3.0 SITE GEOLOGICAL AND HYDROGEOLOGICAL SETTING

The geologic setting, known aquifers, and regional groundwater use were introduced in the *Empire Abo Gas Plant, Eddy County, New Mexico, Groundwater Study, Volume 1* (Amoco Production Company, 1992). They were further documented in the *2013 Annual Groundwater Monitoring Report* (Larson & Associates, 2014) and are described below.

The Site surface elevation is approximately 3,550 feet above mean sea level (AMSL) and generally slopes to the southeast. The Pecos River is the nearest surface-water body and is 3.4 miles east-northeast of the Site. An unnamed dry intermittent wash is located 1,300 feet south of the Site and flows to Scoggins Draw. The nearby dry washes are losing streams and based on surface elevation and depth to groundwater, there is no groundwater-to-surface water interactions anticipated from the Site.

Based on reports by Larson & Associates (2014),

“The lowest encountered formation at the Facility is the Permian-age Yates formation of the Artesia Group. The Yates formation is named for the Yates oilfield in Pecos County, Texas, and has wide aerial extent in both surface exposures and subsurface wells samples. The Yates formation is approximately 250 to 350 feet thick and is documented as siltstone north of Roswell, New Mexico, carbonate and evaporites west and northwest of Carlsbad, and as gypsum north of Lake McMillan to near Roswell (the vicinity of the Facility). At the Facility it appears as red mudstone/shale/clay reported at the base of monitor well borings is the top of the Yates formation.

Above the Yates formation is the Tansill formation of the Artesia Group. The type section of the Tansill formation is found along US Highway 285 about 2 miles north of Carlsbad and is reported to be predominantly dolomite. The reef shelf margin is about 300 – 325 feet thick (Kelley, 1971), however, this facies gives way to evaporite facies about 10 miles north of the type section. In the vicinity of the Facility the Tansill Formation is part of an irregularly shaped north-trending belt that is generally less than a mile wide and comprised of anhydrite and salt about 100 feet thick. At the Facility the anhydrite, gypsum and salts of the Tansill formation appear to be the bulk of the strata encountered in monitor wells and borings, and is the aquifer of concern.”

Additionally, based on the results presented in *Empire Abo Gas Plant, Eddy County, New Mexico, Groundwater Study, Volume 2* (Amoco Production Company, 1993), the “subsurface consists of highly weather, multi-colored clay, sand and rock combinations...There is little stratigraphic continuity between wells throughout the entire plant area and therefore no definite correlations can be made”. Additionally, the report states that “several shallow perched aquicludes are found throughout the plant at various depths. No continuous units were found. Monitor wells were drilled to depths up to 200 feet and no major or minor aquifers were encountered...Of the 26 wells drilled, 23 encountered groundwater at various depths, all of which are perched aquicludes.”

4.0 2024 ANNUAL GROUNDWATER SAMPLING

Site groundwater monitoring wells were gauged and sampled by Ensolum personnel in the fall of 2024. Monitoring well locations are shown on Figure 3. Depth-to-groundwater and depth-to-PSH were measured in all viable on-Site monitoring wells using an oil/water interface probe on September 30, 2024. The interface probe is decontaminated with Alconox® soap and rinsed with distilled water prior to each measurement. Of note, 13 monitoring wells, MW-13, MW-14, MW-16, EB-01, EB-03, EB-04, EB-05, EB07, EB-08, P-01, P-03, P-04, and P-05, could not be located during the 2024 effort, as noted in Table 1. All other wells were located and gauged. Measurements and calculated groundwater elevations (AMSL) for the 2024 and historical sampling events are presented in Table 1. Depth to PSH was also recorded when present and a correction factor of 0.7 was applied to the calculated groundwater elevation to account for the depression of the water column caused by the presence of overlying PSH.

Inferred groundwater flow direction has historically been interpreted based on the assumption that groundwater at the Site is interconnected, resulting in a radial pattern of flow from the center of the Site and moving in all directions, caused by mounding of groundwater. To be consistent with previously submitted reports, a groundwater potentiometric surface map, including the inferred groundwater flow directions for the 2024 event, is depicted on Figure 4 using similar assumptions as previous reports; however, the *2021 Empire Abo Gas Plant (AP-112) Groundwater Monitoring and Remediation Report* (Larson & Associates, 2022) states that the “groundwater mounding is due in part to water perched on shallow discontinuous clay and silty-clay units beneath the central and eastern areas of the Facility”. As such, there may be several hydrogeologically disconnected groundwater bearings zones beneath the Site, leading to complex groundwater flow and movement in the subsurface.

4.1 GROUNDWATER SAMPLING

Based on prior NMOCD approvals, wells MW-02, MW-03, MW-08, MW-12, MW-15, MW-17, MW-22, MW-23, MW-24, EB-02, P-02, and P-05 were purged and sampled for laboratory analysis on October 1, 2024. Wells MW-20 and MW-24 did not contain sufficient volumes of groundwater and were not sampled during this event. Additionally, wells EB-07 and P-05 could not be located and were also not sampled. Purging and sampling was conducted in wells that did not contain measurable volumes of PSH using low-flow methods and a bladder pump set within the middle of the well screen. Ensolum monitored groundwater quality parameters during purging and allowed for groundwater equilibration prior to sample collection. Water quality parameters included temperature, pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and electrical conductivity (EC). Groundwater sampling forms are attached as Appendix A. Purge water was collected off-Site disposal.

The October 2024 samples were submitted to Eurofins Environment Testing (Eurofins) located in Midland, Texas for the following analyses:

- BTEX by United States Environmental Protection Agency (EPA) Method 8260D;
- Anion chloride, fluoride, and sulfate by EPA Method 300.0;
- Inorganics and General Chemistry Parameters:
 - Dissolved metals sodium, potassium, silicon oxide, calcium, and magnesium by EPA Method 200.7;
 - Alkalinity by Standard Method (SM) 2320B;
 - Specific conductance by SM 2510B;
 - TDS by SM 2540C; and
 - pH and temperature by SM 4500 H+ B.

4.2 PHASE SEPARATED HYDROCARBONS RESULTS AND FINDINGS

Thirteen Site wells continued to contain measurable volumes of PSH during the 2024 sampling event and included MW-02-09, MW-02-12, MW-02-13, MW-02-14, MW-02-15, MW-02-16, MW-03-02, MW-03-03, MW-06, MW-09, MW-10, MW-21, and AS-1. During the 2024 sampling, PSH ranged in thickness from 0.01 feet in well MW-02-13 to 5.26 feet in well MW-02-12. Based on the remediation efforts conducted at the Site, noticeable reductions of PSH were noted between 2018 and 2024.

Based on the 2024 sampling and gauging, as well as historical gauging results, PSH has been reduced to below detection in the following 18 wells:

- MW-02-06, MW-02-10, MW-02-11, MW-03, MW-03-01, MW-03-04, MW-04, MW-11, MW-13, MW-19, MW-20, MW-23, EB-02, EB-03, EB-04, EB-05, EB-06, and P-01.

Additionally, PSH thickness has decreased over time in the following five wells:

- MW-02-09, MW-02-13, MW-06, MW-10, and AS-1.

However, since remediation efforts ceased in 2022, PSH has rebounded and increased in thickness in the following eight wells:

- MW-02-12, MW-02-14, MW-02-15, MW-02-16, MW-03-02, MW-03-03, MW-09, and MW-21.

Additionally, although they could not be located during the 2024 sampling event, wells MW-14 and EB-08 contained measurable volumes of PSH during the January 2022 sampling event. A summary of PSH thickness in select wells is summarized in Table 2 and on Figure 5. Additionally, graphs included in Appendix B depict PSH thickness over time.

4.3 BTEX RESULTS AND FINDINGS

Based on the 2024 sampling results, wells MW-03 and MW-22 contained benzene concentrations of 0.511 mg/L and 0.826 mg/L, respectively, exceeding the applicable NMWQCC standard of 0.010 mg/L (the standard in place at the time of work plan approval by the NMOCD). Benzene was either not detected above the laboratory reporting limits or the NMWQCC standard in the other sampled wells. Additionally, toluene, ethylbenzene, and xylenes were either not detected above the laboratory reporting limits or the applicable NMWQCC standards in any of the sampled wells during the 2024 sampling event.

BTEX analytical results are summarized in Table 3 and on Figure 6. Complete laboratory analytical reports are attached in Appendix C.

4.4 INORGANICS AND GENERAL CHEMISTRY PARAMETERS RESULTS AND FINDINGS

Of the inorganics and general chemistry parameters sampled in 2024, concentrations of chloride, sulfate, and TDS were the only constituents with exceedances of the NMWQCC standards at the Site. Chloride concentrations exceeding the NMWQCC standard have been consistently present in wells MW-08, MW-15, and MW-18 based on historical results. Sulfate and TDS concentrations have also been consistently present above the NMWQCC standards in all wells at the Site. With the exception of well MW-02, inorganics and general chemistry parameters have been stable over time and the 2024 sampling results are consistent with past results. Well MW-02 had a significant increase of magnesium, sulfate, and TDS between sampling events conducted in April and December of 2019 and have stayed elevated above historical results through 2024.

Metals and general chemistry analytical results are summarized in Table 4, with chloride, sulfate and TDS concentrations presented on Figure 7. Complete laboratory analytical reports are attached in Appendix C.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information presented in this report, the following conclusions and recommendations are presented for the Site:

- Inferred groundwater flow direction has historically been interpreted based on the assumption that groundwater at the Site is interconnected, resulting in a radial pattern of flow from the center of the Site and moving in all directions caused by mounding of groundwater; however, based on previous interpretations of the Site's subsurface lithology and hydrogeology, groundwater at the Site is likely present in several hydrogeologically disconnected groundwater bearings zones. To better assess groundwater flow direction and potential contaminant migration, AKA plans to reassess the subsurface lithology to better evaluate potential remedial options.
- The consistent concentrations of sulfate and TDS across all wells at the Site (including unimpacted and upgradient/background wells) indicate the presence of these constituents are likely due to naturally occurring concentrations from the dissolution of the gypsum bedrock formation at the Site. Although there has been an increase of sulfate and TDS in MW-02, this could be due to additional groundwater infiltration through the formation in this area. Well MW-02 has not contained exceedances of BTEX constituents, and no other constituents have increased within this well, indicating this is unlikely to be related to a new or different release at the Site. As such, we are requesting these constituents are no longer sampled for laboratory analysis during future monitoring events.
- Calcium, magnesium, potassium, sodium, and alkalinity concentrations have been consistent over time. Additionally, the NMWQCC does not have cleanup standards for these constituents. AKA and Ensolum do not believe the continuation of sampling for these parameters will offer significant benefits to the project or Site and we are requesting these constituents are no longer sampled for laboratory analysis during future monitoring events.
- Toluene, ethylbenzene, and xylenes have not been detected over the NMWQCC standards in any wells since at least 2013. As such, we are requesting these constituents are no longer sampled for laboratory analysis during future monitoring events.
- Based on present and historical concentrations of benzene and chloride, AKA will continue to monitor the 15 wells at the Site for these two constituents for 2025. All viable Site wells will also continue to be gauged for the presence of PSH in 2025. Gauging and sampling will be performed on a semi-annual basis.
- Alternative remediation techniques will be evaluated in 2025 to address residual concentrations of benzene and the presence of PSH.

6.0 REFERENCES

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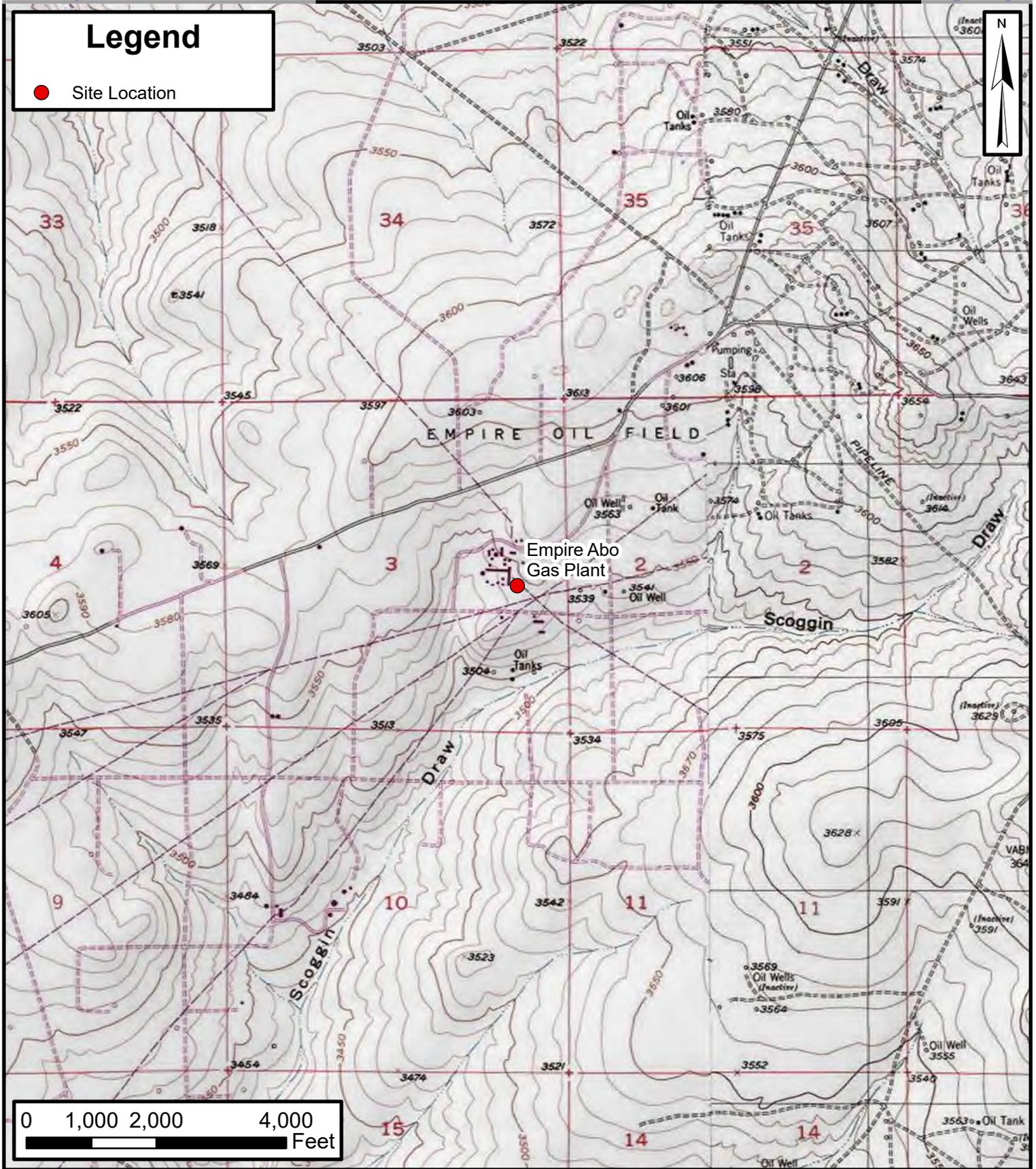
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FIGURES





Default Folder: C:\Users\Greg Palese\OneDrive - ENSOLUM, LLC\Desktop\Empireum GIS\1 - Durango\Southern Ute DOE\Empire Abo



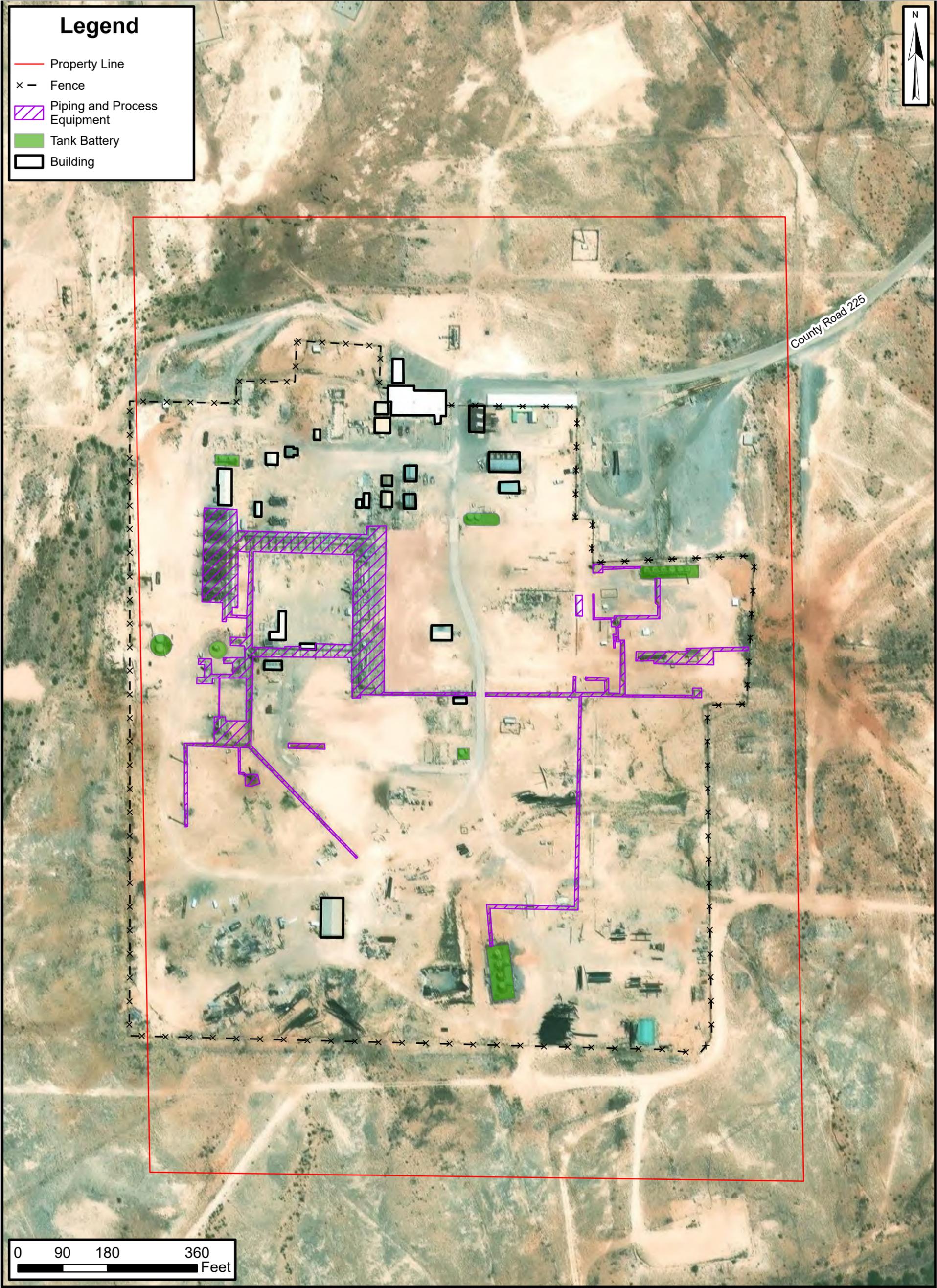
Site Location Map

Empire Abo Gas Plant
AKA Energy Group, LLC

32.77595, -104.26035
Eddy County, New Mexico

FIGURE

1

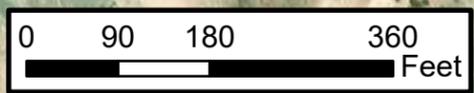


Legend

- Property Line
- × - Fence
- Piping and Process Equipment
- Tank Battery
- Building



County Road 225



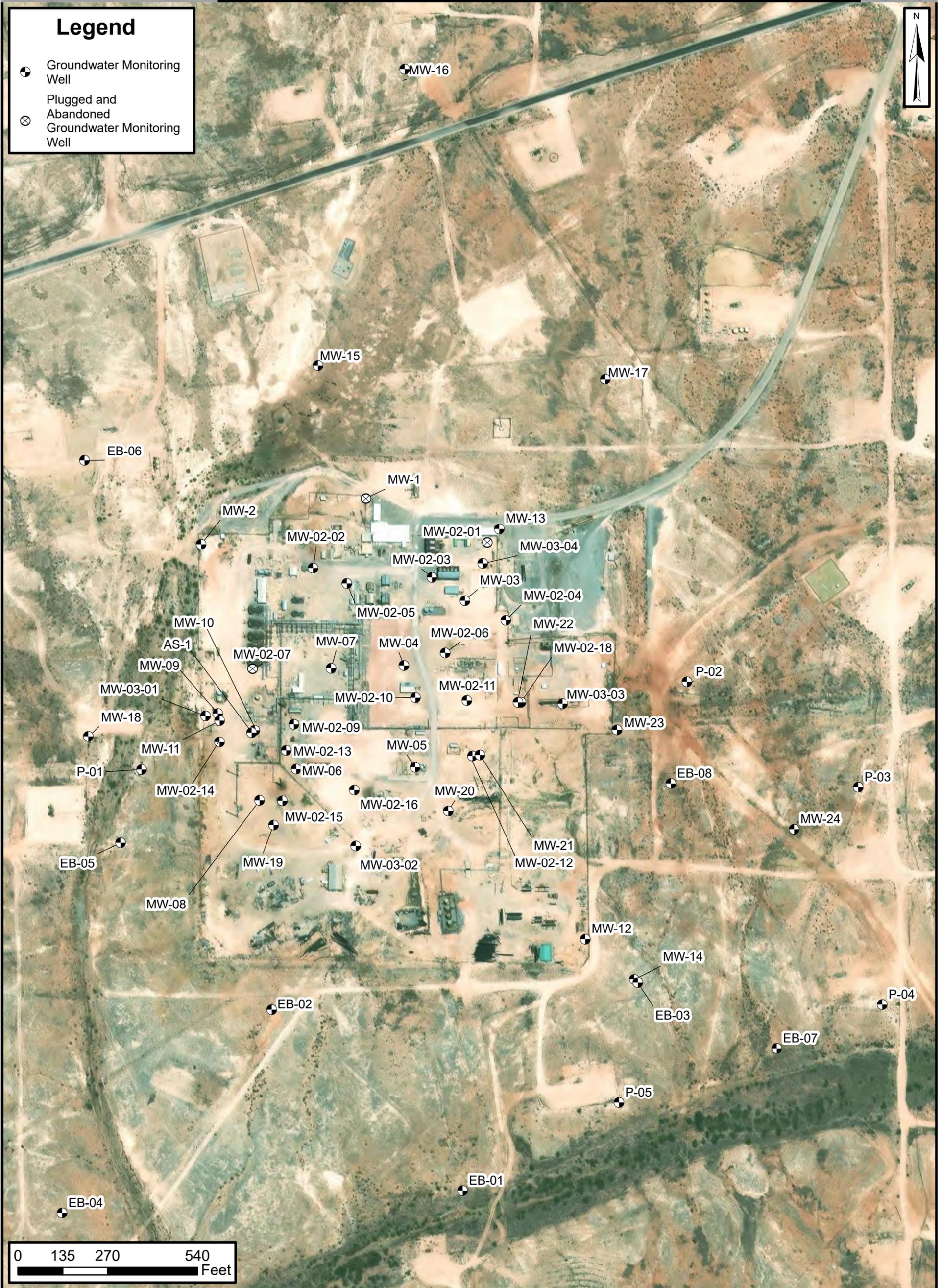
Site Map

Empire Abo Gas Plant
AKA Energy Group, LLC

32.77595, -104.26035
Eddy County, New Mexico

FIGURE

2



0 135 270 540
Feet

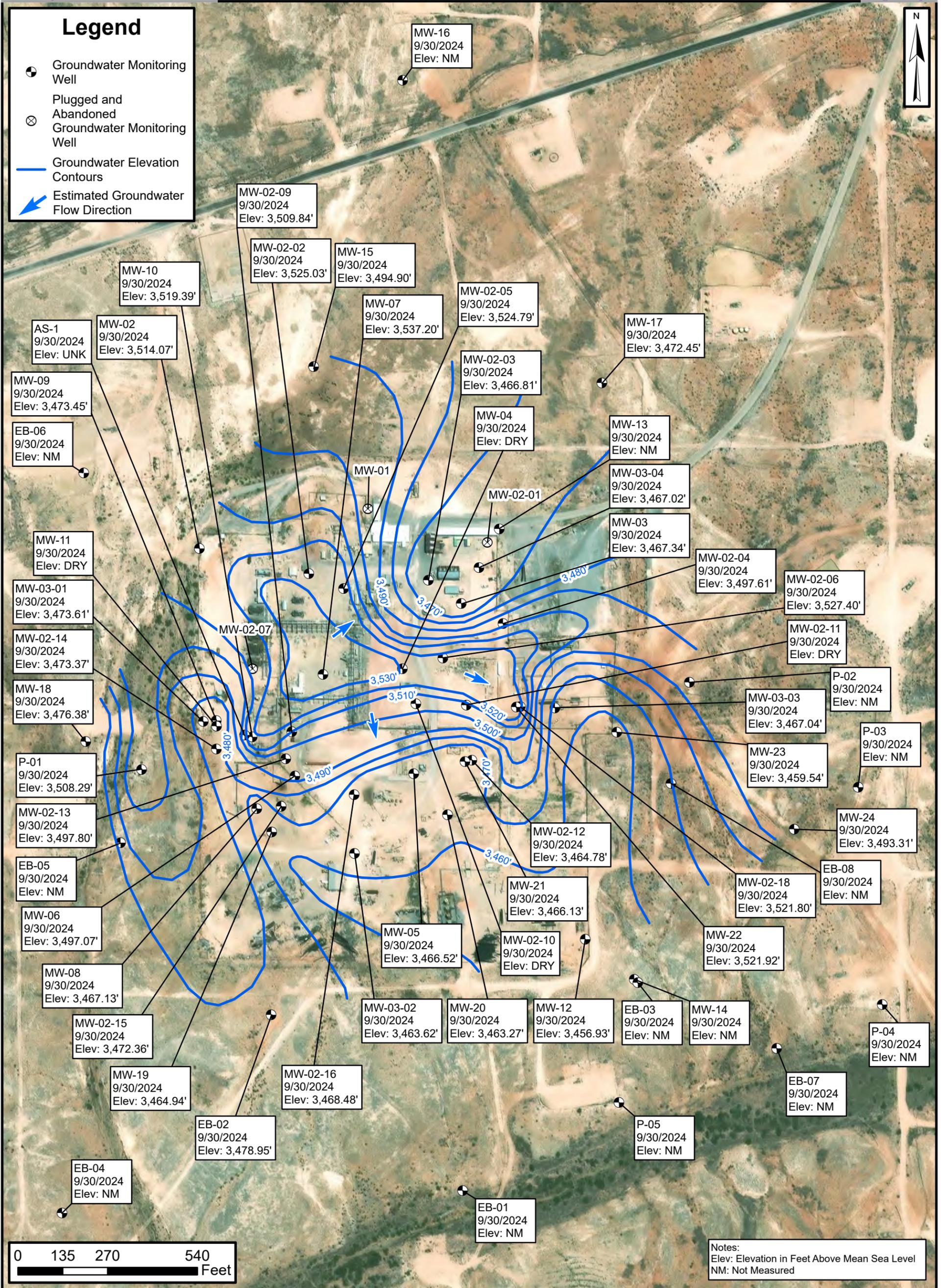


Well Location Map

Empire Abo Gas Plant
AKA Energy Group, LLC

32.77595, -104.26035
Eddy County, New Mexico

FIGURE
3

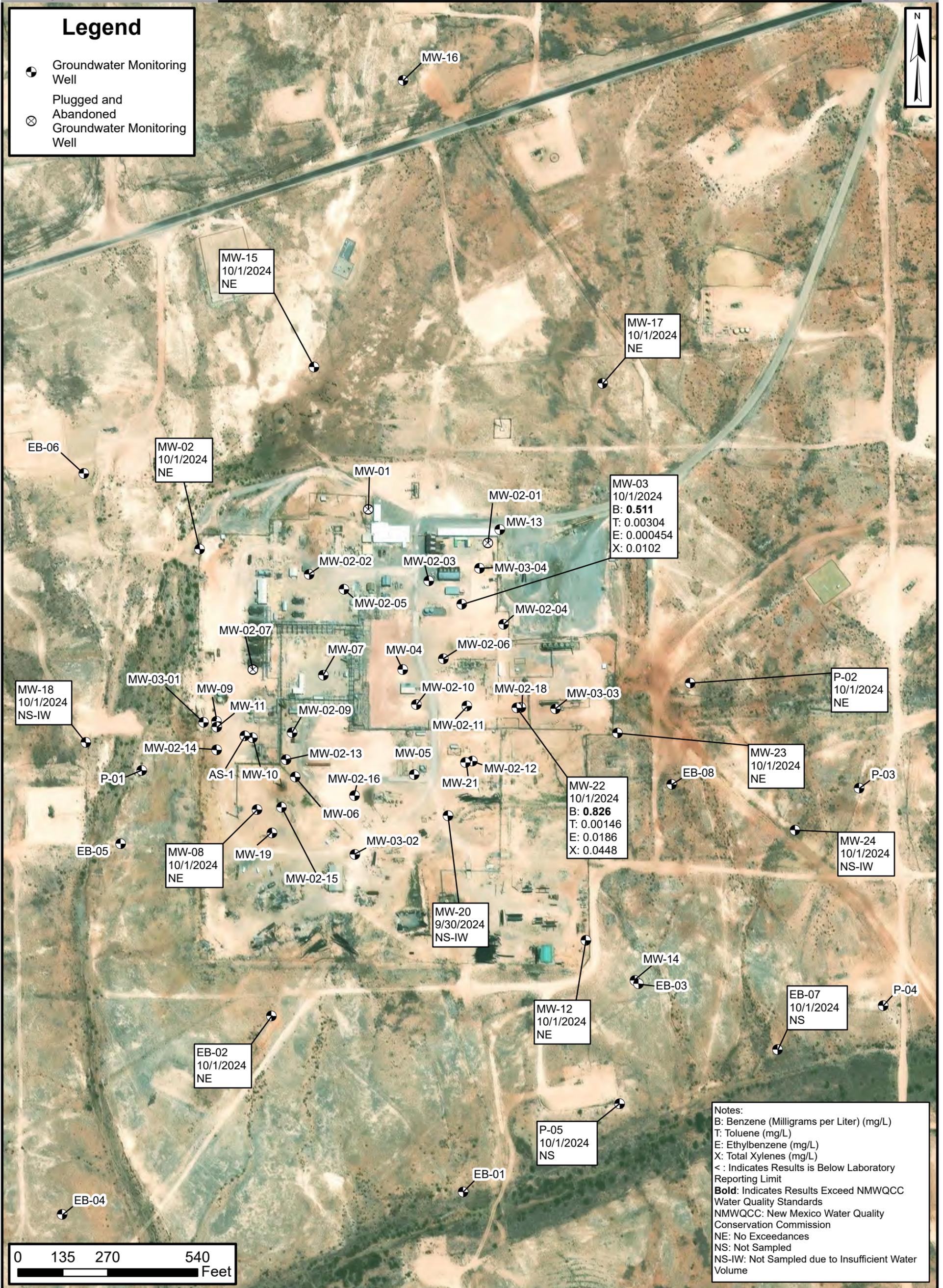


Groundwater Potentiometric Surface Map September 2024

Empire Abo Gas Plant
 AKA Energy Group, LLC

32.77595, -104.26035
 Eddy County, New Mexico

FIGURE
4

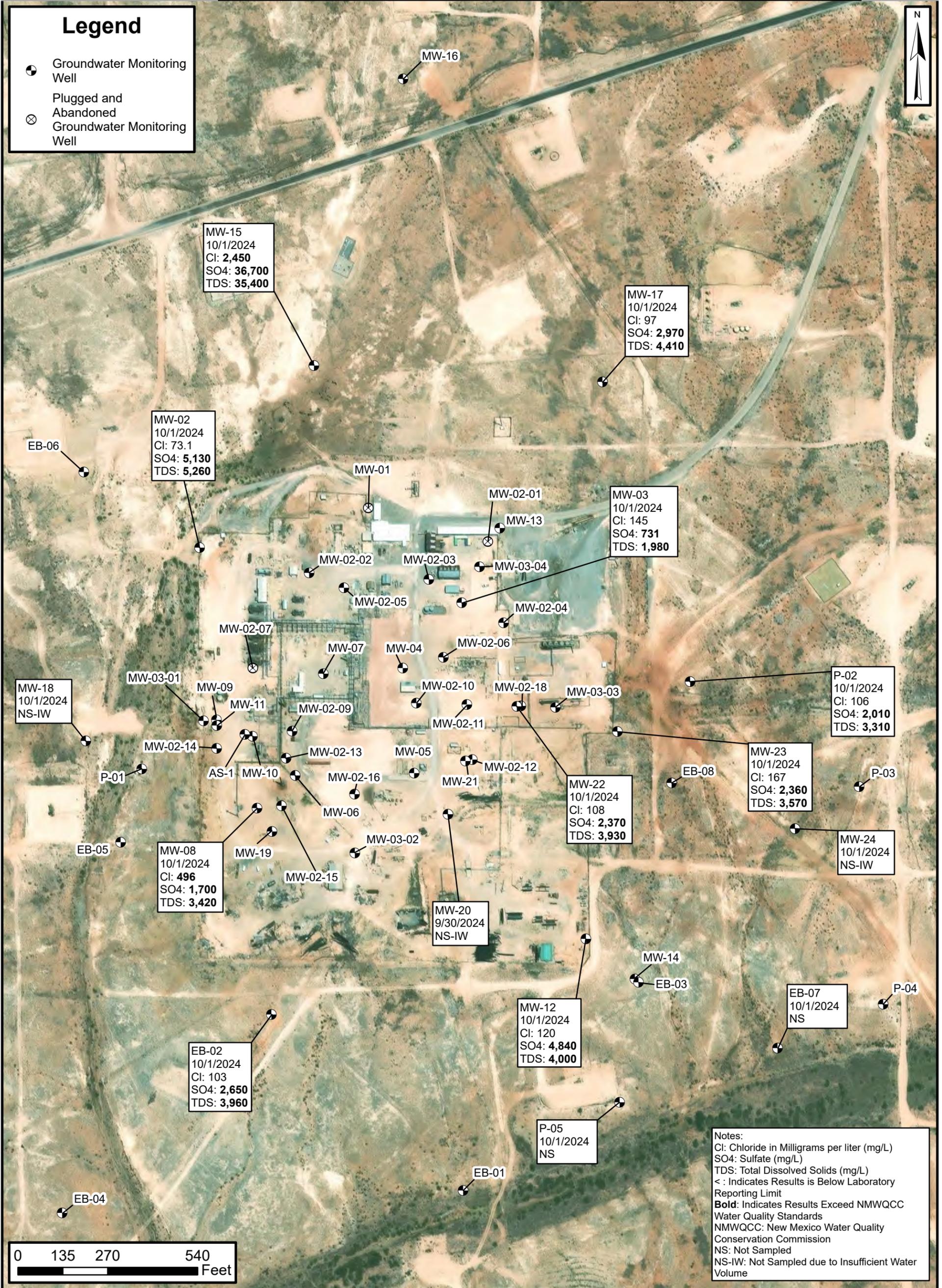


BTEX Concentrations in Groundwater October 2024

Empire Abo Gas Plant
AKA Energy Group, LLC

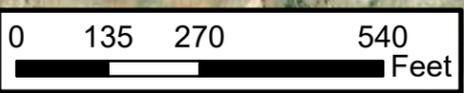
32.77595, -104.26035
Eddy County, New Mexico

FIGURE
6



Legend

- Groundwater Monitoring Well
- ⊗ Plugged and Abandoned Groundwater Monitoring Well



Notes:
 Cl: Chloride in Milligrams per liter (mg/L)
 SO4: Sulfate (mg/L)
 TDS: Total Dissolved Solids (mg/L)
 < : Indicates Results is Below Laboratory Reporting Limit
Bold: Indicates Results Exceed NMWQCC Water Quality Standards
 NMWQCC: New Mexico Water Quality Conservation Commission
 NS: Not Sampled
 NS-IW: Not Sampled due to Insufficient Water Volume

Inorganic Concentrations in Groundwater October 2024

Empire Abo Gas Plant
 AKA Energy Group, LLC

32.77595, -104.26035
 Eddy County, New Mexico

FIGURE 7



TABLES



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | |
| MW-1 | -- | -- | -- | WELL PLUGGED | | | | |
| MW-2 | 3,548.19 | 37.88 | 5/20/2013 | 34.00 | -- | -- | 3,514.19 | |
| | | | 10/15/2013 | 34.05 | -- | -- | 3,514.14 | |
| | | | 5/14/2014 | 34.00 | -- | -- | 3,514.19 | |
| | | | 10/14/2014 | 34.05 | -- | -- | 3,514.14 | |
| | | | 4/21/2015 | 34.05 | -- | -- | 3,514.14 | |
| | | | 12/8/2015 | 34.10 | -- | -- | 3,514.09 | |
| | | | 4/11/2016 | 34.06 | -- | -- | 3,514.13 | |
| | | | 12/12/2016 | 34.06 | -- | -- | 3,514.13 | |
| | | | 4/17/2017 | 34.06 | -- | -- | 3,514.13 | |
| | | | 10/25/2017 | 34.03 | -- | -- | 3,514.16 | |
| | | | 12/8/2017 | 34.13 | -- | -- | 3,514.06 | |
| | | | 3/19/2018 | 34.13 | -- | -- | 3,514.06 | |
| | | | 4/29/2019 | 34.08 | -- | -- | 3,514.11 | |
| | | | 12/9/2019 | 34.08 | -- | -- | 3,514.11 | |
| | | | 4/7/2020 | DRY | | | | |
| | | | 9/22/2020 | 34.11 | -- | -- | 3,514.08 | |
| | | | 4/27/2021 | 34.10 | -- | -- | 3,514.09 | |
| | | | 1/4/2022 | 34.05 | -- | -- | 3,514.14 | |
| 9/30/2024 | 34.12 | -- | -- | 3,514.07 | | | | |
| MW-02-01 | -- | -- | -- | WELL PLUGGED | | | | |
| MW-02-02 | 3,552.26 | 48.65 | 5/20/2013 | 26.91 | -- | -- | 3,525.35 | |
| | | | 10/15/2013 | 27.00 | -- | -- | 3,525.26 | |
| | | | 5/14/2014 | 27.22 | -- | -- | 3,525.04 | |
| | | | 10/14/2014 | 27.20 | -- | -- | 3,525.06 | |
| | | | 4/21/2015 | 26.96 | -- | -- | 3,525.30 | |
| | | | 12/8/2015 | 27.20 | -- | -- | 3,525.06 | |
| | | | 4/11/2016 | 27.18 | -- | -- | 3,525.08 | |
| | | | 12/12/2016 | 27.06 | -- | -- | 3,525.20 | |
| | | | 4/17/2017 | 26.99 | -- | -- | 3,525.27 | |
| | | | 10/25/2017 | 27.49 | -- | -- | 3,524.77 | |
| | | | 12/8/2017 | 27.40 | -- | -- | 3,524.86 | |
| | | | 3/19/2018 | 27.21 | -- | -- | 3,525.05 | |
| | | | 12/9/2019 | 27.13 | -- | -- | 3,525.13 | |
| | | | 4/7/2020 | 27.25 | -- | -- | 3,525.01 | |
| | | | 9/22/2020 | 27.36 | -- | -- | 3,524.90 | |
| | | | 4/27/2021 | 27.03 | -- | -- | 3,525.23 | |
| | | | 1/4/2022 | 27.18 | -- | -- | 3,525.08 | |
| | | | 9/30/2024 | 27.23 | -- | -- | 3,525.03 | |
| MW-02-03 | 3,556.03 | 108.50 | 5/20/2013 | 77.55 | -- | -- | 3,478.48 | |
| | | | 10/15/2013 | 79.00 | -- | -- | 3,477.03 | |
| | | | 5/14/2014 | 81.11 | -- | -- | 3,474.92 | |
| | | | 10/14/2014 | 79.12 | -- | -- | 3,476.91 | |
| | | | 4/21/2015 | 79.65 | -- | -- | 3,476.38 | |
| | | | 12/8/2015 | 79.95 | -- | -- | 3,476.08 | |
| | | | 4/11/2016 | 80.03 | -- | -- | 3,476.00 | |
| | | | 12/12/2016 | 89.50 | -- | -- | 3,466.53 | |
| | | | 4/17/2017 | 82.44 | -- | -- | 3,473.59 | |
| | | | 10/25/2017 | 83.15 | -- | -- | 3,472.88 | |
| | | | 12/8/2017 | 83.46 | -- | -- | 3,472.57 | |
| | | | 3/13/2018 | 84.51 | -- | -- | 3,471.52 | |
| | | | 3/19/2018 | 84.23 | -- | -- | 3,471.80 | |
| | | | 12/4/2018 | 85.02 | -- | -- | 3,471.01 | |
| | | | 4/24/2019 | 86.02 | -- | -- | 3,470.01 | |
| | | | 12/9/2019 | 83.42 | -- | -- | 3,472.61 | |
| | | | 4/6/2020 | 84.12 | -- | -- | 3,471.91 | |
| | | | 9/22/2020 | 85.56 | -- | -- | 3,470.47 | |
| 4/27/2021 | 86.47 | -- | -- | 3,469.56 | | | | |
| 1/4/2022 | 85.05 | -- | -- | 3,470.98 | | | | |
| 9/30/2024 | 89.22 | -- | -- | 3,466.81 | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-02-04 | 3,553.79 | 61.60 | 5/20/2013 | 51.45 | -- | -- | 3,502.34 |
| | | | 10/15/2013 | 51.00 | -- | -- | 3,502.79 |
| | | | 5/14/2014 | 52.80 | -- | -- | 3,500.99 |
| | | | 10/14/2014 | 48.58 | -- | -- | 3,505.21 |
| | | | 4/21/2015 | 50.70 | -- | -- | 3,503.09 |
| | | | 12/8/2015 | 52.30 | -- | -- | 3,501.49 |
| | | | 4/11/2016 | 52.58 | -- | -- | 3,501.21 |
| | | | 12/12/2016 | 53.00 | -- | -- | 3,500.79 |
| | | | 4/17/2017 | 54.30 | -- | -- | 3,499.49 |
| | | | 10/25/2017 | 53.18 | -- | -- | 3,500.61 |
| | | | 12/8/2017 | 53.80 | -- | -- | 3,499.99 |
| | | | 3/13/2018 | 54.82 | -- | -- | 3,498.97 |
| | | | 3/19/2018 | 54.90 | -- | -- | 3,498.89 |
| | | | 12/4/2018 | 53.36 | -- | -- | 3,500.43 |
| | | | 4/24/2019 | 54.52 | -- | -- | 3,499.27 |
| | | | 12/9/2019 | 53.20 | -- | -- | 3,500.59 |
| | | | 4/6/2020 | 52.93 | -- | -- | 3,500.86 |
| | | | 9/22/2020 | 54.41 | -- | -- | 3,499.38 |
| | | | 4/27/2021 | 54.96 | -- | -- | 3,498.83 |
| | | | 1/4/2022 | 54.07 | -- | -- | 3,499.72 |
| 9/30/2024 | 56.18 | -- | -- | 3,497.61 | | | |
| MW-02-05 | 3,552.69 | 52.31 | 5/20/2013 | 27.45 | -- | -- | 3,525.24 |
| | | | 10/15/2013 | 27.60 | -- | -- | 3,525.09 |
| | | | 5/14/2014 | 27.90 | -- | -- | 3,524.79 |
| | | | 10/14/2014 | 27.90 | -- | -- | 3,524.79 |
| | | | 4/21/2015 | 27.62 | -- | -- | 3,525.07 |
| | | | 12/8/2015 | 27.80 | -- | -- | 3,524.89 |
| | | | 4/11/2016 | 27.82 | -- | -- | 3,524.87 |
| | | | 12/12/2016 | 28.71 | -- | -- | 3,523.98 |
| | | | 4/17/2017 | 27.00 | -- | -- | 3,525.69 |
| | | | 10/25/2017 | 28.11 | -- | -- | 3,524.58 |
| | | | 12/8/2017 | 28.09 | -- | -- | 3,524.60 |
| | | | 3/19/2018 | 27.80 | -- | -- | 3,524.89 |
| | | | 12/5/2018 | 28.03 | -- | -- | 3,524.66 |
| | | | 4/24/2019 | 27.84 | -- | -- | 3,524.85 |
| | | | 12/9/2019 | 27.80 | -- | -- | 3,524.89 |
| | | | 4/7/2020 | 27.92 | -- | -- | 3,524.77 |
| | | | 9/22/2020 | 28.03 | -- | -- | 3,524.66 |
| | | | 4/27/2021 | 27.63 | -- | -- | 3,525.06 |
| | | | 1/4/2022 | 27.84 | -- | -- | 3,524.85 |
| | | | 9/30/2024 | 27.90 | -- | -- | 3,524.79 |
| MW-02-06 | 3,550.82 | 23.90 | 5/20/2013 | 19.30 | 19.25 | 0.05 | 3,531.56 |
| | | | 10/15/2013 | 11.00 | 10.55 | 0.45 | 3,540.14 |
| | | | 5/14/2014 | 20.85 | 20.50 | 0.35 | 3,530.22 |
| | | | 10/14/2014 | 12.20 | 11.75 | 0.45 | 3,538.94 |
| | | | 4/21/2015 | 18.60 | 18.30 | 0.30 | 3,532.43 |
| | | | 12/8/2015 | 16.11 | Trace | Trace | 3,534.71 |
| | | | 4/11/2016 | 15.79 | Trace | Trace | 3,535.03 |
| | | | 12/12/2016 | 17.66 | 17.65 | 0.01 | 3,533.17 |
| | | | 4/17/2017 | 21.63 | 21.62 | 0.01 | 3,529.20 |
| | | | 10/25/2017 | 20.16 | 19.68 | 0.48 | 3,531.00 |
| | | | 12/8/2017 | 20.15 | -- | -- | 3,530.67 |
| | | | 3/13/2018 | 21.35 | 20.94 | 0.41 | 3,529.76 |
| | | | 3/19/2018 | 20.91 | -- | -- | 3,529.91 |
| | | | 12/4/2018 | 20.62 | 20.37 | 0.25 | 3,530.38 |
| | | | 4/24/2019 | 21.94 | 21.33 | 0.61 | 3,529.31 |
| | | | 8/30/2019 | 22.18 | 21.10 | 1.08 | 3,529.40 |
| | | | 12/9/2020 | 19.97 | -- | -- | 3,530.85 |
| | | | 4/6/2020 | 21.43 | -- | -- | 3,529.39 |
| | | | 9/22/2020 | 22.05 | -- | -- | 3,528.77 |
| | | | 4/27/2021 | 22.49 | -- | -- | 3,528.33 |
| 1/4/2022 | 22.66 | -- | -- | 3,528.16 | | | |
| 9/30/2024 | 23.42 | -- | -- | 3,527.40 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | | |
| MW-02-07 | 3,547.00 | 63.80 | 5/20/2013 | 58.00 | -- | -- | 3,489.00 | | |
| | | | 10/15/2013 | 60.40 | -- | -- | 3,486.60 | | |
| | | | 5/14/2014 | 61.70 | -- | -- | 3,485.30 | | |
| | | | 10/14/2014 | 59.05 | -- | -- | 3,487.95 | | |
| | | | 4/21/2015 | 62.00 | -- | -- | 3,485.00 | | |
| | | | 12/8/2015 | DRY | | | | | |
| | | | 4/11/2016 | DRY | | | | | |
| | | | 12/12/2016 | 61.95 | -- | -- | 3,485.05 | | |
| | | | 4/17/2017 | DRY | | | | | |
| | | | 10/25/2017 | DRY | | | | | |
| | | | 12/8/2017 | DRY | | | | | |
| | | | 3/19/2018 | DRY | | | | | |
| | | | 12/4/2019 | DRY | | | | | |
| | | | 4/24/2019 | DRY | | | | | |
| | | | 12/7/2019 | WELL PLUGGED | | | | | |
| MW-02-09 | 3,546.52 | 43.97 | 5/20/2013 | 38.45 | 34.00 | 4.45 | 3,511.19 | | |
| | | | 10/15/2013 | 37.70 | 34.55 | 3.15 | 3,511.03 | | |
| | | | 5/14/2014 | 39.15 | 34.60 | 4.55 | 3,510.56 | | |
| | | | 10/14/2014 | 38.90 | 34.82 | 4.08 | 3,510.48 | | |
| | | | 4/21/2015 | 38.80 | 34.92 | 3.88 | 3,510.44 | | |
| | | | 12/8/2015 | 37.90 | 35.70 | 2.20 | 3,510.16 | | |
| | | | 4/11/2016 | 36.81 | 35.35 | 1.46 | 3,510.73 | | |
| | | | 12/13/2016 | 38.65 | 35.70 | 2.95 | 3,509.94 | | |
| | | | 4/17/2017 | 38.60 | 35.80 | 2.80 | 3,509.88 | | |
| | | | 10/25/2017 | 38.79 | 35.81 | 2.98 | 3,509.82 | | |
| | | | 12/8/2017 | 36.59 | 36.30 | 0.29 | 3,510.13 | | |
| | | | 3/13/2018 | 39.09 | 36.32 | 2.77 | 3,509.37 | | |
| | | | 3/19/2018 | 37.15 | 36.29 | 0.86 | 3,509.97 | | |
| | | | 12/4/2018 | 37.91 | 37.61 | 0.30 | 3,508.82 | | |
| | | | 4/24/2019 | 36.53 | 36.30 | 0.23 | 3,510.15 | | |
| | | | 8/30/2019 | 36.58 | 36.33 | 0.25 | 3,510.12 | | |
| | | | 12/9/2019 | 36.60 | 36.35 | 0.25 | 3,510.10 | | |
| | | | 4/6/2020 | 36.45 | 36.34 | 0.11 | 3,510.15 | | |
| | | | 9/22/2020 | 36.60 | 36.35 | 0.25 | 3,510.10 | | |
| | | | 1/4/2022 | 36.28 | -- | -- | 3,510.24 | | |
| 9/30/2024 | 36.68 | 36.30 | 0.38 | 3,509.84 | | | | | |
| MW-02-10 | 3,548.40 | 72.90 | 5/20/2013 | ** | 63.96 | >10 | -- | | |
| | | | 10/15/2013 | 72.40 | 66.10 | 6.30 | 3,480.41 | | |
| | | | 5/14/2014 | >72.9 | 68.35 | >4.55 | -- | | |
| | | | 10/14/2014 | >72.9 | 64.72 | >8.15 | -- | | |
| | | | 4/21/2015 | >72.9 | 67.25 | >5.65 | -- | | |
| | | | 12/8/2015 | >72.9 | 67.05 | >5.85 | -- | | |
| | | | 4/11/2016 | >72.9 | 67.47 | >5.43 | -- | | |
| | | | 12/12/2016 | >72.9 | 68.90 | >4.00 | -- | | |
| | | | 4/17/2017 | >72.9 | 69.98 | >2.92 | -- | | |
| | | | 10/25/2017 | >72.9 | 71.35 | >1.55 | -- | | |
| | | | 12/8/2017 | >72.9 | 70.95 | >1.95 | -- | | |
| | | | 3/13/2018 | 72.55 | 72.49 | 0.06 | 3,475.89 | | |
| | | | 3/19/2018 | 72.59 | 72.52 | 0.07 | 3,475.86 | | |
| | | | 12/4/2018 | 74.15 | 72.85 | 1.30 | 3,475.16 | | |
| | | | 4/24/2019 | DRY | | | | | |
| | | | 12/9/2019 | DRY | | | | | |
| | | | 4/6/2020 | 72.77 | 72.31 | 0.46 | 3,475.95 | | |
| | | | 9/22/2020 | 74.31 | 74.29 | 0.02 | 3,474.10 | | |
| | | | 1/4/2022 | 74.57 | -- | -- | 3,473.83 | | |
| | | | 9/30/2024 | DRY | | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | |
| MW-02-11 | 3,546.79 | 23.42 | 5/20/2013 | 21.90 | 21.78 | 0.12 | 3,524.97 | |
| | | | 10/15/2013 | 18.30 | 18.25 | 0.05 | 3,528.53 | |
| | | | 5/14/2014 | 22.50 | 22.45 | 0.05 | 3,524.33 | |
| | | | 10/14/2014 | 17.35 | 17.29 | 0.06 | 3,529.48 | |
| | | | 4/21/2015 | 19.54 | -- | -- | 3,527.25 | |
| | | | 12/8/2015 | 18.80 | -- | -- | 3,527.99 | |
| | | | 4/11/2016 | 20.59 | -- | -- | 3,526.20 | |
| | | | 12/12/2016 | 21.00 | -- | -- | 3,525.79 | |
| | | | 4/17/2017 | 21.45 | -- | -- | 3,525.34 | |
| | | | 10/25/2017 | 21.38 | -- | -- | 3,525.41 | |
| | | | 12/8/2017 | 22.10 | -- | -- | 3,524.69 | |
| | | | 3/13/2018 | 23.23 | 22.93 | 0.30 | 3,523.77 | |
| | | | 3/19/2018 | ** | 22.90 | ** | -- | |
| | | | 12/4/2018 | 22.40 | 21.77 | 0.63 | 3,524.83 | |
| | | | 4/24/2019 | ** | 23.17 | ** | -- | |
| | | | 12/9/2019 | ** | 21.96 | ** | -- | |
| | | | 4/6/2020 | | | | DRY | |
| | | | 9/22/2020 | | | | DRY | |
| | | | 4/27/2021 | | | | DRY | |
| 1/4/2022 | | | | DRY | | | | |
| 9/30/2024 | | | | DRY | | | | |
| MW-02-12 | 3,543.32 | 85.85 | 5/20/2013 | 66.84 | -- | -- | 3,476.48 | |
| | | | 10/15/2013 | 67.80 | -- | -- | 3,475.52 | |
| | | | 5/14/2014 | 70.00 | -- | -- | 3,473.32 | |
| | | | 10/14/2014 | 67.25 | -- | -- | 3,476.07 | |
| | | | 4/21/2015 | 68.10 | -- | -- | 3,475.22 | |
| | | | 12/8/2015 | 68.25 | -- | -- | 3,475.07 | |
| | | | 4/11/2016 | 68.42 | -- | -- | 3,474.90 | |
| | | | 12/12/2016 | 69.10 | -- | -- | 3,474.22 | |
| | | | 4/17/2017 | 70.66 | -- | -- | 3,472.66 | |
| | | | 10/25/2017 | 71.35 | -- | -- | 3,471.97 | |
| | | | 12/8/2017 | 71.68 | -- | -- | 3,471.64 | |
| | | | 3/13/2018 | 72.45 | -- | -- | 3,470.87 | |
| | | | 3/19/2018 | 72.54 | -- | -- | 3,470.78 | |
| | | | 12/4/2018 | 81.01 | 72.94 | 8.07 | 3,467.96 | |
| | | | 4/24/2019 | 74.43 | 74.36 | 0.07 | 3,468.94 | |
| | | | 12/9/2019 | 71.38 | 71.35 | 0.03 | 3,471.96 | |
| | | | 4/7/2020 | 72.07 | 72.00 | 0.07 | 3,471.30 | |
| | | | 9/22/2020 | 73.81 | 73.59 | 0.22 | 3,469.66 | |
| | | | 4/27/2021 | 74.64 | 74.58 | 0.06 | 3,468.72 | |
| 1/4/2022 | 79.25 | 72.93 | 6.32 | 3,468.49 | | | | |
| 9/30/2024 | 82.22 | 76.96 | 5.26 | 3,464.78 | | | | |
| MW-02-13 | 3,545.59 | 50.05 | 5/20/2013 | 47.42 | 43.80 | 3.62 | 3,500.70 | |
| | | | 10/15/2013 | 47.40 | 43.82 | 3.58 | 3,500.70 | |
| | | | 5/14/2014 | 47.38 | 45.91 | 1.47 | 3,499.24 | |
| | | | 10/14/2014 | 47.25 | 41.40 | 5.85 | 3,502.44 | |
| | | | 4/21/2015 | 46.80 | 45.00 | 1.80 | 3,500.05 | |
| | | | 12/8/2015 | 46.90 | 44.75 | 2.15 | 3,500.20 | |
| | | | 4/11/2016 | 47.07 | 44.72 | 2.35 | 3,500.17 | |
| | | | 12/13/2016 | 47.02 | 45.30 | 1.72 | 3,499.77 | |
| | | | 4/17/2017 | 47.05 | 45.20 | 1.85 | 3,499.84 | |
| | | | 10/25/2017 | 47.13 | 46.37 | 0.76 | 3,498.99 | |
| | | | 12/8/2017 | 47.07 | 47.00 | 0.07 | 3,498.57 | |
| | | | 3/13/2018 | 48.11 | 46.91 | 1.20 | 3,498.32 | |
| | | | 3/19/2018 | 47.35 | 46.83 | 0.52 | 3,498.60 | |
| | | | 12/4/2018 | 46.87 | 46.68 | 0.19 | 3,498.85 | |
| | | | 4/24/2019 | 47.84 | 47.28 | 0.56 | 3,498.14 | |
| | | | 8/30/2019 | 47.85 | 47.64 | 0.21 | 3,497.89 | |
| | | | 12/9/2019 | 47.68 | 47.67 | 0.01 | 3,497.92 | |
| | | | 4/7/2020 | 47.58 | 47.50 | 0.08 | 3,498.07 | |
| | | | 9/22/2020 | 47.53 | 47.45 | 0.08 | 3,498.12 | |
| | | | 4/27/2021 | 47.70 | 47.69 | 0.01 | 3,497.90 | |
| 1/4/2022 | 47.52 | 47.45 | 0.07 | 3,498.12 | | | | |
| 9/30/2024 | 47.80 | 47.79 | 0.01 | 3,497.80 | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-02-14 | 3,544.53 | 78.80 | 5/20/2013 | 60.35 | 59.47 | 0.88 | 3,484.80 |
| | | | 10/15/2013 | 60.85 | 60.15 | 0.70 | 3,484.17 |
| | | | 5/14/2014 | 62.20 | 61.60 | 0.60 | 3,482.75 |
| | | | 10/14/2014 | 61.20 | 59.30 | 1.90 | 3,484.66 |
| | | | 4/21/2015 | 62.00 | 61.25 | 0.75 | 3,483.06 |
| | | | 12/8/2015 | 61.70 | 61.35 | 0.35 | 3,483.08 |
| | | | 4/11/2016 | 61.80 | 61.38 | 0.42 | 3,483.02 |
| | | | 12/13/2016 | 61.90 | 61.31 | 0.59 | 3,483.04 |
| | | | 4/17/2017 | 61.80 | 61.30 | 0.50 | 3,483.08 |
| | | | 10/25/2017 | 64.95 | 64.47 | 0.48 | 3,479.92 |
| | | | 12/8/2017 | 64.82 | 64.79 | 0.03 | 3,479.73 |
| | | | 3/13/2018 | 65.69 | 65.55 | 0.14 | 3,478.94 |
| | | | 3/19/2018 | 65.90 | 65.82 | 0.08 | 3,478.69 |
| | | | 12/4/2018 | 66.92 | 66.67 | 0.25 | 3,477.79 |
| | | | 4/24/2019 | 67.94 | -- | -- | 3,476.59 |
| | | | 8/30/2019 | 68.00 | 67.45 | 0.55 | 3,476.92 |
| | | | 12/9/2019 | 64.58 | 64.57 | 0.01 | 3,479.96 |
| | | | 4/7/2020 | 65.34 | 65.30 | 0.04 | 3,479.22 |
| | | | 9/22/2020 | 65.23 | 65.19 | 0.04 | 3,479.33 |
| | | | 4/27/2021 | 68.53 | 68.48 | 0.05 | 3,476.04 |
| 1/4/2022 | 67.53 | -- | -- | 3,477.00 | | | |
| 9/30/2024 | 71.34 | 71.08 | 0.26 | 3,473.37 | | | |
| MW-02-15 | 3,543.29 | 75.95 | 5/20/2013 | 61.04 | -- | -- | 3,482.25 |
| | | | 10/15/2013 | 61.50 | -- | -- | 3,481.79 |
| | | | 5/14/2014 | 62.75 | -- | -- | 3,480.54 |
| | | | 10/14/2014 | 60.71 | -- | -- | 3,482.58 |
| | | | 4/21/2015 | 62.25 | -- | -- | 3,481.04 |
| | | | 12/8/2015 | 62.21 | -- | -- | 3,481.08 |
| | | | 4/11/2016 | 62.31 | -- | -- | 3,480.98 |
| | | | 12/13/2016 | 67.41 | 67.31 | 0.10 | 3,475.95 |
| | | | 4/17/2017 | 64.60 | 64.32 | 0.28 | 3,478.89 |
| | | | 10/25/2017 | 65.08 | 64.88 | 0.20 | 3,478.35 |
| | | | 12/8/2017 | 65.00 | 64.69 | 0.31 | 3,478.51 |
| | | | 3/13/2018 | 68.76 | 65.69 | 3.07 | 3,476.68 |
| | | | 3/19/2018 | 68.31 | 65.71 | 2.60 | 3,476.80 |
| | | | 12/4/2018 | 70.24 | 66.03 | 4.21 | 3,476.00 |
| | | | 4/24/2019 | 68.37 | 68.00 | 0.37 | 3,475.18 |
| | | | 8/30/2019 | 69.51 | 69.13 | 0.38 | 3,474.05 |
| | | | 12/9/2019 | 65.51 | 64.59 | 0.92 | 3,478.42 |
| | | | 4/6/2020 | 65.89 | 65.66 | 0.23 | 3,477.56 |
| | | | 9/22/2020 | 67.50 | 67.30 | 0.20 | 3,475.93 |
| | | | 4/27/2021 | 70.18 | 69.85 | 0.33 | 3,473.34 |
| 1/4/2022 | 69.66 | 68.57 | 1.09 | 3,474.39 | | | |
| 9/30/2024 | 71.85 | 70.53 | 1.32 | 3,472.36 | | | |
| MW-02-16 | 3,544.24 | 86.10 | 5/20/2013 | 67.25 | -- | -- | 3,476.99 |
| | | | 10/15/2013 | 67.90 | -- | -- | 3,476.34 |
| | | | 5/14/2014 | 70.00 | -- | -- | 3,474.24 |
| | | | 10/14/2014 | 67.58 | -- | -- | 3,476.66 |
| | | | 4/21/2015 | 68.56 | -- | -- | 3,475.68 |
| | | | 12/8/2015 | 68.50 | -- | -- | 3,475.74 |
| | | | 4/11/2016 | 68.66 | -- | -- | 3,475.58 |
| | | | 12/12/2016 | 72.89 | 72.15 | 0.74 | 3,471.87 |
| | | | 4/17/2017 | 72.13 | 70.50 | 1.63 | 3,473.25 |
| | | | 10/25/2017 | 72.65 | 70.91 | 1.74 | 3,472.81 |
| | | | 12/8/2017 | 71.75 | 71.74 | 0.01 | 3,472.50 |
| | | | 3/13/2018 | 72.34 | 72.10 | 0.24 | 3,472.07 |
| | | | 3/19/2018 | 72.50 | 72.30 | 0.20 | 3,471.88 |
| | | | 12/4/2018 | 72.42 | 72.30 | 0.12 | 3,471.90 |
| | | | 4/24/2019 | 73.48 | 73.24 | 0.24 | 3,470.93 |
| | | | 8/30/2019 | 74.00 | 73.22 | 0.78 | 3,470.79 |
| | | | 12/9/2019 | 71.02 | -- | -- | 3,473.22 |
| | | | 4/6/2020 | 71.65 | -- | -- | 3,472.59 |
| | | | 9/22/2020 | 72.89 | Trace | Trace | 3,471.35 |
| | | | 4/27/2021 | 74.09 | Trace | Trace | 3,470.15 |
| 1/4/2022 | 73.12 | Trace | Trace | 3,471.12 | | | |
| 9/30/2024 | 76.51 | 75.44 | 1.07 | 3,468.48 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-02-18 | 3,545.70 | 39.80 | 5/20/2013 | 20.65 | -- | -- | 3,525.05 |
| | | | 10/15/2013 | 17.15 | -- | -- | 3,528.55 |
| | | | 5/14/2014 | 21.25 | -- | -- | 3,524.45 |
| | | | 10/14/2014 | 15.35 | -- | -- | 3,530.35 |
| | | | 4/21/2015 | 18.35 | -- | -- | 3,527.35 |
| | | | 12/8/2015 | 17.75 | -- | -- | 3,527.95 |
| | | | 4/11/2016 | 19.63 | -- | -- | 3,526.07 |
| | | | 12/12/2016 | 19.95 | -- | -- | 3,525.75 |
| | | | 4/17/2017 | 20.32 | -- | -- | 3,525.38 |
| | | | 10/25/2017 | 20.49 | -- | -- | 3,525.21 |
| | | | 12/8/2017 | 21.24 | -- | -- | 3,524.46 |
| | | | 3/13/2018 | 21.90 | -- | -- | 3,523.80 |
| | | | 3/19/2018 | 21.95 | -- | -- | 3,523.75 |
| | | | 12/4/2018 | 20.82 | -- | -- | 3,524.88 |
| | | | 4/24/2019 | 22.34 | -- | -- | 3,523.36 |
| | | | 12/10/2019 | 21.50 | -- | -- | 3,524.20 |
| | | | 4/6/2020 | 22.48 | -- | -- | 3,523.22 |
| | | | 9/22/2020 | 23.08 | -- | -- | 3,522.62 |
| 4/27/2021 | 23.80 | -- | -- | 3,521.90 | | | |
| 1/4/2022 | 23.12 | -- | -- | 3,522.58 | | | |
| 9/30/2024 | 23.90 | -- | -- | 3,521.80 | | | |
| MW-03 | 3,555.30 | -- | 5/20/2013 | 72.62 | -- | -- | 3,482.68 |
| | | | 10/15/2013 | 75.90 | -- | -- | 3,479.40 |
| | | | 5/14/2014 | 77.32 | 77.30 | 0.02 | 3,477.99 |
| | | | 10/14/2014 | 75.12 | -- | -- | 3,480.18 |
| | | | 4/21/2015 | 76.35 | -- | -- | 3,478.95 |
| | | | 12/8/2015 | 76.28 | -- | -- | 3,479.02 |
| | | | 4/11/2016 | 76.60 | -- | -- | 3,478.70 |
| | | | 12/12/2016 | 77.40 | -- | -- | 3,477.90 |
| | | | 4/17/2017 | 79.63 | -- | -- | 3,475.67 |
| | | | 10/25/2017 | 79.45 | -- | -- | 3,475.85 |
| | | | 12/8/2017 | 80.54 | -- | -- | 3,474.76 |
| | | | 3/13/2018 | 83.06 | 82.65 | 0.41 | 3,472.53 |
| | | | 3/19/2018 | 82.90 | -- | -- | 3,472.40 |
| | | | 12/4/2018 | 82.75 | -- | -- | 3,472.55 |
| | | | 4/25/2019 | 84.13 | 84.11 | 0.02 | 3,471.18 |
| | | | 12/9/2019 | 79.14 | -- | -- | 3,476.16 |
| | | | 4/6/2020 | 81.52 | -- | -- | 3,473.78 |
| | | | 9/22/2020 | 83.64 | 83.60 | 0.04 | 3,471.69 |
| 4/28/2021 | 85.03 | 84.87 | 0.16 | 3,470.38 | | | |
| 1/4/2022 | 83.89 | 83.82 | 0.07 | 3,471.46 | | | |
| 9/30/2024 | 87.96 | -- | -- | 3,467.34 | | | |
| MW-03-01 | 3,542.56 | 73.40 | 5/20/2013 | 57.50 | -- | -- | 3,485.06 |
| | | | 10/15/2013 | 58.70 | 58.10 | 0.60 | 3,484.28 |
| | | | 5/14/2014 | 60.70 | 59.20 | 1.50 | 3,482.91 |
| | | | 10/14/2014 | 57.15 | 57.07 | 0.08 | 3,485.47 |
| | | | 4/21/2015 | 60.20 | 59.65 | 0.55 | 3,482.75 |
| | | | 12/8/2015 | 61.00 | 59.66 | 1.34 | 3,482.50 |
| | | | 4/11/2016 | 58.75 | 58.53 | 0.22 | 3,483.96 |
| | | | 12/13/2016 | 58.36 | 58.26 | 0.10 | 3,484.27 |
| | | | 4/17/2017 | 58.30 | 58.20 | 0.10 | 3,484.33 |
| | | | 10/25/2017 | 61.76 | 61.51 | 0.25 | 3,480.98 |
| | | | 12/8/2017 | 61.77 | 61.70 | 0.07 | 3,480.84 |
| | | | 3/13/2018 | 64.40 | 62.87 | 1.53 | 3,479.23 |
| | | | 3/19/2018 | 63.17 | 62.90 | 0.27 | 3,479.58 |
| | | | 12/4/2018 | 64.12 | -- | -- | 3,478.44 |
| | | | 4/24/2019 | 65.15 | -- | -- | 3,477.41 |
| | | | 12/9/2019 | 61.38 | -- | -- | 3,481.18 |
| | | | 4/6/2020 | 65.34 | 65.30 | 0.04 | 3,477.25 |
| | | | 9/22/2020 | 64.49 | -- | -- | 3,478.07 |
| 4/27/2021 | 66.19 | -- | -- | 3,476.37 | | | |
| 1/4/2022 | 65.10 | -- | -- | 3,477.46 | | | |
| 9/30/2024 | 68.95 | -- | -- | 3,473.61 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-03-02 | 3,541.08 | 105.75 | 5/20/2013 | 69.10 | 68.75 | 0.35 | 3,472.23 |
| | | | 10/15/2013 | 69.00 | 65.80 | 3.20 | 3,474.32 |
| | | | 5/14/2014 | 70.40 | 69.80 | 0.60 | 3,471.10 |
| | | | 10/14/2014 | 68.20 | 67.40 | 0.80 | 3,473.44 |
| | | | 4/21/2015 | 68.95 | 68.75 | 0.20 | 3,472.27 |
| | | | 12/8/2015 | 69.20 | 68.75 | 0.45 | 3,472.20 |
| | | | 4/11/2016 | 69.32 | 68.97 | 0.35 | 3,472.01 |
| | | | 12/12/2016 | 69.33 | 68.65 | 0.68 | 3,472.23 |
| | | | 4/17/2017 | 71.14 | 70.16 | 0.98 | 3,470.63 |
| | | | 10/25/2017 | 70.89 | 70.65 | 0.24 | 3,470.36 |
| | | | 12/8/2017 | 71.03 | -- | -- | 3,470.05 |
| | | | 3/13/2018 | 71.40 | -- | -- | 3,469.68 |
| | | | 3/19/2018 | 71.32 | -- | -- | 3,469.76 |
| | | | 12/4/2018 | 71.00 | -- | -- | 3,470.08 |
| | | | 4/24/2019 | 73.31 | -- | -- | 3,467.77 |
| | | | 12/9/2019 | 71.33 | -- | -- | 3,469.75 |
| | | | 4/6/2020 | 71.04 | -- | -- | 3,470.04 |
| | | | 9/22/2020 | 72.29 | -- | -- | 3,468.79 |
| 4/27/2021 | 74.00 | 73.99 | 0.01 | 3,467.09 | | | |
| 1/4/2022 | 73.50 | 72.87 | 0.63 | 3,468.02 | | | |
| 9/30/2024 | 78.10 | 77.18 | 0.92 | 3,463.62 | | | |
| MW-03-03 | 3,544.72 | 85.40 | 5/20/2013 | 71.30 | -- | -- | 3,473.42 |
| | | | 10/15/2013 | 71.65 | -- | -- | 3,473.07 |
| | | | 5/14/2014 | 72.90 | -- | -- | 3,471.82 |
| | | | 10/14/2014 | 71.30 | -- | -- | 3,473.42 |
| | | | 4/21/2015 | 71.40 | -- | -- | 3,473.32 |
| | | | 12/8/2015 | 71.70 | -- | -- | 3,473.02 |
| | | | 4/11/2016 | 71.81 | -- | -- | 3,472.91 |
| | | | 12/12/2016 | 72.20 | -- | -- | 3,472.52 |
| | | | 4/17/2017 | 73.29 | -- | -- | 3,471.43 |
| | | | 10/25/2017 | 74.84 | -- | -- | 3,469.88 |
| | | | 12/8/2017 | 73.90 | -- | -- | 3,470.82 |
| | | | 3/13/2018 | 74.39 | -- | -- | 3,470.33 |
| | | | 3/19/2018 | 74.47 | -- | -- | 3,470.25 |
| | | | 12/4/2018 | 75.03 | 74.63 | 0.40 | 3,469.97 |
| | | | 4/24/2019 | 75.67 | 75.21 | 0.46 | 3,469.37 |
| | | | 12/9/2019 | 74.43 | 74.03 | 0.40 | 3,470.57 |
| | | | 4/6/2020 | 74.10 | Trace | Trace | 3,470.62 |
| | | | 9/22/2020 | 75.12 | 74.95 | 0.17 | 3,469.72 |
| 4/27/2021 | 76.08 | 75.72 | 0.36 | 3,468.89 | | | |
| 1/4/2022 | 75.15 | -- | -- | 3,469.57 | | | |
| 9/30/2024 | 78.08 | 77.51 | 0.57 | 3,467.04 | | | |
| MW-03-04 | 3,558.45 | 117.50 | 5/20/2013 | 78.42 | 78.12 | 0.30 | 3,480.24 |
| | | | 10/15/2013 | 81.95 | 81.55 | 0.40 | 3,476.78 |
| | | | 5/14/2014 | 84.25 | 83.35 | 0.90 | 3,474.83 |
| | | | 10/14/2014 | 82.25 | 81.80 | 0.45 | 3,476.52 |
| | | | 4/21/2015 | 82.55 | 82.35 | 0.20 | 3,476.04 |
| | | | 12/8/2015 | 82.95 | 82.70 | 0.25 | 3,475.68 |
| | | | 4/11/2016 | 83.43 | 83.08 | 0.35 | 3,475.27 |
| | | | 12/12/2016 | 84.20 | 83.55 | 0.65 | 3,474.71 |
| | | | 4/17/2017 | 86.92 | 84.90 | 2.02 | 3,472.94 |
| | | | 10/25/2017 | 87.57 | 85.89 | 1.68 | 3,472.06 |
| | | | 12/8/2017 | 85.96 | -- | -- | 3,472.49 |
| | | | 3/13/2018 | 86.79 | -- | -- | 3,471.66 |
| | | | 3/19/2018 | 86.59 | -- | -- | 3,471.86 |
| | | | 12/4/2018 | 87.69 | -- | -- | 3,470.76 |
| | | | 4/24/2019 | 88.15 | -- | -- | 3,470.30 |
| | | | 8/30/2019 | 88.45 | 88.23 | 0.22 | 3,470.00 |
| | | | 12/9/2019 | 70.90 | -- | -- | 3,487.55 |
| | | | 4/6/2020 | 86.85 | Trace | Trace | 3,471.60 |
| 9/22/2020 | 87.97 | -- | -- | 3,470.48 | | | |
| 4/27/2021 | 88.62 | -- | -- | 3,469.83 | | | |
| 1/4/2022 | 88.38 | -- | -- | 3,470.07 | | | |
| 9/30/2024 | 91.43 | -- | -- | 3,467.02 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|----------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | |
| MW-04 | 3,550.99 | 62.59 | 5/20/2013 | 52.10 | 52.03 | 0.07 | 3,498.94 | |
| | | | 10/15/2013 | 53.45 | 53.25 | 0.20 | 3,497.68 | |
| | | | 5/14/2014 | 58.30 | 57.80 | 0.50 | 3,493.04 | |
| | | | 10/14/2014 | 53.25 | 53.00 | 0.25 | 3,497.92 | |
| | | | 4/21/2015 | 57.55 | 56.90 | 0.65 | 3,493.90 | |
| | | | 12/8/2015 | 54.20 | 53.55 | 0.65 | 3,497.25 | |
| | | | 4/11/2016 | 53.75 | 52.97 | 0.78 | 3,497.79 | |
| | | | 12/12/2016 | 53.65 | 52.86 | 0.79 | 3,497.89 | |
| | | | 4/17/2017 | 58.33 | 57.45 | 0.88 | 3,493.28 | |
| | | | 10/25/2017 | 54.60 | 53.83 | 0.77 | 3,496.93 | |
| | | | 12/8/2017 | | | | DRY | |
| | | | 3/13/2018 | | | | DRY | |
| | | | 3/19/2018 | | | | DRY | |
| | | | 12/4/2018 | 52.95 | -- | -- | | 3,498.04 |
| | | | 4/24/2019 | 59.85 | 58.00 | 1.85 | | 3,491.14 |
| | | | 12/10/2019 | 55.03 | 54.77 | 0.26 | | 3,495.96 |
| | | | 4/6/2020 | | | | DRY | |
| | | | 9/22/2020 | | | | DRY | |
| | | | 4/27/2021 | | | | DRY | |
| | | | 1/4/2022 | | | | DRY | |
| 9/30/2024 | | | | DRY | | | | |
| MW-05 | 3,543.77 | 95.30 | 5/20/2013 | 66.73 | -- | -- | 3,477.04 | |
| | | | 10/15/2013 | 67.60 | -- | -- | 3,476.17 | |
| | | | 5/14/2014 | 69.70 | -- | -- | 3,474.07 | |
| | | | 10/14/2014 | 67.00 | -- | -- | 3,476.77 | |
| | | | 4/21/2015 | 68.02 | -- | -- | 3,475.75 | |
| | | | 12/8/2015 | 68.20 | -- | -- | 3,475.57 | |
| | | | 4/11/2016 | 68.22 | -- | -- | 3,475.55 | |
| | | | 12/12/2016 | 68.92 | -- | -- | 3,474.85 | |
| | | | 4/17/2017 | 70.49 | -- | -- | 3,473.28 | |
| | | | 10/25/2017 | 70.92 | -- | -- | 3,472.85 | |
| | | | 12/8/2017 | 76.68 | -- | -- | 3,467.09 | |
| | | | 3/13/2018 | 72.90 | -- | -- | 3,470.87 | |
| | | | 3/19/2018 | 72.24 | -- | -- | 3,471.53 | |
| | | | 12/4/2018 | 72.29 | -- | -- | 3,471.48 | |
| | | | 4/24/2019 | 73.42 | -- | -- | 3,470.35 | |
| | | | 12/9/2019 | 71.02 | -- | -- | 3,472.75 | |
| | | | 4/7/2020 | 71.86 | -- | -- | 3,471.91 | |
| | | | 9/22/2020 | 73.15 | -- | -- | 3,470.62 | |
| | | | 4/28/2021 | 74.44 | -- | -- | 3,469.33 | |
| | | | 1/4/2022 | 73.37 | -- | -- | 3,470.40 | |
| 9/30/2024 | 77.25 | -- | -- | 3,466.52 | | | | |
| MW-06 | 3,544.50 | 76.90 | 5/20/2013 | 46.30 | 42.48 | 3.82 | 3,500.87 | |
| | | | 10/15/2013 | 46.80 | 41.68 | 5.12 | 3,501.28 | |
| | | | 5/14/2014 | 47.00 | 44.70 | 2.30 | 3,499.11 | |
| | | | 10/14/2014 | 43.70 | 39.60 | 4.10 | 3,503.67 | |
| | | | 4/21/2015 | 44.90 | 42.80 | 2.10 | 3,501.07 | |
| | | | 12/8/2015 | 46.45 | 43.05 | 3.40 | 3,500.43 | |
| | | | 4/11/2016 | 46.52 | 43.59 | 2.93 | 3,500.03 | |
| | | | 12/13/2016 | 46.31 | 43.78 | 2.53 | 3,499.96 | |
| | | | 4/17/2017 | 46.30 | 43.85 | 2.45 | 3,499.92 | |
| | | | 10/25/2017 | 46.00 | 44.76 | 1.24 | 3,499.37 | |
| | | | 12/8/2017 | 45.91 | 45.90 | 0.01 | 3,498.60 | |
| | | | 3/13/2018 | 47.45 | 46.12 | 1.33 | 3,497.98 | |
| | | | 3/19/2018 | 47.45 | 46.06 | 1.39 | 3,498.02 | |
| | | | 12/4/2018 | 46.15 | 44.86 | 1.29 | 3,499.25 | |
| | | | 4/24/2019 | 46.69 | 46.08 | 0.61 | 3,498.24 | |
| | | | 8/30/2019 | 47.46 | 47.35 | 0.11 | 3,497.12 | |
| | | | 12/9/2019 | 46.53 | 46.52 | 0.01 | 3,497.98 | |
| | | | 4/7/2020 | 46.15 | 46.02 | 0.13 | 3,498.44 | |
| | | | 9/22/2020 | 46.76 | 46.62 | 0.14 | 3,497.84 | |
| | | | 4/28/2021 | 47.42 | 47.40 | 0.02 | 3,497.09 | |
| 1/4/2022 | 47.02 | 46.38 | 0.64 | 3,497.93 | | | | |
| 9/30/2024 | 47.45 | 47.42 | 0.03 | 3,497.07 | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-07 | 3,546.49 | 26.35 | 5/20/2013 | 4.30 | -- | -- | 3,542.19 |
| | | | 10/15/2013 | 8.05 | -- | -- | 3,538.44 |
| | | | 5/14/2014 | 8.10 | -- | -- | 3,538.39 |
| | | | 10/14/2014 | 7.30 | -- | -- | 3,539.19 |
| | | | 4/21/2015 | 7.90 | -- | -- | 3,538.59 |
| | | | 12/8/2015 | 6.00 | -- | -- | 3,540.49 |
| | | | 4/11/2016 | 5.61 | -- | -- | 3,540.88 |
| | | | 12/12/2016 | 8.88 | -- | -- | 3,537.61 |
| | | | 4/17/2017 | 7.98 | -- | -- | 3,538.51 |
| | | | 10/25/2017 | 8.63 | -- | -- | 3,537.86 |
| | | | 12/8/2017 | 8.95 | -- | -- | 3,537.54 |
| | | | 3/19/2018 | 9.68 | -- | -- | 3,536.81 |
| | | | 12/4/2018 | 8.72 | -- | -- | 3,537.77 |
| | | | 4/24/2019 | 8.88 | -- | -- | 3,537.61 |
| | | | 12/9/2019 | 8.88 | -- | -- | 3,537.61 |
| | | | 4/7/2020 | 8.80 | -- | -- | 3,537.69 |
| | | | 9/21/2020 | 9.52 | -- | -- | 3,536.97 |
| | | | 4/28/2021 | 10.23 | -- | -- | 3,536.26 |
| 1/4/2022 | 9.43 | -- | -- | 3,537.06 | | | |
| 9/30/2024 | 9.29 | -- | -- | 3,537.20 | | | |
| MW-08 | 3,543.73 | 88.95 | 5/20/2013 | 66.07 | -- | -- | 3,477.66 |
| | | | 10/15/2013 | 66.45 | -- | -- | 3,477.28 |
| | | | 5/14/2014 | 68.15 | -- | -- | 3,475.58 |
| | | | 10/14/2014 | 65.95 | -- | -- | 3,477.78 |
| | | | 4/21/2015 | 67.10 | -- | -- | 3,476.63 |
| | | | 12/8/2015 | 67.25 | -- | -- | 3,476.48 |
| | | | 4/11/2016 | 67.36 | -- | -- | 3,476.37 |
| | | | 12/12/2016 | 67.23 | -- | -- | 3,476.50 |
| | | | 4/17/2017 | 67.20 | -- | -- | 3,476.53 |
| | | | 10/25/2017 | 70.02 | -- | -- | 3,473.71 |
| | | | 12/8/2017 | 70.43 | -- | -- | 3,473.30 |
| | | | 3/13/2018 | 71.22 | -- | -- | 3,472.51 |
| | | | 3/19/2018 | 71.11 | -- | -- | 3,472.62 |
| | | | 12/4/2018 | 72.03 | -- | -- | 3,471.70 |
| | | | 4/24/2019 | 74.09 | -- | -- | 3,469.64 |
| | | | 12/9/2019 | 70.91 | -- | -- | 3,472.82 |
| | | | 4/6/2020 | 71.02 | -- | -- | 3,472.71 |
| | | | 9/22/2020 | 72.59 | -- | -- | 3,471.14 |
| 4/28/2021 | 74.10 | -- | -- | 3,469.63 | | | |
| 1/4/2022 | 73.33 | -- | -- | 3,470.40 | | | |
| 9/30/2024 | 76.60 | -- | -- | 3,467.13 | | | |
| MW-09 | 3,542.82 | 75.80 | 5/20/2013 | 56.50 | -- | -- | 3,486.32 |
| | | | 10/15/2013 | 57.55 | 57.25 | 0.30 | 3,485.48 |
| | | | 5/14/2014 | 59.32 | 58.50 | 0.82 | 3,484.07 |
| | | | 10/14/2014 | 57.95 | 55.90 | 2.05 | 3,486.31 |
| | | | 4/21/2015 | 60.80 | 58.70 | 2.10 | 3,483.49 |
| | | | 12/8/2015 | 59.60 | 58.85 | 0.75 | 3,483.75 |
| | | | 4/11/2016 | 59.66 | 58.47 | 1.19 | 3,483.99 |
| | | | 12/13/2016 | 59.74 | 58.28 | 1.46 | 3,484.10 |
| | | | 4/17/2017 | 59.70 | 58.28 | 1.42 | 3,484.11 |
| | | | 10/25/2017 | 63.44 | 61.65 | 1.79 | 3,480.63 |
| | | | 12/8/2017 | 63.35 | 61.81 | 1.54 | 3,480.55 |
| | | | 3/13/2018 | 64.56 | 62.96 | 1.60 | 3,479.38 |
| | | | 3/19/2018 | 64.69 | 63.01 | 1.68 | 3,479.31 |
| | | | 12/4/2018 | 64.18 | 64.14 | 0.04 | 3,478.67 |
| | | | 4/24/2019 | 65.70 | -- | -- | 3,477.12 |
| | | | 12/9/2019 | 61.88 | -- | -- | 3,480.94 |
| | | | 4/6/2020 | 62.50 | -- | -- | 3,480.32 |
| | | | 9/22/2020 | 64.79 | -- | -- | 3,478.03 |
| 4/27/2021 | 66.58 | -- | -- | 3,476.24 | | | |
| 1/4/2022 | 65.45 | -- | -- | 3,474.37 | | | |
| 9/30/2024 | 69.44 | 69.34 | 0.10 | 3,473.45 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|--|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | | | |
| MW-10 | 3,544.44 | 53.24 | 5/20/2013 | 51.60 | 45.55 | 6.05 | 3,497.08 | | | |
| | | | 10/15/2013 | 52.00 | 47.55 | 4.45 | 3,495.56 | | | |
| | | | 5/14/2014 | 52.30 | 50.70 | 1.60 | 3,493.26 | | | |
| | | | 10/14/2014 | 51.10 | 47.40 | 3.70 | 3,495.93 | | | |
| | | | 4/21/2015 | 50.95 | 48.05 | 2.90 | 3,495.52 | | | |
| | | | 12/8/2015 | 53.00 | 48.70 | 4.30 | 3,494.45 | | | |
| | | | 4/11/2016 | 52.62 | 44.81 | 7.81 | 3,497.29 | | | |
| | | | 12/13/2016 | 52.61 | 50.40 | 2.21 | 3,493.38 | | | |
| | | | 4/17/2017 | 52.60 | 50.51 | 2.09 | 3,493.30 | | | |
| | | | 10/25/2017 | 52.69 | 50.76 | 1.93 | 3,493.10 | | | |
| | | | 12/8/2017 | 52.83 | -- | -- | 3,491.61 | | | |
| | | | 3/13/2018 | 53.31 | 52.63 | 0.68 | 3,491.61 | | | |
| | | | 3/19/2018 | 52.88 | 52.64 | 0.24 | 3,491.73 | | | |
| | | | 12/4/2018 | 52.66 | 52.64 | 0.02 | 3,491.79 | | | |
| | | | 4/24/2019 | -- | 52.91 | -- | -- | | | |
| | | | 12/9/2019 | ** | 52.73 | -- | -- | | | |
| | | | 4/6/2020 | H ₂ S PRESENT IN WELL | | | | | | |
| | | | 9/22/2020 | 52.44 | 52.26 | 0.18 | 3,492.13 | | | |
| | | | 4/27/2021 | 52.71 | -- | -- | 3,491.73 | | | |
| | | | 1/4/2022 | 52.64 | 52.45 | 0.19 | 3,491.93 | | | |
| 9/30/2024 | 25.08 | 25.04 | 0.04 | -- | | | | | | |
| MW-11 | 3,542.73 | 58.98 | 5/20/2013 | 56.10 | -- | -- | 3,486.63 | | | |
| | | | 10/15/2013 | 57.00 | -- | -- | 3,485.73 | | | |
| | | | 5/14/2014 | 58.98 | 58.30 | 0.68 | 3,484.23 | | | |
| | | | 10/14/2014 | 56.20 | 56.00 | 0.20 | 3,486.67 | | | |
| | | | 4/21/2015 | 58.98 | 58.60 | 0.38 | 3,484.02 | | | |
| | | | 12/8/2015 | 58.98 | 58.40 | 0.58 | 3,484.16 | | | |
| | | | 4/11/2016 | 58.41 | 58.38 | 0.03 | 3,484.34 | | | |
| | | | 12/13/2016 | 58.33 | Trace | Trace | 3,484.40 | | | |
| | | | 4/17/2017 | 58.55 | 58.40 | 0.15 | 3,484.29 | | | |
| | | | 10/25/2017 | 58.47 | -- | -- | 3,484.26 | | | |
| | | | 12/8/2017 | 58.51 | -- | -- | 3,484.22 | | | |
| | | | 3/13/2018 | 58.74 | -- | -- | 3,483.99 | | | |
| | | | 3/19/2018 | 58.55 | -- | -- | 3,484.18 | | | |
| | | | 12/4/2018 | 58.60 | -- | -- | 3,484.13 | | | |
| | | | 4/24/2019 | 58.86 | -- | -- | 3,483.87 | | | |
| | | | 12/9/2019 | 58.93 | -- | -- | 3,483.80 | | | |
| | | | 4/6/2020 | DRY | | | | | | |
| | | | 9/22/2020 | DRY | | | | | | |
| | | | 4/28/2021 | DRY | | | | | | |
| | | | 1/4/2022 | DRY | | | | | | |
| 9/30/2024 | DRY | | | | | | | | | |
| MW-12 | 3,525.25 | 74.11 | 5/20/2013 | 62.00 | -- | -- | 3,463.25 | | | |
| | | | 10/15/2013 | 61.20 | -- | -- | 3,464.05 | | | |
| | | | 5/14/2014 | 62.78 | -- | -- | 3,462.47 | | | |
| | | | 10/14/2014 | 60.95 | -- | -- | 3,464.30 | | | |
| | | | 4/21/2015 | 59.80 | -- | -- | 3,465.45 | | | |
| | | | 12/8/2015 | 60.45 | -- | -- | 3,464.80 | | | |
| | | | 4/11/2016 | 59.99 | -- | -- | 3,465.26 | | | |
| | | | 12/12/2016 | 60.40 | -- | -- | 3,464.85 | | | |
| | | | 4/17/2017 | 61.00 | -- | -- | 3,464.25 | | | |
| | | | 10/25/2017 | 62.31 | -- | -- | 3,462.94 | | | |
| | | | 12/8/2017 | 62.79 | -- | -- | 3,462.46 | | | |
| | | | 3/13/2018 | 63.50 | -- | -- | 3,461.75 | | | |
| | | | 3/19/2018 | 63.27 | -- | -- | 3,461.98 | | | |
| | | | 12/4/2018 | 64.20 | -- | -- | 3,461.05 | | | |
| | | | 4/24/2019 | 64.61 | -- | -- | 3,460.64 | | | |
| | | | 4/7/2020 | 64.20 | -- | -- | 3,461.05 | | | |
| | | | 9/22/2020 | 64.80 | -- | -- | 3,460.45 | | | |
| | | | 4/28/2021 | 65.61 | -- | -- | 3,459.64 | | | |
| | | | 1/4/2022 | 65.16 | -- | -- | 3,460.09 | | | |
| | | | 9/30/2024 | 68.32 | -- | -- | 3,456.93 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | |
| MW-13 | 3,561.40 | 88.64 | 5/20/2013 | 71.88 | -- | -- | 3,489.52 | |
| | | | 10/14/2013 | 83.00 | -- | -- | 3,478.40 | |
| | | | 5/14/2014 | >88.64 | 81.10 | -- | -- | |
| | | | 10/13/2014 | 84.65 | -- | -- | 3,476.75 | |
| | | | 4/20/2015 | 86.03 | -- | -- | 3,475.37 | |
| | | | 12/7/2015 | >88.64 | 83.00 | -- | -- | |
| | | | 4/11/2016 | 86.03 | * | -- | 3,475.37 | |
| | | | 12/12/2016 | 86.80 | -- | -- | 3,474.60 | |
| | | | 4/17/2017 | DRY | | | | |
| | | | 10/24/2017 | DRY | | | | |
| | | | 12/8/2017 | DRY | | | | |
| | | | 3/19/2018 | DRY | | | | |
| | | | 12/3/2018 | DRY | | | | |
| | | | 4/23/2019 | DRY | | | | |
| | | | 12/10/2019 | DRY | | | | |
| | | | 4/6/2020 | DRY | | | | |
| | | | 9/21/2020 | DRY | | | | |
| | | | 4/26/2021 | DRY | | | | |
| | | | 1/4/2022 | DRY | | | | |
| 9/30/2024 | Could Not Locate | | | | | | | |
| MW-14 | 3,520.32 | 72.50 | 5/20/2013 | 61.54 | 61.52 | 0.02 | 3,458.79 | |
| | | | 10/14/2013 | 60.61 | -- | -- | 3,459.71 | |
| | | | 5/14/2014 | 62.28 | 62.23 | 0.05 | 3,458.08 | |
| | | | 10/13/2014 | 60.80 | 57.80 | 3.00 | 3,461.62 | |
| | | | 4/20/2015 | 59.55 | -- | -- | 3,460.77 | |
| | | | 12/7/2015 | 59.50 | Trace | Trace | 3,525.06 | |
| | | | 4/11/2016 | 60.08 | -- | -- | 3,460.24 | |
| | | | 12/12/2016 | 59.38 | -- | -- | 3,460.94 | |
| | | | 4/17/2017 | 59.68 | 59.52 | 0.16 | 3,460.75 | |
| | | | 10/24/2017 | 61.53 | 61.42 | 0.11 | 3,458.87 | |
| | | | 12/8/2017 | 62.12 | 62.00 | 0.12 | 3,458.28 | |
| | | | 3/13/2018 | 64.02 | 63.80 | 0.22 | 3,456.45 | |
| | | | 3/19/2018 | 64.30 | -- | -- | 3,456.02 | |
| | | | 12/3/2018 | 65.37 | 63.15 | 2.22 | 3,456.50 | |
| | | | 4/24/2019 | 67.64 | 66.29 | 1.35 | 3,453.63 | |
| | | | 8/30/2019 | 66.54 | 66.28 | 0.26 | 3,453.96 | |
| | | | 12/10/2019 | 63.51 | 63.24 | 0.27 | 3,457.00 | |
| | | | 4/6/2020 | 64.87 | 64.13 | 0.74 | 3,455.97 | |
| | | | 9/21/2020 | 65.70 | 65.55 | 0.15 | 3,454.73 | |
| | | | 4/27/2021 | 66.96 | 66.90 | 0.06 | 3,453.40 | |
| 1/5/2022 | 67.33 | 59.39 | 7.94 | 3,458.55 | | | | |
| 9/30/2024 | Could Not Locate | | | | | | | |
| MW-15 | 3,562.45 | 80.20 | 5/20/2013 | 67.30 | -- | -- | 3,495.15 | |
| | | | 10/14/2013 | 66.52 | -- | -- | 3,495.93 | |
| | | | 5/14/2014 | 67.75 | -- | -- | 3,494.70 | |
| | | | 10/13/2014 | 65.65 | -- | -- | 3,496.80 | |
| | | | 4/20/2015 | 67.30 | -- | -- | 3,495.15 | |
| | | | 12/7/2015 | 64.70 | -- | -- | 3,497.75 | |
| | | | 4/11/2016 | 67.26 | -- | -- | 3,495.19 | |
| | | | 12/12/2016 | 67.16 | -- | -- | 3,495.29 | |
| | | | 4/17/2017 | 67.58 | -- | -- | 3,494.87 | |
| | | | 10/24/2017 | 67.24 | -- | -- | 3,495.21 | |
| | | | 12/8/2017 | 67.34 | -- | -- | 3,495.11 | |
| | | | 3/19/2018 | 67.55 | -- | -- | 3,494.90 | |
| | | | 12/3/2018 | 67.73 | -- | -- | 3,494.72 | |
| | | | 4/23/2019 | 66.18 | -- | -- | 3,496.27 | |
| | | | 12/9/2019 | 65.03 | -- | -- | 3,497.42 | |
| | | | 4/6/2020 | 67.43 | -- | -- | 3,495.02 | |
| | | | 9/21/2020 | 65.64 | -- | -- | 3,496.81 | |
| | | | 4/26/2021 | 67.61 | -- | -- | 3,494.84 | |
| | | | 1/4/2022 | 67.80 | -- | -- | 3,494.65 | |
| | | | 9/30/2024 | 67.55 | -- | -- | 3,494.90 | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-16 | 3,585.46 | 117.39 | 5/20/2013 | 111.70 | -- | -- | 3,473.76 |
| | | | 10/14/2013 | 112.30 | -- | -- | 3,473.16 |
| | | | 5/14/2014 | 114.10 | -- | -- | 3,471.36 |
| | | | 10/13/2014 | 113.85 | -- | -- | 3,471.61 |
| | | | 4/20/2015 | 112.45 | -- | -- | 3,473.01 |
| | | | 12/7/2015 | 114.25 | -- | -- | 3,471.21 |
| | | | 4/11/2016 | 114.72 | -- | -- | 3,470.74 |
| | | | 12/12/2016 | 115.30 | -- | -- | 3,470.16 |
| | | | 4/17/2017 | 115.72 | -- | -- | 3,469.74 |
| | | | 10/24/2017 | 116.79 | -- | -- | 3,468.67 |
| | | | 12/8/2017 | 116.85 | -- | -- | 3,468.61 |
| | | | 3/19/2018 | 116.83 | -- | -- | 3,468.63 |
| | | | 12/4/2018 | 116.90 | -- | -- | 3,468.56 |
| | | | 4/24/2019 | 116.86 | -- | -- | 3,468.60 |
| | | | 12/9/2019 | 116.86 | -- | -- | 3,468.60 |
| | | | 4/6/2020 | 116.89 | -- | -- | 3,468.57 |
| | | | 9/21/2020 | 116.85 | -- | -- | 3,468.61 |
| | | | 4/26/2021 | 116.87 | -- | -- | 3,468.59 |
| 1/4/2022 | 116.88 | -- | -- | 3,468.58 | | | |
| 9/30/2024 | Could Not Locate | | | | | | |
| MW-17 | 3,570.84 | 101.60 | 5/20/2013 | 93.36 | -- | -- | 3,477.48 |
| | | | 10/15/2013 | 93.00 | -- | -- | 3,477.84 |
| | | | 5/14/2014 | 95.61 | -- | -- | 3,475.23 |
| | | | 10/14/2014 | 95.15 | -- | -- | 3,475.69 |
| | | | 4/20/2015 | 95.80 | -- | -- | 3,475.04 |
| | | | 12/7/2015 | 96.45 | -- | -- | 3,474.39 |
| | | | 4/11/2016 | 95.34 | -- | -- | 3,475.50 |
| | | | 12/12/2016 | 96.60 | -- | -- | 3,474.24 |
| | | | 4/17/2017 | 97.72 | -- | -- | 3,473.12 |
| | | | 10/24/2017 | 97.75 | -- | -- | 3,473.09 |
| | | | 12/8/2017 | 95.92 | -- | -- | 3,474.92 |
| | | | 3/19/2018 | 98.21 | -- | -- | 3,472.63 |
| | | | 12/4/2018 | 97.05 | -- | -- | 3,473.79 |
| | | | 4/23/2019 | 98.58 | -- | -- | 3,472.26 |
| | | | 12/9/2019 | 98.23 | -- | -- | 3,472.61 |
| | | | 4/6/2020 | 98.10 | -- | -- | 3,472.74 |
| | | | 9/21/2020 | 98.28 | -- | -- | 3,472.56 |
| | | | 4/26/2021 | 98.16 | -- | -- | 3,472.68 |
| 1/4/2022 | 98.28 | -- | -- | 3,472.56 | | | |
| 9/30/2024 | 98.39 | -- | -- | 3,472.45 | | | |
| MW-18 | 3,532.63 | 56.53 | 5/20/2013 | 50.95 | -- | -- | 3,481.68 |
| | | | 10/14/2013 | 50.50 | Trace | Trace | 3,482.13 |
| | | | 5/14/2014 | 51.31 | -- | -- | 3,481.32 |
| | | | 10/13/2014 | 51.79 | -- | -- | 3,480.84 |
| | | | 4/20/2015 | 51.02 | -- | -- | 3,481.61 |
| | | | 12/7/2015 | 52.21 | -- | -- | 3,480.42 |
| | | | 4/11/2016 | 51.57 | -- | -- | 3,481.06 |
| | | | 12/12/2016 | 50.90 | -- | -- | 3,481.73 |
| | | | 4/17/2017 | 52.12 | -- | -- | 3,480.51 |
| | | | 10/24/2017 | 53.91 | -- | -- | 3,478.72 |
| | | | 12/8/2017 | 53.89 | -- | -- | 3,478.74 |
| | | | 3/19/2018 | 53.61 | -- | -- | 3,479.02 |
| | | | 12/5/2018 | 57.61 | -- | -- | 3,475.02 |
| | | | 4/23/2019 | 55.69 | -- | -- | 3,476.94 |
| | | | 12/9/2019 | 55.07 | -- | -- | 3,477.56 |
| | | | 4/6/2020 | 54.26 | -- | -- | 3,478.37 |
| | | | 9/21/2020 | 55.49 | -- | -- | 3,477.14 |
| | | | 4/26/2021 | 56.04 | -- | -- | 3,476.59 |
| 1/4/2022 | 56.04 | -- | -- | 3,476.59 | | | |
| 9/30/2024 | 56.25 | -- | -- | 3,476.38 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-19 | 3,543.34 | 79.42 | 5/20/2013 | 71.15 | 67.10 | 4.05 | 3,475.03 |
| | | | 10/15/2013 | 71.10 | 67.00 | 4.10 | 3,475.11 |
| | | | 5/14/2014 | 73.30 | 62.75 | 10.55 | 3,477.43 |
| | | | 10/14/2014 | 70.10 | 66.50 | 3.60 | 3,475.76 |
| | | | 4/21/2015 | 72.45 | 66.00 | 6.45 | 3,475.41 |
| | | | 12/7/2015 | 68.60 | 65.50 | 3.10 | 3,476.91 |
| | | | 4/11/2016 | 69.66 | 67.24 | 2.42 | 3,475.37 |
| | | | 12/13/2016 | 68.00 | 65.78 | 2.22 | 3,476.89 |
| | | | 4/17/2017 | 70.41 | 68.00 | 2.41 | 3,474.62 |
| | | | 10/25/2017 | 71.30 | 69.85 | 1.45 | 3,473.06 |
| | | | 12/8/2017 | 72.10 | 71.97 | 0.13 | 3,471.33 |
| | | | 3/13/2018 | 72.85 | 72.56 | 0.29 | 3,470.69 |
| | | | 3/19/2018 | 72.75 | 72.54 | 0.21 | 3,470.74 |
| | | | 12/4/2018 | 74.05 | 73.89 | 0.16 | 3,469.40 |
| | | | 4/24/2019 | 75.03 | 74.87 | 0.16 | 3,468.42 |
| | | | 8/30/2019 | 75.63 | 75.37 | 0.26 | 3,467.89 |
| | | | 12/9/2019 | 73.70 | -- | -- | 3,469.64 |
| | | | 4/6/2020 | 73.19 | -- | -- | 3,470.15 |
| | | | 9/22/2020 | 74.42 | 74.41 | 0.01 | 3,468.93 |
| | | | 4/26/2021 | 75.86 | 75.84 | 0.02 | 3,467.49 |
| 1/4/2022 | 75.45 | Trace | Trace | 3,467.89 | | | |
| 9/30/2024 | 78.40 | -- | -- | 3,464.94 | | | |
| MW-20 | 3,541.47 | 79.39 | 5/20/2013 | 71.05 | 71.02 | 0.03 | 3,470.44 |
| | | | 10/15/2013 | 70.45 | 70.40 | 0.05 | 3,471.06 |
| | | | 5/14/2014 | 72.00 | 71.50 | 0.50 | 3,469.82 |
| | | | 10/14/2014 | 69.90 | -- | -- | 3,471.57 |
| | | | 4/21/2015 | 70.90 | -- | -- | 3,470.57 |
| | | | 12/7/2015 | 70.71 | Trace | Trace | 3,470.76 |
| | | | 4/11/2016 | 70.93 | -- | -- | 3,470.54 |
| | | | 12/12/2016 | 71.00 | -- | -- | 3,470.47 |
| | | | 4/17/2017 | 71.91 | -- | -- | 3,469.56 |
| | | | 10/25/2017 | 72.13 | -- | -- | 3,469.34 |
| | | | 12/8/2017 | 72.59 | -- | -- | 3,468.88 |
| | | | 3/13/2018 | 73.20 | -- | -- | 3,468.27 |
| | | | 3/19/2018 | 72.96 | -- | -- | 3,468.51 |
| | | | 12/4/2018 | 73.73 | -- | -- | 3,467.74 |
| | | | 4/24/2019 | 74.50 | -- | -- | 3,466.97 |
| | | | 12/9/2019 | 72.57 | -- | -- | 3,468.90 |
| | | | 4/7/2020 | 73.00 | -- | -- | 3,468.47 |
| | | | 9/22/2020 | 74.21 | -- | -- | 3,467.26 |
| | | | 4/27/2021 | 75.14 | -- | -- | 3,466.33 |
| | | | 1/4/2022 | 74.66 | -- | -- | 3,466.81 |
| 9/30/2024 | 78.20 | -- | -- | 3,463.27 | | | |
| MW-21 | 3,543.15 | 81.48 | 5/20/2013 | 67.65 | 66.65 | 1.00 | 3,476.20 |
| | | | 10/15/2013 | 68.60 | 67.40 | 1.20 | 3,475.39 |
| | | | 5/14/2014 | 70.50 | 69.23 | 1.27 | 3,473.54 |
| | | | 10/14/2014 | 67.92 | 66.80 | 1.12 | 3,476.01 |
| | | | 4/21/2015 | 68.60 | 67.55 | 1.05 | 3,475.29 |
| | | | 12/7/2015 | 68.80 | 67.80 | 1.00 | 3,475.05 |
| | | | 4/11/2016 | 68.83 | 67.71 | 1.12 | 3,475.10 |
| | | | 12/12/2016 | 69.41 | 67.80 | 1.61 | 3,474.87 |
| | | | 4/17/2017 | 71.78 | 70.60 | 1.18 | 3,472.20 |
| | | | 10/25/2017 | 71.10 | 69.50 | 1.60 | 3,473.17 |
| | | | 12/8/2017 | 70.98 | 70.97 | 0.01 | 3,472.18 |
| | | | 3/13/2018 | 74.90 | 72.10 | 2.80 | 3,470.21 |
| | | | 3/19/2018 | 72.45 | 72.10 | 0.35 | 3,470.95 |
| | | | 12/4/2018 | 77.83 | 68.26 | 9.57 | 3,472.02 |
| | | | 8/30/2019 | 74.30 | 74.00 | 0.30 | 3,469.06 |
| | | | 12/9/2019 | 66.73 | 66.68 | 0.05 | 3,476.46 |
| | | | 4/7/2020 | 69.53 | 69.27 | 0.26 | 3,473.80 |
| | | | 9/22/2020 | 73.45 | 72.63 | 0.82 | 3,470.27 |
| | | | 4/27/2021 | 74.65 | 74.31 | 0.34 | 3,468.74 |
| | | | 1/4/2022 | 76.41 | 71.73 | 4.68 | 3,470.02 |
| 9/30/2024 | 79.97 | 75.75 | 4.22 | 3,466.13 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| MW-22 | 3,545.87 | 41.07 | 5/20/2013 | 20.90 | -- | -- | 3,524.97 |
| | | | 10/15/2013 | 17.40 | -- | -- | 3,528.47 |
| | | | 5/14/2014 | 21.51 | -- | -- | 3,524.36 |
| | | | 10/14/2014 | 15.55 | -- | -- | 3,530.32 |
| | | | 4/21/2015 | 18.60 | Trace | Trace | 3,527.27 |
| | | | 12/7/2015 | 17.95 | -- | -- | 3,527.92 |
| | | | 4/11/2016 | 19.77 | -- | -- | 3,526.10 |
| | | | 12/12/2016 | 20.18 | -- | -- | 3,525.69 |
| | | | 4/17/2017 | 20.36 | -- | -- | 3,525.51 |
| | | | 10/25/2017 | 20.51 | -- | -- | 3,525.36 |
| | | | 12/8/2017 | 21.23 | -- | -- | 3,524.64 |
| | | | 3/13/2018 | 22.15 | -- | -- | 3,523.72 |
| | | | 3/19/2018 | 22.22 | -- | -- | 3,523.65 |
| | | | 12/4/2018 | 21.60 | -- | -- | 3,524.27 |
| | | | 4/25/2019 | 22.61 | -- | -- | 3,523.26 |
| | | | 12/9/2019 | 21.36 | -- | -- | 3,524.51 |
| | | | 4/6/2020 | 22.60 | -- | -- | 3,523.27 |
| 9/22/2020 | 23.15 | -- | -- | 3,522.72 | | | |
| 4/27/2021 | 23.89 | -- | -- | 3,521.98 | | | |
| 1/4/2022 | 23.22 | -- | -- | 3,522.65 | | | |
| 9/30/2024 | 23.95 | -- | -- | 3,521.92 | | | |
| MW-23 | 3,542.21 | 85.74 | 5/20/2013 | 72.71 | -- | -- | 3,469.50 |
| | | | 10/14/2013 | 72.72 | -- | -- | 3,469.49 |
| | | | 5/14/2014 | 74.70 | -- | -- | 3,467.51 |
| | | | 10/13/2014 | 72.37 | -- | -- | 3,469.84 |
| | | | 4/20/2015 | 71.98 | -- | -- | 3,470.23 |
| | | | 12/7/2015 | 72.65 | -- | -- | 3,469.56 |
| | | | 4/11/2016 | 72.94 | -- | -- | 3,469.27 |
| | | | 12/12/2016 | 72.95 | -- | -- | 3,469.26 |
| | | | 4/17/2017 | 74.02 | -- | -- | 3,468.19 |
| | | | 10/24/2017 | 75.11 | -- | -- | 3,467.10 |
| | | | 12/8/2017 | 76.81 | -- | -- | 3,465.40 |
| | | | 3/13/2018 | 77.51 | -- | -- | 3,464.70 |
| | | | 3/19/2018 | 77.67 | -- | -- | 3,464.54 |
| | | | 12/4/2018 | 78.33 | -- | -- | 3,463.88 |
| | | | 4/23/2019 | 78.92 | 78.83 | 0.09 | 3,463.35 |
| | | | 8/30/2019 | 79.40 | 79.38 | 0.02 | 3,462.82 |
| | | | 12/9/2019 | 78.00 | 77.90 | 0.10 | 3,464.28 |
| 4/6/2020 | 78.04 | Trace | Trace | 3,464.17 | | | |
| 9/21/2020 | 78.81 | 78.71 | 0.10 | 3,463.47 | | | |
| 4/27/2021 | 79.80 | 79.72 | 0.08 | 3,462.47 | | | |
| 1/4/2022 | 79.28 | 79.26 | 0.02 | 3,462.94 | | | |
| 9/30/2024 | 82.67 | -- | -- | 3,459.54 | | | |
| MW-24 | 3,529.10 | 36.00 | 5/30/2012 | 29.69 | -- | -- | 3,499.41 |
| | | | 9/24/2012 | 33.00 | -- | -- | 3,496.10 |
| | | | 5/14/2014 | 29.50 | -- | -- | 3,499.60 |
| | | | 10/13/2014 | 21.69 | -- | -- | 3,507.41 |
| | | | 4/20/2015 | 24.92 | -- | -- | 3,504.18 |
| | | | 12/7/2015 | 24.50 | -- | -- | 3,504.60 |
| | | | 4/11/2016 | 24.89 | -- | -- | 3,504.21 |
| | | | 12/12/2016 | 22.10 | -- | -- | 3,507.00 |
| | | | 4/17/2017 | 23.65 | -- | -- | 3,505.45 |
| | | | 10/24/2017 | 27.38 | -- | -- | 3,501.72 |
| | | | 12/8/2017 | 29.50 | -- | -- | 3,499.60 |
| | | | 12/4/2018 | 32.53 | -- | -- | 3,496.57 |
| | | | 4/24/2019 | 34.90 | -- | -- | 3,494.20 |
| | | | 12/9/2019 | 28.06 | -- | -- | 3,501.04 |
| | | | 4/6/2020 | 31.90 | -- | -- | 3,497.20 |
| | | | 9/21/2020 | 34.69 | -- | -- | 3,494.41 |
| | | | 4/27/2021 | 35.59 | -- | -- | 3,493.51 |
| 1/4/2022 | 26.66 | -- | -- | 3,502.44 | | | |
| 9/30/2024 | 35.79 | -- | -- | 3,493.31 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | |
|--|-------------------------------------|------------------------|------------------|----------------------------------|--------------------------|----------------------|------------------------------------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* |
| EB-01 | 3,492.15 | 37.05 | 5/20/2013 | | | | DRY |
| | | | 10/14/2013 | | | | DRY |
| | | | 5/14/2014 | | | | DRY |
| | | | 10/13/2014 | | | | DRY |
| | | | 4/20/2015 | | | | DRY |
| | | | 12/7/2015 | | | | DRY |
| | | | 4/11/2016 | | | | DRY |
| | | | 12/12/2016 | | | | DRY |
| | | | 4/17/2017 | | | | DRY |
| | | | 10/24/2017 | | | | DRY |
| | | | 12/8/2017 | | | | DRY |
| | | | 12/4/2018 | | | | DRY |
| | | | 4/23/2019 | | | | DRY |
| | | | 12/9/2019 | | | | DRY |
| | | | 4/6/2020 | | | | DRY |
| | | | 9/21/2020 | | | | DRY |
| | | | 4/27/2021 | | | | DRY |
| 1/5/2022 | | | | DRY | | | |
| 9/30/2024 | | | Could Not Locate | | | | |
| EB-02 | 3,525.34 | 57.47 | 5/20/2013 | 42.05 | Trace | Trace | 3,483.29 |
| | | | 10/14/2013 | 42.45 | -- | -- | 3,482.89 |
| | | | 5/14/2014 | 42.72 | -- | -- | 3,482.62 |
| | | | 10/13/2014 | 43.40 | -- | -- | 3,481.94 |
| | | | 4/20/2015 | 43.70 | -- | -- | 3,481.64 |
| | | | 12/7/2015 | 44.16 | -- | -- | 3,481.18 |
| | | | 4/11/2016 | 44.02 | -- | -- | 3,481.32 |
| | | | 12/12/2016 | 44.00 | -- | -- | 3,481.34 |
| | | | 4/17/2017 | 44.13 | -- | -- | 3,481.21 |
| | | | 10/24/2017 | 44.85 | -- | -- | 3,480.49 |
| | | | 12/8/2017 | 44.90 | -- | -- | 3,480.44 |
| | | | 12/5/2018 | 45.07 | -- | -- | 3,480.27 |
| | | | 4/23/2019 | 45.02 | -- | -- | 3,480.32 |
| | | | 12/9/2019 | 45.17 | -- | -- | 3,480.17 |
| | | | 4/6/2020 | 45.25 | -- | -- | 3,480.09 |
| | | | 9/21/2020 | 46.03 | -- | -- | 3,479.31 |
| | | | 4/26/2021 | 45.45 | -- | -- | 3,479.89 |
| 1/4/2022 | 45.82 | -- | -- | 3,479.52 | | | |
| 9/30/2024 | 46.39 | -- | -- | 3,478.95 | | | |
| EB-03 | 3,521.05 | 69.84 | 5/20/2013 | 61.36 | 61.32 | 0.04 | 3,459.72 |
| | | | 10/14/2013 | 60.78 | Trace | Trace | 3,460.27 |
| | | | 5/14/2014 | 61.69 | 61.65 | 0.04 | 3,459.39 |
| | | | 10/13/2014 | 58.95 | -- | -- | 3,462.10 |
| | | | 4/20/2015 | 60.75 | Trace | Trace | 3,460.30 |
| | | | 12/7/2015 | 61.60 | 60.80 | 0.80 | 3,460.01 |
| | | | 4/11/2016 | 61.95 | 60.85 | 1.10 | 3,459.87 |
| | | | 12/12/2016 | 61.20 | 60.80 | 0.40 | 3,460.13 |
| | | | 4/17/2017 | 61.35 | 60.85 | 0.50 | 3,460.05 |
| | | | 10/24/2017 | 61.09 | 60.91 | 0.18 | 3,460.09 |
| | | | 12/8/2017 | 61.10 | 61.05 | 0.05 | 3,459.99 |
| | | | 3/13/2018 | 64.07 | 63.69 | 0.38 | 3,457.25 |
| | | | 12/3/2018 | 60.88 | 60.87 | 0.01 | 3,460.18 |
| | | | 4/24/2019 | 65.74 | 65.30 | 0.44 | 3,455.62 |
| | | | 8/30/2019 | 67.43 | 66.94 | 0.49 | 3,453.96 |
| | | | 12/10/2019 | 60.91 | 60.83 | 0.08 | 3,460.20 |
| | | | 4/6/2020 | 62.28 | Trace | Trace | 3,458.77 |
| | | | 9/21/2020 | 64.89 | 64.87 | 0.02 | 3,456.17 |
| | | | 4/27/2021 | 67.33 | 67.08 | 0.25 | 3,453.90 |
| | | | 1/5/2022 | 64.60 | -- | -- | 3,456.45 |
| 9/30/2024 | | | Could Not Locate | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|----|----|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | | |
| EB-04 | 3,508.38 | 53.91 | 5/20/2013 | 52.63 | Trace | Trace | 3,455.75 | | |
| | | | 10/14/2013 | 52.70 | -- | -- | 3,455.68 | | |
| | | | 5/14/2014 | | | | DRY | | |
| | | | 10/13/2014 | | | | DRY | | |
| | | | 4/20/2015 | 50.81 | -- | -- | 3,457.57 | | |
| | | | 12/7/2015 | | | | DRY | | |
| | | | 4/11/2016 | | | | DRY | | |
| | | | 12/12/2016 | | | | DRY | | |
| | | | 4/17/2017 | | | | DRY | | |
| | | | 10/24/2017 | | | | DRY | | |
| | | | 12/8/2017 | | | | DRY | | |
| | | | 12/5/2018 | | | | DRY | | |
| | | | 4/23/2019 | | | | DRY | | |
| | | | 12/10/2019 | | | | DRY | | |
| | | | 4/6/2020 | | | | DRY | | |
| | | | 9/21/2020 | | | | DRY | | |
| | | | 4/27/2021 | | | | DRY | | |
| 1/5/2022 | | | | DRY | | | | | |
| 9/30/2024 | | | | Could Not Locate | | | | | |
| EB-05 | 3,526.61 | 57.93 | 5/20/2013 | 50.15 | Trace | Trace | 3,476.46 | | |
| | | | 10/14/2013 | 49.92 | -- | -- | 3,476.69 | | |
| | | | 5/14/2014 | 50.65 | -- | -- | 3,475.96 | | |
| | | | 10/13/2014 | 51.00 | -- | -- | 3,475.61 | | |
| | | | 4/20/2015 | 50.41 | -- | -- | 3,476.20 | | |
| | | | 12/7/2015 | 51.10 | -- | -- | 3,475.51 | | |
| | | | 4/11/2016 | 50.66 | -- | -- | 3,475.95 | | |
| | | | 12/12/2016 | 50.50 | -- | -- | 3,476.11 | | |
| | | | 4/17/2017 | 51.06 | -- | -- | 3,475.55 | | |
| | | | 10/24/2017 | 52.13 | -- | -- | 3,474.48 | | |
| | | | 12/8/2017 | 53.05 | -- | -- | 3,473.56 | | |
| | | | 12/5/2018 | 53.25 | -- | -- | 3,473.36 | | |
| | | | 4/23/2019 | 53.42 | -- | -- | 3,473.19 | | |
| | | | 12/10/2019 | 53.57 | -- | -- | 3,473.04 | | |
| | | | 4/6/2020 | 52.75 | -- | -- | 3,473.86 | | |
| | | | 9/21/2020 | 53.38 | -- | -- | 3,473.23 | | |
| | | | 4/26/2021 | 53.85 | -- | -- | 3,472.76 | | |
| 1/5/2022 | 53.93 | -- | -- | 3,472.68 | | | | | |
| 9/30/2024 | | | | Could Not Locate | | | | | |
| EB-06 | 3,556.63 | 75.00 | 5/20/2013 | 73.45 | -- | -- | 3,483.18 | | |
| | | | 10/14/2013 | 73.04 | Trace | Trace | 3,483.59 | | |
| | | | 5/14/2014 | 73.98 | -- | -- | 3,482.65 | | |
| | | | 10/13/2014 | 74.70 | -- | -- | 3,481.93 | | |
| | | | 4/20/2015 | 73.80 | -- | -- | 3,482.83 | | |
| | | | 12/7/2015 | 75.28 | -- | -- | 3,481.35 | | |
| | | | 4/11/2016 | 74.76 | -- | -- | 3,481.87 | | |
| | | | 12/12/2016 | 73.76 | -- | -- | 3,482.87 | | |
| | | | 4/17/2017 | 75.07 | -- | -- | 3,481.56 | | |
| | | | 10/24/2017 | 76.00 | -- | -- | 3,480.63 | | |
| | | | 12/8/2017 | | | | DRY | | |
| | | | 12/3/2018 | | | | WELL OBSTRUCTED | | |
| | | | EB-07 | 3,503.97 | 56.08 | 5/20/2013 | 53.92 | -- | -- |
| 10/15/2013 | 54.58 | -- | | | | -- | 3,449.39 | | |
| 5/14/2014 | DRY | -- | | | | -- | DRY | | |
| 10/13/2014 | 47.90 | -- | | | | -- | 3,456.07 | | |
| 4/20/2015 | 49.19 | -- | | | | -- | 3,454.78 | | |
| 12/7/2015 | 50.00 | -- | | | | -- | 3,453.97 | | |
| 4/11/2016 | 50.00 | -- | | | | -- | 3,453.97 | | |
| 12/12/2016 | 49.85 | -- | | | | -- | 3,454.12 | | |
| 4/17/2017 | 50.02 | -- | | | | -- | 3,453.95 | | |
| 10/24/2017 | 50.41 | -- | | | | -- | 3,453.56 | | |
| 12/8/2017 | 50.83 | -- | | | | -- | 3,453.14 | | |
| 12/5/2018 | 51.11 | -- | | | | -- | 3,452.86 | | |
| 4/23/2019 | 51.48 | -- | | | | -- | 3,452.49 | | |
| 12/9/2019 | | | | | | | DRY | | |
| 4/6/2020 | | | | | | | DRY | | |
| 9/21/2020 | | | | | | | DRY | | |
| 4/26/2021 | | | | | | | DRY | | |
| 1/4/2022 | | | | DRY | | | | | |
| 9/30/2024 | | | | Could Not Locate | | | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|----|----|----------|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | | | |
| EB-08 | 3,537.07 | 86.22 | 5/20/2013 | 73.60 | 71.20 | 2.40 | 3,465.15 | | | |
| | | | 10/14/2013 | 73.20 | 70.90 | 2.30 | 3,465.48 | | | |
| | | | 5/14/2014 | 74.90 | 72.55 | 2.35 | 3,463.82 | | | |
| | | | 10/13/2014 | 72.00 | 69.50 | 2.50 | 3,466.82 | | | |
| | | | 4/20/2015 | 71.70 | 70.00 | 1.70 | 3,466.56 | | | |
| | | | 12/7/2015 | 72.10 | 71.00 | 1.10 | 3,465.74 | | | |
| | | | 4/11/2016 | 72.70 | 71.61 | 1.09 | 3,465.13 | | | |
| | | | 12/12/2016 | 71.75 | 70.55 | 1.20 | 3,466.16 | | | |
| | | | 4/17/2017 | 72.60 | 71.48 | 1.12 | 3,465.25 | | | |
| | | | 10/24/2017 | 74.87 | 73.77 | 1.10 | 3,462.97 | | | |
| | | | 12/8/2017 | 73.40 | 73.39 | 0.01 | 3,463.68 | | | |
| | | | 3/13/2018 | 74.91 | 74.44 | 0.47 | 3,462.49 | | | |
| | | | 12/4/2018 | 74.35 | 73.50 | 0.85 | 3,463.32 | | | |
| | | | 4/24/2019 | 76.36 | 75.52 | 0.84 | 3,461.30 | | | |
| | | | 8/30/2019 | 78.00 | 76.86 | 1.14 | 3,459.87 | | | |
| | | | 12/10/2019 | 75.35 | 75.17 | 0.18 | 3,461.85 | | | |
| | | | 4/6/2020 | 74.73 | 74.59 | 0.14 | 3,462.44 | | | |
| | | | 9/21/2020 | 78.69 | 78.46 | 0.23 | 3,458.54 | | | |
| | | | 4/27/2021 | 79.97 | 78.85 | 1.12 | 3,457.88 | | | |
| | | | 1/5/2022 | 78.54 | 78.43 | 0.11 | 3,458.61 | | | |
| 9/30/2024 | Could Not Locate | | | | | | | | | |
| P-01 | 3,530.21 | 54.06 | 5/20/2013 | 50.87 | Trace | Trace | 3,479.34 | | | |
| | | | 10/14/2013 | 50.85 | -- | -- | 3,479.36 | | | |
| | | | 5/14/2014 | 50.95 | -- | -- | 3,479.26 | | | |
| | | | 10/13/2014 | 50.82 | -- | -- | 3,479.39 | | | |
| | | | 4/20/2015 | 50.93 | -- | -- | 3,479.28 | | | |
| | | | 12/7/2015 | 50.95 | Trace | Trace | 3,479.26 | | | |
| | | | 4/11/2016 | 50.89 | -- | -- | 3,479.32 | | | |
| | | | 12/12/2016 | 50.85 | -- | -- | 3,479.36 | | | |
| | | | 4/17/2017 | 51.02 | -- | -- | 3,479.19 | | | |
| | | | 10/24/2017 | 53.40 | -- | -- | 3,476.81 | | | |
| | | | 12/8/2017 | 50.94 | -- | -- | 3,479.27 | | | |
| | | | 12/5/2018 | 50.86 | -- | -- | 3,479.35 | | | |
| | | | 4/23/2019 | 50.85 | -- | -- | 3,479.36 | | | |
| | | | 12/10/2019 | 50.89 | -- | -- | 3,479.32 | | | |
| | | | 4/6/2020 | 50.88 | -- | -- | 3,479.33 | | | |
| | | | 9/21/2020 | 50.92 | -- | -- | 3,479.29 | | | |
| | | | 4/26/2021 | 50.88 | -- | -- | 3,479.33 | | | |
| | | | 1/5/2022 | 50.95 | -- | -- | 3,479.26 | | | |
| | | | 9/30/2024 | Could Not Locate | | | | | | |
| | | | P-02 | 3,544.73 | 27.45 | 5/20/2013 | 22.70 | -- | -- | 3,522.03 |
| 10/14/2013 | 20.92 | -- | | | | -- | 3,523.81 | | | |
| 5/14/2014 | 22.15 | -- | | | | -- | 3,522.58 | | | |
| 10/13/2014 | 18.80 | -- | | | | -- | 3,525.93 | | | |
| 4/20/2015 | 21.14 | -- | | | | -- | 3,523.59 | | | |
| 12/7/2015 | 20.55 | -- | | | | -- | 3,524.18 | | | |
| 4/11/2016 | 21.44 | -- | | | | -- | 3,523.29 | | | |
| 12/12/2016 | 21.06 | -- | | | | -- | 3,523.67 | | | |
| 4/17/2017 | 21.09 | -- | | | | -- | 3,523.64 | | | |
| 10/24/2017 | 21.58 | -- | | | | -- | 3,523.15 | | | |
| 12/8/2017 | 21.87 | -- | | | | -- | 3,522.86 | | | |
| 12/4/2018 | 21.70 | -- | | | | -- | 3,523.03 | | | |
| 4/24/2019 | 22.24 | -- | | | | -- | 3,522.49 | | | |
| 12/9/2019 | 20.65 | -- | | | | -- | 3,524.08 | | | |
| 4/6/2020 | 21.79 | -- | | | | -- | 3,522.94 | | | |
| 9/21/2020 | 22.28 | -- | | | | -- | 3,522.45 | | | |
| 4/26/2021 | 22.54 | -- | | | | -- | 3,522.19 | | | |
| 1/4/2022 | 21.51 | -- | | | | -- | 3,523.22 | | | |
| 9/30/2024 | 21.92 | -- | | | | -- | 3,522.81 | | | |



| TABLE 1 GROUNDWATER ELEVATION SUMMARY Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | |
|--|-------------------------------------|------------------------|------------|----------------------------------|--------------------------|----------------------|------------------------------------|--|
| Well Identification | Top of Casing Elevation (feet AMSL) | Total Depth (feet bgs) | Date | Depth to Groundwater (feet BTOC) | Depth to PSH (feet BTOC) | PSH Thickness (feet) | Groundwater Elevation (feet AMSL)* | |
| P-03 | 3,536.83 | 78.65 | 5/20/2013 | 72.72 | -- | -- | 3,464.11 | |
| | | | 10/14/2013 | 56.39 | -- | -- | 3,480.44 | |
| | | | 5/14/2014 | 73.91 | -- | -- | 3,462.92 | |
| | | | 10/13/2014 | 40.70 | -- | -- | 3,496.13 | |
| | | | 4/20/2015 | 56.65 | -- | -- | 3,480.18 | |
| | | | 12/7/2015 | 44.93 | -- | -- | 3,491.90 | |
| | | | 4/11/2016 | 52.22 | -- | -- | 3,484.61 | |
| | | | 12/12/2016 | 40.50 | -- | -- | 3,496.33 | |
| | | | 4/17/2017 | 69.50 | -- | -- | 3,467.33 | |
| | | | 10/24/2017 | 78.82 | -- | -- | 3,458.01 | |
| | | | 12/8/2017 | 75.03 | -- | -- | 3,461.80 | |
| | | | 12/4/2018 | 74.39 | -- | -- | 3,462.44 | |
| | | | 4/26/2019 | 74.36 | -- | -- | 3,462.47 | |
| | | | 12/10/2019 | 73.82 | -- | -- | 3,463.01 | |
| | | | 4/6/2020 | 74.45 | -- | -- | 3,462.38 | |
| | | | 9/21/2020 | 74.67 | -- | -- | 3,462.16 | |
| | | | 4/26/2021 | 74.79 | -- | -- | 3,462.04 | |
| 1/5/2022 | 66.26 | -- | -- | 3,470.57 | | | | |
| 9/30/2024 | Could Not Locate | | | | | | | |
| P-04 | 3,552.26 | 48.65 | 5/20/2013 | DRY | | | | |
| | | | 10/14/2013 | DRY | | | | |
| | | | 5/14/2014 | 56.80 | -- | -- | 3,495.46 | |
| | | | 10/13/2014 | 59.30 | -- | -- | 3,492.96 | |
| | | | 4/20/2015 | 60.40 | -- | -- | 3,491.86 | |
| | | | 12/7/2015 | DRY | | | | |
| | | | 4/11/2016 | DRY | | | | |
| | | | 12/12/2016 | DRY | | | | |
| | | | 4/17/2017 | DRY | | | | |
| | | | 10/24/2017 | DRY | | | | |
| | | | 12/8/2017 | DRY | | | | |
| | | | 3/13/2018 | DRY | | | | |
| | | | 12/4/2018 | DRY | | | | |
| | | | 4/24/2019 | DRY | | | | |
| | | | 12/10/2019 | DRY | | | | |
| | | | 4/6/2020 | DRY | | | | |
| | | | 9/21/2020 | DRY | | | | |
| 4/26/2021 | DRY | | | | | | | |
| 1/4/2022 | DRY | | | | | | | |
| 9/30/2024 | Could Not Locate | | | | | | | |
| P-05 | 3,507.48 | 47.35 | 5/20/2013 | 47.34 | -- | -- | 3,460.14 | |
| | | | 10/14/2013 | 47.30 | -- | -- | 3,460.18 | |
| | | | 5/14/2014 | 47.30 | -- | -- | 3,460.18 | |
| | | | 10/13/2014 | 47.30 | -- | -- | 3,460.18 | |
| | | | 4/20/2015 | 47.00 | -- | -- | 3,460.48 | |
| | | | 12/7/2015 | 47.14 | -- | -- | 3,460.34 | |
| | | | 4/11/2016 | 47.30 | -- | -- | 3,460.18 | |
| | | | 12/12/2016 | 47.35 | -- | -- | 3,460.13 | |
| | | | 4/17/2017 | 47.33 | -- | -- | 3,460.15 | |
| | | | 10/24/2017 | DRY | | | | |
| | | | 12/8/2017 | DRY | | | | |
| | | | 12/4/2018 | 47.34 | -- | -- | 3,460.14 | |
| | | | 4/24/2019 | DRY | | | | |
| | | | 12/10/2019 | DRY | | | | |
| | | | 4/6/2020 | DRY | | | | |
| | | | 9/21/2020 | DRY | | | | |
| | | | 4/26/2021 | DRY | | | | |
| 1/4/2022 | DRY | | | | | | | |
| 9/30/2024 | Could Not Locate | | | | | | | |
| AS-1 | -- | -- | 11/17/2017 | 62.44 | 62.40 | 0.04 | -- | |
| | | | 12/7/2017 | 63.66 | 63.55 | 0.11 | -- | |
| | | | 12/4/2018 | 61.13 | 59.28 | 1.85 | -- | |
| | | | 4/16/2020 | H ₂ S PRESENT IN WELL | | | | |
| | | | 9/22/2020 | H ₂ S PRESENT IN WELL | | | | |
| | | | 4/27/2021 | DRY | | | | |
| | | | 1/4/2022 | DRY | | | | |
| 9/30/2024 | 62.56 | 62.47 | 0.09 | -- | | | | |

Notes:

AMSL: Above mean sea level

bgs: Below ground surface

BTOC: Below top of casing

H₂S: Hydrogen sulfide gas

PSH: Phase separated hydrocarbons

--: Indicates no GWEL or PSH measured

* Groundwater corrected for PSH thickness assuming 0.70 specific gravity.

** Emulsion observed in well

*** Anomalous groundwater measurement, not used for elevation isocontours



TABLE 2
PSH THICKNESS OF SELECT MONITORING WELLS

Empire Abo Gas Plant
AKA Energy Group, LLC
Eddy County, New Mexico

| Date | AS-01 | EB-03 | EB-08 | MW-02-06 | MW-02-09 | MW-02-10 | MW-02-11 | MW-02-12 | MW-02-13 | MW-02-14 | MW-02-15 | MW-02-16 | MW-03 | MW-03-01 | MW-03-02 | MW-03-03 | MW-03-04 | MW-04 | MW-06 | MW-07 | MW-09 | MW-10 | MW-11 | MW-13 | MW-14 | MW-19 | MW-20 | MW-21 | MW-23 | |
|------------|-------|-------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|----------|----------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 02/12/2007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.94 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 02/13/2007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/26/2007 | -- | 0.31 | -- | -- | -- | -- | 0.40 | -- | -- | -- | -- | -- | -- | 0.01 | 0.13 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/27/2007 | -- | -- | -- | -- | 3.57 | >10.52 | -- | -- | 0.98 | 0.38 | -- | -- | -- | -- | -- | -- | 1.35 | -- | -- | -- | 0.37 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 06/18/2007 | -- | 0.14 | -- | -- | 0.17 | 5.64 | 1.25 | ** | 3.15 | 0.45 | -- | -- | 0.49 | -- | -- | 0.83 | 1.05 | 0.17 | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 09/17/2007 | -- | 0.35 | -- | -- | 3.06 | 6.28 | 1.20 | ** | 3.13 | 0.49 | -- | -- | 1.07 | -- | ** | 1.16 | * 0.07 | -- | -- | 0.49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/10/2007 | -- | 0.39 | -- | -- | 3.40 | 5.04 | 0.51 | ** | 3.10 | 0.66 | -- | -- | 1.18 | -- | -- | 0.91 | 1.96 | 0.19 | -- | ** | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/10/2008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/11/2008 | -- | 2.52 | -- | -- | 0.82 | 1.92 | 3.00 | ** | 2.21 | 0.48 | -- | -- | 2.64 | -- | -- | 0.97 | 2.37 | 0.91 | -- | 1.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 07/31/2008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25.42 | 18.88 | -- | -- | -- | -- | -- | -- | |
| 09/15/2008 | -- | 0.43 | -- | -- | 8.83 | 8.78 | 0.55 | ** | Sheen | 0.56 | -- | -- | 3.05 | 15.49 | ** | 0.01 | 0.79 | 5.09 | 13.39 | 0.11 | 0.23 | 0.65 | 19.27 | -- | 0.29 | -- | -- | -- | -- | |
| 03/09/2009 | -- | 0.94 | -- | -- | 3.89 | >8.30 | ** | ** | 3.17 | 0.28 | -- | -- | 2.67 | 10.69 | ** | Sheen | 0.82 | 4.65 | 7.34 | 0.30 | 0.06 | 16.86 | 14.86 | -- | 1.65 | -- | -- | -- | -- | |
| 07/13/2009 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11.16 | -- | -- | -- | -- | -- | Sheen | -- | -- | -- | -- | -- | -- | 1.19 | -- | -- | -- | |
| 07/14/2009 | -- | 1.67 | -- | -- | -- | >8.78 | -- | ** | -- | -- | -- | -- | -- | ** | 0.83 | 5.80 | -- | -- | 0.09 | 5.61 | 15.40 | -- | -- | -- | 5.35 | 17.29 | 0.20 | -- | -- | |
| 09/14/2009 | -- | 1.92 | -- | -- | 11.42 | 9.10 | 0.65 | 0.15 | 9.33 | -- | -- | -- | 3.00 | 11.10 | ** | 0.02 | 0.79 | 9.40 | 11.50 | * | 0.12 | 20.74 | 0.82 | -- | 0.75 | 7.45 | -- | 0.40 | 0.16 | |
| 03/29/2010 | -- | 3.02 | -- | 0.23 | 3.11 | 5.11 | 0.63 | 0.10 | 3.64 | 1.15 | -- | -- | 3.17 | 4.31 | 0.19 | 0.19 | 0.77 | 0.19 | 10.23 | 0.44 | 0.25 | 10.60 | 7.91 | -- | 0.01 | 4.10 | Sheen | 8.62 | 0.18 | |
| 09/13/2010 | -- | 0.64 | -- | 1.80 | 2.22 | >3.25 | 0.75 | 0.01 | 5.63 | 0.95 | -- | -- | 4.22 | 2.24 | 0.03 | 0.02 | 1.56 | 1.97 | 9.30 | 0.02 | ** | 8.46 | 4.83 | -- | 0.14 | 6.42 | 0.48 | 4.89 | -- | |
| 03/14/2011 | -- | -- | -- | 0.51 | -- | -- | 0.49 | -- | -- | -- | -- | -- | -- | 0.04 | 0.01 | -- | 1.56 | 1.73 | 6.67 | -- | 0.22 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/15/2011 | -- | 0.65 | 0.02 | -- | -- | -- | -- | -- | 3.95 | 0.62 | -- | -- | 1.93 | 1.88 | -- | -- | 1.56 | 1.73 | 6.67 | -- | -- | 7.92 | 4.14 | 0.01 | 0.15 | 7.5 | 0.50 | 2.29 | -- | |
| 03/16/2011 | -- | -- | -- | 0.42 | -- | -- | -- | -- | 5.27 | -- | -- | -- | 2.37 | 1.60 | 0.04 | -- | 1.53 | 2.92 | 10.07 | -- | 0.62 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 05/30/2012 | -- | -- | 2.45 | 0.25 | 2.95 | 7.38 | 0.11 | -- | 6.33 | 0.62 | -- | -- | 0.38 | 1.68 | 0.10 | -- | 0.52 | 0.45 | 8.87 | -- | 0.32 | 8.15 | 2.50 | -- | 4.14 | 0.52 | 1.07 | -- | -- | |
| 09/24/2012 | -- | 0.15 | 4.11 | 0.13 | 3.31 | 7.27 | 0.08 | 0.02 | 4.13 | 0.85 | -- | -- | 0.21 | 1.18 | 0.63 | 0.02 | 0.08 | 0.09 | 6.86 | -- | 0.37 | 5.48 | -- | -- | -- | -- | -- | -- | -- | |
| 09/25/2012 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.17 | -- | -- | -- | 3.02 | 0.50 | 1.09 | -- | -- |
| 05/20/2013 | -- | 0.04 | 2.40 | 0.05 | 4.45 | >10.00 | 0.12 | -- | 3.62 | 0.88 | -- | -- | -- | 0.35 | -- | 0.30 | 0.07 | 3.82 | -- | -- | 6.05 | -- | -- | 0.02 | 4.05 | 0.03 | 1.00 | -- | -- | |
| 10/14/2013 | -- | -- | 2.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 10/15/2013 | -- | -- | 0.45 | 3.15 | 6.30 | 0.05 | -- | -- | 3.58 | 0.70 | -- | -- | -- | 0.60 | 3.20 | -- | 0.40 | 0.20 | 5.12 | -- | 0.30 | 4.45 | -- | -- | 4.1 | 0.05 | 1.20 | -- | -- | |
| 05/14/2014 | -- | 0.04 | 2.35 | 0.35 | 4.55 | 4.55 | 0.05 | -- | 1.47 | 0.60 | -- | -- | 0.02 | 1.50 | 0.60 | -- | 0.90 | 0.50 | 2.30 | -- | 0.82 | 1.80 | 0.68 | 7.54 | 0.05 | 10.55 | 0.50 | 1.27 | -- | |
| 10/13/2014 | -- | -- | 2.50 | -- | -- | -- | -- | -- | 5.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.00 | -- | -- | -- | -- | -- | |
| 10/14/2014 | -- | -- | 0.45 | 4.08 | 8.18 | 0.06 | -- | -- | 5.85 | 1.90 | -- | -- | -- | 0.08 | 0.80 | -- | 0.45 | 0.25 | 4.10 | -- | 2.05 | 3.70 | 0.20 | -- | -- | 3.6 | -- | 1.12 | -- | |
| 04/20/2015 | -- | -- | 1.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 04/21/2015 | -- | -- | 0.30 | 3.88 | 5.65 | -- | -- | -- | 1.80 | 0.75 | -- | -- | -- | 0.55 | 0.20 | -- | 0.20 | 0.65 | 2.10 | -- | 2.10 | 2.90 | 0.38 | -- | -- | 6.45 | -- | 1.05 | -- | |
| 12/04/2015 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Sheen | -- | -- | -- | -- | -- | |
| 12/07/2015 | -- | 0.80 | 1.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.64 | -- | 3.1 | Sheen | 1.00 | -- | -- | |
| 12/08/2015 | -- | -- | -- | 2.20 | 5.85 | -- | -- | -- | 2.15 | 0.35 | -- | -- | 1.34 | 0.45 | -- | 0.25 | 0.65 | 3.40 | -- | 0.75 | 4.30 | 0.58 | -- | -- | -- | -- | -- | -- | -- | |
| 04/11/2016 | -- | 1.1 | 1.09 | -- | 1.46 | >5.43 | -- | -- | 2.35 | 0.42 | -- | -- | 0.22 | 0.35 | -- | 0.35 | 0.78 | 2.93 | -- | 1.19 | 7.81 | 0.03 | -- | -- | 2.42 | -- | 1.12 | -- | -- | |
| 12/12/2016 | -- | 0.40 | 1.20 | 0.01 | -- | >4.00 | -- | -- | -- | -- | 0.74 | -- | -- | 0.68 | -- | 0.65 | 0.79 | -- | -- | -- | -- | -- | -- | -- | 6.5 | -- | 1.61 | -- | -- | |
| 12/13/2016 | -- | -- | -- | 2.95 | -- | -- | -- | -- | 1.72 | 0.59 | 0.10 | -- | -- | 0.10 | -- | -- | 2.53 | -- | 1.46 | 2.21 | Sheen | -- | -- | 2.22 | -- | -- | -- | -- | -- | |
| 04/17/2017 | -- | 0.50 | 1.12 | 0.01 | 2.80 | >2.92 | -- | -- | 1.85 | 0.50 | 0.28 | 1.63 | -- | 0.10 | 0.98 | -- | 2.02 | 0.88 | 2.45 | -- | 1.42 | 2.09 | 0.15 | Dry | 0.16 | 2.41 | -- | 1.18 | -- | |
| 10/24/2017 | -- | 0.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | Dry | 0.11 | -- | -- | -- | -- | -- | |
| 10/25/2017 | -- | -- | -- | 0.48 | 2.98 | >1.55 | -- | -- | 0.76 | 0.48 | 0.20 | 1.74 | -- | 0.25 | 0.24 | -- | 1.68 | 0.77 | 1.24 | -- | 1.79 | 1.93 | -- | -- | 1.45 | -- | 1.60 | -- | -- | |
| 11/17/2017 | 0.04 | 0.13 | -- | 0.22 | 1.35 | -- | -- | -- | 0.90 | 0.05 | 0.05 | 0.02 | -- | 0.03 | -- | Sheen | 0.06 | 0.13 | -- | 0.84 | 0.23 | -- | -- | -- | 0.07 | -- | -- | -- | -- | |
| 12/08/2017 | 0.11 | 0.05 | 0.01 | -- | 0.29 | >1.95 | -- | -- | 0.07 | 0.03 | 0.31 | 0.01 | -- | 0.07 | -- | -- | Dry | 0.01 | -- | 1.54 | -- | -- | Dry | 0.12 | 0.13 | -- | 0.01 | -- | -- | |
| 03/13/2018 | -- | 0.38 | 0.47 | 0.41 | 2.77 | 0.06 | 0.30 | -- | 1.20 | 0.14 | 3.07 | 0.24 | 0.41 | 1.53 | -- | -- | Dry | 1.33 | -- | 1.60 | 0.68 | -- | -- | 0.22 | 0.29 | -- | 2.80 | -- | -- | |
| 03/19/2018 | -- | -- | -- | -- | 0.86 | 0.07 | 0.52 | -- | 0.52 | 0.08 | 2.60 | 0.20 | -- | 0.27 | -- | -- | Dry | 1.39 | -- | 1.68 | 0.24 | -- | Dry | -- | 0.21 | -- | 0.35 | -- | -- | |
| 08/05/2018 | 5.29 | -- | -- | -- | -- | -- | -- | -- | -- | 0.78 | -- | -- | -- | 1.65 | -- | -- | -- | -- | -- | 3.60 | 2.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/07/2018 | -- | -- | -- | 0.30 | -- | -- | -- | -- | 0.30 | -- | 1.70 | 0.30 | -- | -- | -- | -- | -- | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 08/23/2018 | 8.49 | 0.1 | -- | 0.62 | 0.66 | -- | -- | -- | 0.57 | 2.15 | 0.15 | -- | 1.19 | 0.03 | -- | -- | 1.84 | -- | * | 0.95 | * | -- | 0.39 | 0.14 | -- | -- | 6.10 | -- | -- | |
| 08/29/2018 | 5.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 09/05/2018 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/13/2018 | 2.79 | -- | -- | -- | -- | -- | -- | -- | 0.47 | -- | 2.25 | -- | -- | -- | -- | -- | -- | 1.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/18/2018 | 1.42 | -- | -- | -- | 0.59 | -- | -- | -- | 0.45 | 0.00 | 2.34 | -- | -- | -- | -- | -- | -- | 1.25 | -- | 0.23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/27/2018 | 1.4 | -- | -- | -- | 0.00 | -- | -- | -- | 0.32 | 0.00 | 2.95 | -- | -- | -- | -- | -- | -- | 1.44 | -- | 0.22 | 0.02 | * | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/03/2018 | 1.45 | -- | -- | -- | 0.32 | -- | -- | -- | 0.34 | 0.17 | 3.10 | -- | -- | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/09/2018 | 1.07 | -- | -- | -- | 0.69 | -- | -- | -- | 0.42 | 0.13 | 3.22 | -- | -- | -- | -- | -- | -- | 1.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/16/2018 | 2.69 | -- | -- | -- | 0.00 | -- | -- | -- | 0.30 | 0.79 | 2.68 | -- | -- | -- | -- | -- | -- | 1.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/01/2018 | 7.98 | -- | -- | -- | 0.33 | -- | -- | -- | 0.55 | 1.38 | 3.41 | -- | -- | -- | -- | -- | -- | 1.16 | -- | -- | 3.09 | * | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/02/2018 | -- | -- | -- | -- | -- | -- | -- | -- | 0.18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.09 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/08/2018 | -- | -- | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | |



TABLE 2
PSH THICKNESS OF SELECT MONITORING WELLS
 Empire Ace Gas Plant
 AKA Energy Group, LLC
 Eddy County, New Mexico

| Date | AS-01 | EB-03 | EB-08 | MW-02-06 | MW-02-09 | MW-02-10 | MW-02-11 | MW-02-12 | MW-02-13 | MW-02-14 | MW-02-15 | MW-02-16 | MW-03 | MW-03-01 | MW-03-02 | MW-03-03 | MW-03-04 | MW-04 | MW-06 | MW-07 | MW-09 | MW-10 | MW-11 | MW-13 | MW-14 | MW-19 | MW-20 | MW-21 | MW-23 | |
|------------|-------|-------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|----------|----------|----------|----------|--------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|------|
| 06/21/2019 | -- | -- | -- | -- | 0.4 | -- | -- | -- | 1.85 | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | 0.80 | -- | -- | Dry | -- | -- | -- | 0.1 | -- | -- | -- | |
| 06/30/2019 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.20 | 0.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.19 | Dry | -- | -- | -- | -- | -- | -- | |
| 06/30/2019 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 07/24/2019 | -- | 0.49 | 0.98 | 1.00 | 1.17 | Dry | Dry | -- | 1.62 | 1.17 | 0.48 | 0.26 | 0.2 | -- | -- | -- | -- | 0.35 | 0.93 | -- | -- | 0.09 | Dry | -- | -- | 2.39 | -- | -- | -- | |
| 08/30/2019 | -- | 0.49 | 1.14 | 1.08 | 0.25 | -- | -- | -- | 0.21 | 0.05 | 0.38 | 0.78 | -- | -- | -- | -- | 0.22 | -- | 0.11 | -- | -- | -- | -- | -- | 0.26 | 0.26 | -- | 0.30 | 0.02 | |
| 10/07/2019 | -- | -- | 0.46 | -- | 0.7 | -- | -- | -- | 0.03 | 0.00 | -- | Sheen | -- | Sheen | -- | -- | -- | 0.19 | -- | 0.01 | Sheen | 0.01 | -- | -- | 0.09 | -- | -- | 0.92 | -- | |
| 11/07/2019 | -- | 0.02 | 0.01 | -- | 0.25 | -- | -- | -- | 0.36 | 0.01 | 0.23 | 0.01 | 0.01 | -- | 0.62 | -- | -- | -- | 0.01 | -- | -- | 0.01 | Dry | -- | 6.02 | -- | -- | 7.38 | 0.01 | |
| 11/22/2019 | -- | 0.01 | 0.01 | 0.44 | 0.13 | -- | -- | -- | 0.01 | 0.02 | 0.01 | 0.23 | 0.01 | 3.37 | -- | 0.01 | -- | -- | 0.02 | -- | 0.01 | 0.99 | ** | -- | 0.16 | -- | -- | 7.83 | 0.12 | |
| 12/02/2019 | -- | Sheen | 0.53 | -- | -- | -- | -- | -- | 0.45 | -- | -- | -- | -- | -- | -- | -- | -- | 0.22 | -- | -- | -- | Dry | -- | Dry | -- | 0.01 | -- | -- | 8.25 | 0.01 |
| 12/09/2019 | -- | 0.08 | 0.18 | -- | 0.25 | Dry | 1.46 | 0.03 | 0.01 | 0.01 | 0.92 | -- | -- | 0.40 | 0.40 | -- | -- | 0.26 | 0.01 | -- | -- | Dry | -- | Dry | 0.2 | -- | -- | 0.27 | 0.10 | |
| 01/03/2020 | -- | 0.01 | 0.28 | 0.01 | 0.24 | ** | 0.13 | -- | 0.04 | Sheen | 0.16 | Sheen | Sheen | Sheen | 0.34 | -- | -- | 0.26 | 0.11 | -- | Sheen | Sheen | Dry | -- | 0.08 | Sheen | Sheen | 0.64 | 0.1 | |
| 02/11/2020 | -- | Sheen | Sheen | -- | 0.17 | 0.81 | Dry | -- | -- | 0.09 | Sheen | 0.21 | Sheen | Sheen | Sheen | 0.01 | -- | Dry | 0.18 | -- | Sheen | 0.02 | -- | -- | 0.03 | -- | Sheen | 0.22 | 0.07 | |
| 03/19/2020 | -- | Sheen | 0.2 | Sheen | 0.21 | -- | -- | -- | 0.18 | Sheen | 0.22 | Sheen | -- | Sheen | -- | Sheen | Sheen | Dry | 0.97 | -- | --- | --- | -- | -- | 0.11 | -- | -- | 0.91 | 0.15 | |
| 04/16/2020 | -- | Sheen | 0.14 | -- | 0.11 | 0.46 | Dry | -- | -- | -- | 0.23 | -- | -- | 0.04 | -- | Sheen | Sheen | Dry | 0.13 | -- | --- | --- | Dry | -- | 0.74 | -- | -- | -- | Sheen | |
| 04/17/2020 | -- | -- | -- | -- | -- | -- | -- | 0.07 | 0.08 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 | -- |
| 05/01/2020 | -- | -- | 0.2 | -- | 0.14 | 0.81 | -- | 0.05 | 0.1 | Sheen | 0.12 | -- | -- | Sheen | -- | 0.04 | -- | Dry | 0.10 | -- | -- | --- | Dry | -- | 0.03 | -- | -- | 0.56 | 0.01 | |
| 05/29/2020 | -- | 0.06 | 0.06 | -- | 0.33 | 0.21 | -- | 0.22 | 0.06 | -- | 0.08 | -- | -- | -- | 0.01 | -- | --- | --- | --- | --- | --- | --- | --- | --- | 0.33 | -- | -- | 0.1 | 0.09 | |
| 06/05/2020 | 0.57 | Sheen | 0.03 | -- | 0.19 | 0.29 | -- | 0.21 | 0.02 | -- | Sheen | -- | 0.01 | Sheen | -- | Sheen | -- | Dry | 0.02 | -- | -- | 0.01 | Dry | Dry | 0.01 | -- | -- | 0.13 | 0.06 | |
| 06/12/2020 | 0.46 | 0.04 | 0.09 | -- | 0.21 | 0.34 | Dry | 0.08 | 0.01 | Sheen | 0.13 | -- | -- | 0.01 | -- | Sheen | -- | Dry | 0.04 | -- | -- | 0.02 | Sheen | Dry | 0.01 | 0.02 | -- | 0.24 | 0.09 | |
| 06/26/2020 | 0.17 | -- | 0.06 | -- | 0.09 | 0.05 | -- | Sheen | 0.07 | Sheen | 0.08 | -- | 0.04 | -- | Sheen | Sheen | -- | Sludge | 0.01 | -- | -- | 0.02 | Sludge | Dry | 0.01 | 0.02 | -- | 0.07 | 0.02 | |
| 07/10/2020 | 0.08 | Sheen | 0.02 | -- | 0.14 | 0.11 | Sludge | Sheen | 0.13 | Sheen | 0.11 | -- | 0.04 | -- | -- | 0.01 | -- | Sludge | 0.04 | -- | Sheen | 0.05 | Dry | Sheen | 0.02 | -- | -- | 0.17 | Sheen | |
| 07/17/2020 | Sheen | Sheen | Sheen | -- | 0.11 | 0.13 | Sludge | 0.06 | 0.13 | Sheen | 0.07 | -- | 0.03 | -- | Sheen | -- | --- | --- | --- | --- | --- | --- | --- | --- | 0.05 | 0.04 | -- | 0.14 | 0.02 | |
| 07/24/2020 | 0.02 | 0.05 | -- | -- | 0.14 | 0.17 | Dry | 0.04 | 0.13 | Sheen | 0.13 | -- | 0.06 | -- | 0.04 | -- | --- | --- | --- | --- | --- | --- | --- | --- | 0.02 | 0.01 | -- | 0.26 | 0.03 | |
| 07/31/2020 | 0.05 | -- | 0.05 | 0.01 | 0.16 | 0.19 | Sludge | 0.04 | 0.13 | -- | 0.14 | -- | 0.04 | -- | -- | 0.05 | -- | Sludge | 0.20 | -- | -- | 0.06 | Sludge | Dry | 0.02 | 0.02 | -- | 0.30 | 0.02 | |
| 08/07/2020 | 0.05 | -- | 0.01 | -- | 0.11 | 0.24 | Sludge | 0.08 | 0.07 | Sheen | 0.11 | -- | 0.04 | -- | 0.01 | 0.08 | -- | Dry | 0.21 | -- | -- | 0.13 | Dry | Dry | 0.01 | 0.01 | -- | 0.15 | 0.03 | |
| 08/14/2020 | 0.02 | -- | 0.08 | -- | 0.16 | 0.29 | Dry | 0.09 | 0.12 | Sheen | 0.09 | -- | 0.03 | -- | -- | 0.10 | -- | Sludge | 0.22 | -- | -- | 0.10 | Sludge | Dry | 0.02 | Sheen | -- | 0.07 | 0.04 | |
| 08/28/2020 | Sheen | Sheen | 0.12 | -- | 0.18 | 0.32 | Sludge | 0.14 | 0.11 | Sheen | 0.15 | -- | 0.05 | -- | -- | 0.18 | -- | Dry | 0.14 | -- | Sheen | 0.20 | Dry | Dry | 0.03 | 0.04 | -- | 0.15 | 0.06 | |
| 09/11/2020 | Sheen | Sheen | 0.11 | -- | 0.18 | 0.33 | Dry | 0.17 | 0.1 | Sheen | 0.14 | -- | 0.03 | -- | -- | 0.15 | -- | --- | --- | --- | --- | --- | --- | --- | 0.02 | 0.02 | -- | 0.45 | 0.02 | |
| 09/18/2020 | Sheen | Sheen | 0.12 | -- | 0.18 | 0.43 | Dry | 0.19 | 0.02 | 0.01 | 0.13 | -- | 0.02 | -- | -- | 0.18 | -- | Dry | 0.11 | -- | -- | 0.17 | Dry | Dry | 0.02 | --- | -- | 0.59 | 0.03 | |
| 09/21/2020 | -- | 0.02 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/22/2020 | 2.25 | -- | -- | -- | 0.25 | 0.02 | Dry | 0.22 | 0.08 | -- | 0.2 | Sheen | Sheen | -- | -- | 0.17 | -- | Dry | 0.14 | -- | -- | 0.19 | Dry | Dry | 0.01 | -- | -- | 0.82 | 0.1 | |
| 10/02/2020 | Sheen | 0.06 | 0.1 | -- | 0.19 | Dry | Dry | 0.21 | 0.07 | 0.01 | 0.14 | -- | 0.02 | -- | Sheen | 0.22 | -- | Dry | 0.08 | -- | -- | 0.16 | Dry | Dry | 0.02 | 0.02 | -- | 0.84 | 0.01 | |
| 10/23/2020 | Dry | 0.05 | 0.25 | -- | 0.08 | 0.10 | Sludge | 0.01 | 0.06 | 0.02 | 0.17 | -- | 0.31 | -- | Sheen | 0.07 | -- | Dry | -- | -- | -- | 0.01 | Dry | Dry | 0.01 | -- | -- | 0.07 | 0.05 | |
| 11/06/2020 | Sheen | 0.04 | 0.21 | -- | 0.01 | 0.15 | Sludge | 0.02 | -- | 0.02 | 0.19 | -- | 0.29 | -- | Sheen | 0.05 | -- | Dry | 0.01 | -- | -- | 0.02 | Dry | Dry | 0.01 | 0.01 | -- | 0.11 | Sheen | |
| 11/20/2020 | Dry | 0.08 | 0.33 | -- | 0.09 | Dry | Sludge | 0.03 | -- | 0.02 | 0.18 | -- | 0.21 | -- | 0.01 | 0.05 | -- | Sludge | 0.01 | -- | -- | 0.05 | Dry | Dry | 0.03 | 0.01 | -- | 0.28 | 0.05 | |
| 12/17/2020 | Dry | 0.1 | 0.24 | -- | 0.06 | Dry | Sludge | 0.05 | 0.04 | 0.01 | 0.1 | -- | 0.13 | -- | Sheen | 0.06 | -- | Dry | -- | -- | -- | 0.02 | Dry | Dry | 0.11 | Sheen | -- | 0.02 | 0.97 | |
| 01/08/2021 | Dry | 0.15 | 0.39 | -- | 0.01 | Dry | Dry | 0.02 | -- | 0.29 | 0.12 | -- | 0.09 | -- | 0.01 | 0.09 | -- | Dry | 0.01 | -- | -- | 0.03 | Dry | Dry | Sheen | Sheen | -- | 0.23 | 0.01 | |
| 01/22/2021 | Dry | 0.12 | 0.24 | -- | 0.09 | Dry | Dry | 0.01 | 0.01 | 0.01 | 0.14 | -- | 0.11 | -- | 0.01 | 0.16 | -- | -- | 0.01 | -- | -- | 0.03 | Dry | Dry | 0.03 | 0.01 | -- | 0.31 | Sheen | |
| 02/22/2021 | Dry | 0.22 | 0.15 | -- | 0.12 | Dry | Dry | 0.03 | -- | 0.01 | 0.21 | -- | 0.03 | -- | 0.01 | 0.31 | -- | -- | 0.02 | -- | -- | 0.01 | Dry | Dry | 0.03 | 0.02 | -- | 0.05 | 0.02 | |
| 03/08/2021 | Dry | 0.23 | 0.15 | -- | 0.13 | Dry | Dry | 0.01 | 0.01 | 0.01 | 0.23 | -- | 0.15 | -- | 0.01 | 0.31 | -- | -- | 0.01 | -- | -- | 0.02 | Dry | Dry | 0.05 | 0.02 | -- | 0.01 | 0.01 | |
| 03/19/2021 | Dry | 0.28 | 0.21 | -- | 0.11 | Dry | Dry | 0.01 | -- | 0.02 | 0.26 | -- | 0.02 | -- | 0.02 | 0.30 | -- | -- | 0.01 | -- | -- | 0.03 | Dry | Dry | 0.03 | 0.02 | -- | 0.07 | 0.01 | |
| 04/19/2021 | Dry | 0.25 | 0.02 | -- | 0.16 | Dry | Dry | 0.04 | -- | 0.03 | 0.32 | -- | 0.11 | -- | 0.02 | 0.36 | -- | Dry | 0.03 | -- | -- | 0.04 | Dry | Dry | 0.07 | 0.07 | -- | 0.24 | 0.03 | |
| 04/27/2021 | Dry | 0.25 | 0.12 | -- | 0.13 | Dry | Dry | 0.06 | 0.01 | 0.05 | 0.33 | Sheen | 0.16 | -- | 0.01 | 0.46 | -- | Dry | 0.02 | -- | -- | -- | Dry | Dry | 0.06 | 0.02 | -- | 0.28 | 0.08 | |
| 05/27/2021 | Dry | 0.32 | 0.20 | -- | 0.19 | Dry | Dry | 0.17 | -- | 0.25 | 0.39 | Sheen | 0.17 | -- | 1.02 | 0.54 | -- | Dry | 0.03 | -- | 0.02 | 0.01 | Dry | Dry | 0.07 | 0.06 | -- | 0.14 | -- | |
| 07/23/2021 | Dry | -- | 0.06 | -- | 0.28 | Dry | Dry | 0.37 | 0.02 | -- | 0.55 | -- | 0.11 | -- | 0.00 | 0.12 | -- | -- | 0.47 | -- | -- | 0.03 | Dry | Dry | 1.03 | 0.02 | -- | 4.73 | 0.00 | |
| 09/29/2021 | 0.00 | -- | 0.00 | -- | 0.41 | Dry | Dry | 0.08 | 0.01 | -- | 0.36 | 0.04 | 0.07 | Dry | 0.36 | -- | -- | 0.24 | 0.25 | -- | -- | 0.21 | Dry | Dry | 0.35 | -- | -- | 6.56 | 0.01 | |
| 01/4/2022 | Dry | -- | 0.11 | -- | 0.00 | Dry | Dry | 7.02 | 0.07 | -- | 1.09 | -- | 0.07 | -- | 0.68 | -- | -- | -- | 0.64 | -- | -- | 0.39 | Dry | Dry | 7.99 | -- | -- | 5.18 | 0.02 | |
| 01/27/2022 | Dry | -- | 0.41 | -- | 0.46 | Dry | Dry | 0.27 | 0.06 | -- | 0.15 | -- | 0.08 | -- | 0.63 | -- | -- | -- | 0.43 | -- | -- | 0.33 | Dry | Dry | 0.22 | -- | -- | 0.56 | 0.04 | |
| 03/10/2022 | Dry | -- | 0.21 | -- | 0.38 | Dry | Dry | 1.22 | 0.13 | -- | -- | 0.27 | 0.08 | -- | 0.71 | -- | -- | -- | 0.02 | -- | -- | 0.20 | Dry | Dry | 0.21 | -- | -- | 0.58 | 0.01 | |
| 06/13/2022 | Dry | -- | 0.60 | Dry | **0.42 | Dry | Dry | 2.12 | -- | -- | 0.77 | -- | 0.11 | -- | 0.73 | 0.39 | -- | Dry | -- | -- | -- | -- | Dry | Dry | 0.41 | -- | -- | 2.75 | -- | |
| 09/30/2024 | 0.09 | CNL | CNL | -- | 0.38 | Dry | Dry | 5.26 | 0.01 | 0.26 | 1.32 | 1.07 | -- | -- | 0.92 | 0.57 | -- | Dry | 0.03 | -- | 0.10 | 0.04 | Dry | CNL | CNL | -- | -- | 4.22 | -- | |

Notes:
 PSH: Phase separated hydrocarbons
 -: No reading
 -: Extraction
 **: Emulsion
 ***: Hydrogen sulfide (H₂S) present - no reading
 ****: Well inaccessible - other remediation
 CNL: Could not locate



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|----------------------------------|--|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| MW-02 | 5/22/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/17/2013 | 0.0057 | <0.002 | <0.002 | <0.003 |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/15/2014 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 4/23/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/13/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/14/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/18/2017 | 0.0038 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/25/2019 | <0.0008 | <0.00200 | <0.00200 | <0.00200 |
| | 12/11/2019 | 0.0016 | <0.00600 | <0.00600 | <0.00600 |
| | 4/7/2020 | Insufficient Water for Sample Collection | | | |
| | 9/23/2020 | 0.0022 | 0.000417 | <0.000600 | <0.00030 |
| 4/28/2021 | <0.000300 | <0.000300 | <0.000600 | <0.00030 | |
| 1/5/2022 | 0.0008 | 0.00052 | <0.000600 | <0.00030 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |
| MW-03 | 5/23/2013 | 1.30 | 0.00501 | 0.318 | 0.271 |
| | 10/16/2013 | 2.42 | <0.0200 | 0.0823 | 0.158 |
| | 5/14/2014 | PSH Present, No Sample Collected | | | |
| | 10/15/2014 | 2.87 | <0.04 | 0.156 | 0.199 |
| | 4/22/2015 | 2.52 | <0.006 | 0.273 | 0.296 |
| | 12/9/2015 | 2.12 | <0.120 | 0.19 | 0.238 |
| | 4/13/2016 | 1.90 | 0.00332 | 0.191 | 0.286 |
| | 12/13/2016 | 4.80 | <0.120 | 0.196 | 0.25 |
| | 4/18/2017 | 5.28 | <0.120 | 0.208 | 0.246 |
| | 10/25/2017 | 4.74 | <0.100 | 0.253 | 0.261 |
| | 3/20/2018 | -- | -- | -- | -- |
| | 12/6/2018 | 1.11 | <0.300 | <0.300 | 0.181 |
| | 4/25/2019 | 1.12 | <0.100 | <0.100 | 0.184 |
| | 12/11/2019 | 0.562 | <0.300 | <0.300 | <0.300 |
| | 4/8/2020 | 0.0569 | <0.0100 | <0.00344 | 0.0204 |
| | 9/23/2020 | PSH Present, No Sample Collected | | | |
| 4/28/2021 | PSH Present, No Sample Collected | | | | |
| 1/5/2022 | PSH Present, No Sample Collected | | | | |
| 10/1/2024 | 0.511 | 0.00304 | 0.000454 | 0.0102 | |
| MW-08 | 5/22/2013 | 0.00373 | 0.00218 | <0.002 | <0.003 |
| | 10/16/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 5/14/2014 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/15/2014 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 4/23/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/13/2016 | 0.00323 | <0.006 | <0.006 | <0.009 |
| | 12/14/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/18/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/25/2019 | <0.00800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/10/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/7/2020 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 9/23/2020 | 0.0011 | <0.000600 | <0.000300 | <0.000300 |
| 4/28/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/4/2022 | 0.000880 | <0.000600 | 0.000806 | 0.000783 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|-------------|--|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| MW-12 | 5/22/2013 | 0.0495 | <0.002 | <0.002 | <0.003 |
| | 10/16/2013 | 1.48 | <0.002 | 0.0385 | 0.0307 |
| | 5/14/2014 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/15/2014 | 1.80 | <0.2 | <0.2 | <0.3 |
| | 4/22/2015 | 0.00162 | <0.006 | <0.006 | <0.009 |
| | 12/9/2015 | 0.0122 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/14/2016 | 0.0014 | <0.00600 | <0.00600 | <0.00600 |
| | 4/18/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/26/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/10/2019 | 0.0308 | <0.00600 | 0.0427 | 0.0242 |
| | 4/8/2020 | 0.000563 | <0.00200 | 0.000649 | <0.00100 |
| 9/23/2020 | 0.000332 | <0.000600 | <0.000300 | <0.000300 | |
| 4/28/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/5/2022 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |
| MW-15 | 5/21/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/15/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/14/2014 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/21/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/13/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | 0.00141 | 0.00813 | <0.00600 | <0.00600 |
| | 10/26/2017 | 0.00679 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | 0.0014 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/25/2019 | No Sample Collected | | | |
| | 12/10/2019 | No Sample Collected | | | |
| | 4/7/2020 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| 9/22/2020 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 4/27/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/4/2022 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |
| MW-17 | 5/21/2013 | 0.0427 | <0.002 | <0.002 | <0.003 |
| | 10/15/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/14/2014 | <0.002 | <0.006 | <0.006 | 0.0248 |
| | 4/21/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/13/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | 0.00544 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00400 | <0.0120 | <0.0120 | <0.0120 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/25/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/10/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/7/2020 | <0.00100 | <0.00200 | 0.000318 | <0.00100 |
| 9/22/2020 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 4/27/2021 | <0.000300 | <0.000600 | 0.000389 | <0.000300 | |
| 1/4/2022 | 0.000859 | 0.00129 | 0.000971 | 0.000358 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|--|----------------------------------|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| MW-18 | 5/20/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/15/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 5/13/2014 | <0.002 | <0.002 | <0.002 | <0.003 |
| | 10/14/2014 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/21/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/14/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/21/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/26/2019 | Missed Sample | | | |
| | 12/10/2019 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/7/2020 | <0.00100 | <0.00200 | <0.00100 | <0.00200 |
| 9/22/2020 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 4/27/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/4/2022 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 10/1/2024 | Insufficient Water for Sample Collection | | | | |
| MW-20 | 5/20/2013 | PSH Present, No Sample Collected | | | |
| | 10/15/2013 | PSH Present, No Sample Collected | | | |
| | 5/14/2014 | PSH Present, No Sample Collected | | | |
| | 10/15/2014 | 2.84 | <0.04 | 0.104 | <0.06 |
| | 4/22/2015 | 0.665 | <0.150 | <0.150 | <0.225 |
| | 12/8/2015 | 0.556 | <0.150 | <0.150 | <0.225 |
| | 4/12/2016 | 0.471 | 0.0247 | 0.0384 | <0.09 |
| | 12/14/2016 | 0.521 | 0.0186 | 0.0248 | 0.0118 |
| | 4/18/2017 | 0.152 | 0.00686 | 0.0162 | 0.0121 |
| | 10/25/2017 | 0.0349 | <0.00400 | 0.00172 | 0.00232 |
| | 3/20/2018 | 0.00863 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | 0.00163 | <0.00600 | <0.00600 | <0.00600 |
| | 4/26/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/11/2019 | 0.0252 | <0.00600 | 0.0185 | 0.0106 |
| | 4/8/2020 | 0.00674 | <0.00200 | 0.00215 | 0.000982 |
| 9/23/2020 | 0.00063 | <0.000600 | <0.000300 | <0.000300 | |
| 4/28/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/5/2022 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 10/1/2024 | Insufficient Water for Sample Collection | | | | |
| MW-22 | 5/23/2013 | 10.2 | <0.002 | <0.002 | <0.003 |
| | 10/16/2013 | 5.48 | <0.002 | <0.002 | <0.003 |
| | 5/15/2014 | 5.21 | <0.200 | <0.200 | <0.300 |
| | 10/15/2014 | 8.81 | <0.2 | 0.27 | <0.2 |
| | 4/22/2015 | 4.48 | <1.2 | <1.2 | <1.8 |
| | 12/9/2015 | 3.54 | <1.2 | <1.2 | <1.2 |
| | 4/13/2016 | 17.7 | <0.6 | 0.36 | <0.9 |
| | 12/13/2016 | 5.88 | <0.600 | <0.600 | <0.600 |
| | 4/18/2017 | 2.29 | <0.600 | 0.355 | <0.600 |
| | 10/25/2017 | 2.56 | <0.0400 | 0.269 | 0.112 |
| | 3/20/2018 | 1.69 | <0.120 | 0.167 | 0.066 |
| | 12/5/2018 | 1.63 | <0.120 | 0.374 | 0.140 |
| | 4/25/2019 | 1.46 | <0.0400 | 0.193 | 0.0798 |
| | 12/11/2019 | 1.13 | <0.120 | 0.277 | 0.120 |
| | 4/8/2020 | 1.22 | <0.0400 | 0.280 | 0.139 |
| 9/23/2020 | 2.63 | <0.120 | 0.713 | 0.362 | |
| 6/15/2021 | 5.63 | <0.120 | 0.320 | 0.217 | |
| 1/5/2022 | 1.58 | <0.120 | 0.105 | 0.137 | |
| 10/1/2024 | 0.826 | 0.00146 | 0.0186 | 0.0448 | |



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|--|--|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| MW-23 | 5/21/2013 | 0.0234 | <0.002 | <0.002 | <0.003 |
| | 10/16/2013 | 0.00599 | <0.002 | <0.002 | <0.003 |
| | 5/13/2014 | 0.0875 | <0.002 | <0.002 | <0.003 |
| | 10/14/2014 | 0.160 | <0.0060 | 0.00433 | 0.0409 |
| | 4/21/2015 | 0.0645 | <0.006 | 0.00215 | 0.00304 |
| | 12/8/2015 | 0.009 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/13/2016 | 0.0274 | <0.00600 | <0.00600 | <0.00600 |
| | 4/18/2017 | 0.0443 | <0.00600 | <0.00600 | <0.00600 |
| | 10/26/2017 | 0.318 | <0.00200 | 0.00598 | 0.0929 |
| | 3/20/2018 | 0.899 | <0.0300 | 0.025 | 0.167 |
| | 12/5/2018 | 0.0453 | <0.006 | <0.006 | 0.0235 |
| | 4/26/2019 | 0.653 | 0.0355 | 0.343 | 0.287 |
| | 12/10/2019 | PSH Present, No Sample Collected | | | |
| | 4/7/2020 | 2.64 | 0.0236 | 0.779 | 0.542 |
| 9/23/2020 | PSH Present, No Sample Collected | | | | |
| 4/27/2021 | PSH Present, No Sample Collected | | | | |
| 1/4/2022 | PSH Present, No Sample Collected | | | | |
| 10/1/2024 | 0.00613 | <0.00100 | 0.000388 | <0.0100 | |
| MW-24 | 5/20/2013 | No Sample Collected | | | |
| | 10/15/2013 | No Sample Collected | | | |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/14/2014 | 1.04 | 0.00282 | 0.707 | 0.447 |
| | 4/23/2015 | 2.73 | <0.060 | 0.717 | 0.276 |
| | 12/8/2015 | 2.14 | <0.120 | 0.743 | 0.354 |
| | 4/12/2016 | 1.86 | <0.600 | 0.478 | 0.251 |
| | 12/13/2016 | 1.62 | <0.00600 | 0.114 | 0.231 |
| | 4/18/2017 | 1.98 | <0.120 | 0.241 | 0.244 |
| | 10/26/2017 | 2.70 | <0.0400 | 0.0898 | 0.301 |
| | 3/20/2018 | 4.20 | <0.300 | 0.892 | 0.427 |
| | 12/5/2018 | 4.51 | <0.12 | 1.19 | 0.475 |
| | 4/25/2019 | PSH Present, No Sample Collected | | | |
| | 12/10/2019 | 2.67 | <3.00 | 0.898 | 0.492 |
| | 4/7/2020 | 2.73 | <0.100 | 0.821 | 0.331 |
| 9/23/2020 | 2.28 | <0.0120 | 0.367 | 0.169 | |
| 4/27/2021 | 2.37 | <0.0120 | 0.18 | 0.0876 | |
| 1/4/2022 | 2.33 | <0.0120 | 0.601 | 0.483 | |
| 10/1/2024 | Insufficient Water for Sample Collection | | | | |
| EB-02 | 5/20/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/15/2013 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 5/13/2014 | <0.0008 | <0.002 | <0.002 | <0.003 |
| | 10/14/2014 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/21/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/13/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/25/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/26/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/11/2019 | 0.00168 | <0.00600 | <0.00600 | <0.00600 |
| | 4/7/2020 | 0.00598 | <0.00200 | 0.00262 | 0.00105 |
| | 9/22/2020 | <0.000300 | <0.000600 | <0.000300 | <0.000300 |
| | 4/27/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 |
| 1/4/2022 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|------------------|--|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| EB-07 | 5/20/2013 | <0.0002 | <0.0007 | <0.0003 | <0.0009 |
| | 10/14/2013 | Insufficient Water for Sample Collection | | | |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/14/2014 | <0.0002 | <0.0007 | <0.0003 | <0.0009 |
| | 4/21/2015 | <0.0002 | <0.0007 | <0.0003 | <0.0009 |
| | 12/8/2015 | Insufficient Water for Sample Collection | | | |
| | 4/12/2016 | Insufficient Water for Sample Collection | | | |
| | 12/13/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/26/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/21/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | Insufficient Water for Sample Collection | | | |
| | 4/26/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/10/2019 | Dry | | | |
| | 4/7/2020 | Dry | | | |
| | 9/22/2020 | Dry | | | |
| 4/27/2021 | Dry | | | | |
| 1/4/2022 | Dry | | | | |
| 10/1/2024 | Could Not Locate | | | | |
| P-02 | 5/21/2013 | 0.00139 | <0.002 | <0.002 | <0.003 |
| | 10/16/2013 | 0.12200 | 0.00816 | <0.002 | 0.00343 |
| | 5/15/2014 | 0.09920 | 0.0118 | 0.00544 | 0.00447 |
| | 10/14/2014 | 0.13100 | <0.006 | 0.168 | 0.191 |
| | 4/21/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/8/2015 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 4/12/2016 | <0.002 | <0.006 | <0.006 | <0.009 |
| | 12/13/2016 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/19/2017 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 10/26/2017 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 3/20/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 12/5/2018 | <0.00200 | <0.00600 | <0.00600 | <0.00600 |
| | 4/26/2019 | <0.000800 | <0.00200 | <0.00200 | <0.00200 |
| | 12/10/2019 | <0.00200 | <0.00600 | <0.00600 | 0.00647 |
| | 4/7/2020 | <0.00100 | <0.00200 | <0.00100 | <0.00100 |
| | 9/22/2020 | <0.000300 | <0.000600 | <0.000300 | <0.000300 |
| 4/27/2021 | <0.000300 | <0.000600 | <0.000300 | <0.000300 | |
| 1/4/2022 | 0.000645 | <0.000600 | <0.000300 | 0.00280 | |
| 10/1/2024 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | |



| TABLE 3 GROUNDWATER ANALYTICAL RESULTS - BTEX Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | |
|--|------------------|--|----------------|---------------------|----------------------|
| Well Identification | Sample Date | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Total Xylenes (mg/L) |
| WQCC Standards | | 0.010 | 0.75 | 0.75 | 0.62 |
| P-05 | 5/20/2013 | Insufficient Water for Sample Collection | | | |
| | 10/14/2013 | Insufficient Water for Sample Collection | | | |
| | 5/14/2014 | Insufficient Water for Sample Collection | | | |
| | 10/13/2014 | Insufficient Water for Sample Collection | | | |
| | 4/20/2015 | Insufficient Water for Sample Collection | | | |
| | 12/8/2015 | Insufficient Water for Sample Collection | | | |
| | 4/12/2016 | Insufficient Water for Sample Collection | | | |
| | 12/13/2016 | Insufficient Water for Sample Collection | | | |
| | 4/19/2017 | Dry | | | |
| | 10/26/2017 | Dry | | | |
| | 3/20/2018 | Dry | | | |
| | 12/5/2018 | Dry | | | |
| | 4/26/2019 | Dry | | | |
| | 12/10/2019 | Dry | | | |
| | 4/7/2020 | Dry | | | |
| | 9/22/2020 | Dry | | | |
| 4/27/2021 | Dry | | | | |
| 1/4/2022 | Dry | | | | |
| 10/1/2024 | Could Not Locate | | | | |

Notes:

mg/L: Milligrams per liter

NMWQCC: New Mexico Water Quality Control Commission

PSH: Phase separated hydrocarbons

--: Not analyzed

<: Indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



| TABLE 4 GROUNDWATER ANALYTICAL RESULTS - INORGANICS Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | | | |
|--|-------------|--|------------------|------------------|---------------|--------------------------------|------------------------------|------------------------------|--------------------------|-----------------|----------------|-------------------------------|
| Well Identification | Sample Date | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Alkalinity, Bicarbonate (mg/L) | Alkalinity, Carbonate (mg/L) | Alkalinity, Hydroxide (mg/L) | Alkalinity, Total (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) |
| NMWQCC Standards | | -- | -- | -- | -- | -- | -- | -- | -- | 250 | 600 | 1,000 |
| MW-02 | 5/22/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 124 | 1,670 | 2,900 |
| | 10/17/2013 | 626 | 89.8 | 20.5 | 106 | 289 | <25.0 | <25.0 | 289 | 150 | 1,860 | 2,910 |
| | 5/14/2014 | Insufficient Water for Sample | | | | | | | | | | |
| | 10/15/2014 | 643 | 75.5 | 18.9 | 120 | 234 | -- | -- | 234 | 112 | 1,560 | 2,960 |
| | 4/23/2015 | 521 | 105 | 20.3 | 120 | 227 | <20.0 | <20.0 | 227 | 136 | 1,800 | 2,750 |
| | 12/8/2015 | 540 | 114 | 20.8 | 120 | 276 | <20.0 | <20.0 | 276 | 125 | 1,650 | 3,020 |
| | 4/13/2016 | 580 | 76.9 | 21.2 | 114 | 204 | <20.0 | <20.0 | 204 | 113 | 1,740 | 3,060 |
| | 12/14/2016 | 577 | 79.0 | 10.7 | 87.8 | 206 | <20.0 | <20.0 | 206 | 103 | 1,670 | 2,770 |
| | 4/18/2017 | 603 | 80.5 | 11.9 | 109 | 216 | <20.0 | <20.0 | 216 | 170 | 1,790 | 2,770 |
| | 10/25/2017 | 584 | 140 | 9.33 | 96.3 | 114 | <20.0 | <20.0 | 114 | 107 | 1,810 | 3,190 |
| | 3/20/2018 | 645 | 138 | 10.5 | 110 | -- | -- | -- | -- | 122 | 1,870 | 3,080 |
| | 12/5/2018 | 570 | 158 | 11.0 | 97 | 112 | <20.0 | <20.0 | 112 | 97 | 2,020 | 3,100 |
| | 4/25/2019 | 561 | 133 | 10.3 | 102 | 154 | <10.0 | <10.0 | 154 | 111 | 1,850 | 3,190 |
| | 12/10/2019 | 449 | 606 | 9.10 | 108 | <20.0 | <20.0 | <20.0 | <20.0 | 173 | 5,200 | 7,390 |
| | 4/8/2020 | Insufficient Water for Sample | | | | | | | | | | |
| 4/28/2021 | 513 | 760 | 10.2 | 103 | <10.0 | <10.0 | <10.0 | <10.0 | 77.7 | 6,670 | 9,370 | |
| 10/1/2024 | 565 | 394 | 19.4 | 84.0 | <4.00 | <4.00 | <4.00 | <4.00 | 73.1 | 5,130 | 5,260 | |
| MW-03 | 5/23/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 140 | 1,680 | 3,190 |
| | 10/16/2013 | 597 | 85.1 | 13.2 | 139 | 605 | <50.0 | <50.0 | 605 | 175 | 1,340 | 2,830 |
| | 5/15/2014 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 10/15/2014 | 588 | 92.2 | 15.4 | 147 | 663 | <10.0 | <10.0 | 663 | 132 | 1,180 | 2,860 |
| | 4/22/2015 | 428 | 98.0 | 11.3 | 110 | 563 | <20.0 | <20.0 | 563 | 118 | 1,110 | 2,460 |
| | 12/9/2015 | 475 | 92.7 | 12.3 | 112 | 627 | <20.0 | <20.0 | 627 | 104 | 1,220 | 2,640 |
| | 4/13/2016 | 481 | 95.1 | 12.4 | 107 | 585 | <20.0 | <20.0 | 585 | 123 | 1,270 | 3,020 |
| | 12/13/2016 | 573 | 61.7 | 17.6 | 110 | 699 | <20.0 | <20.0 | 699 | 119 | 1,310 | 2,960 |
| | 4/18/2017 | 585 | 62.6 | 15.8 | 115 | 586 | <20.0 | <20.0 | 586 | 95.2 | 1,300 | 2,530 |
| | 10/25/2017 | 612 | 64.4 | 14.9 | 105 | 612 | <20.0 | <20.0 | 612 | 89.7 | 1,380 | 2,920 |
| | 12/5/2018 | 615 | 79.0 | 12.0 | 107 | 507 | <20.0 | <20.0 | 507 | 105 | 1,690 | 3,030 |
| | 4/25/2019 | 574 | 81.7 | 11.9 | 109 | 369 | <10.0 | <10.0 | 369 | 113 | 1,500 | 3,010 |
| | 12/11/2019 | 701 | 86.9 | 12.2 | 114 | 815 | <20.0 | <20.0 | 815 | 114 | 1,480 | 3,480 |
| | 4/8/2020 | 686 | 72.8 | 12.4 | 111 | 656 | <20.0 | <20.0 | 656 | 99.6 | 1,400 | 3,030 |
| | 4/26/2021 | PSH Present, No Sample Collected | | | | | | | | | | |
| 10/1/2024 | 415 | 66.1 | 11.7 | 117 | 676 | <4.00 | <4.00 | 676 | 145 | 731 | 1,980 | |
| MW-08 | 5/22/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 278 | 1,610 | 3,180 |
| | 10/16/2013 | 431 | 103 | 8.37 | 246 | 479 | <12.5 | <12.5 | 479 | 235 | 1,240 | 2,460 |
| | 5/14/2014 | 538 | 120 | 7.54 | 279 | 451 | <10.0 | <10.0 | 451 | 261 | 1,630 | 2,490 |
| | 10/15/2014 | 517 | 125 | 7.98 | 316 | 465 | <10 | <10 | 465 | 253 | 1,390 | 3,080 |
| | 4/23/2015 | 432 | 125 | 7.21 | 295 | 447 | <20.0 | <20.0 | 447 | 261 | 1,560 | 2,770 |
| | 12/8/2015 | 450 | 123 | 7.84 | 278 | 461 | <20.0 | <20.0 | 461 | 274 | 1,550 | 3,060 |
| | 4/13/2016 | 471 | 120 | 8.18 | 270 | 444 | <20.0 | <20.0 | 444 | 329 | 1,700 | 3,320 |
| | 12/14/2016 | 450 | 123 | 8.36 | 283 | 470 | <20.0 | <20.0 | 470 | 325 | 1,460 | 2,970 |
| | 4/18/2017 | 509 | 131 | 8.67 | 285 | 692 | <20.0 | <20.0 | 692 | 339 | 1,570 | 3,020 |
| | 10/25/2017 | 526 | 126 | 8.12 | 287 | 410 | <20.0 | <20.0 | 410 | 355 | 1,450 | 3,300 |
| | 3/20/2018 | 595 | 141 | 8.48 | 305 | -- | -- | -- | -- | 386 | 1,580 | 3,310 |
| | 12/5/2018 | 558 | 128 | 8.10 | 273 | 412 | <20.0 | <20.0 | 412 | 453 | 1,550 | 3,480 |
| | 4/25/2019 | 558 | 136 | 7.60 | 279 | 367 | <20.0 | <20.0 | 367 | 464 | 1,640 | 3,600 |
| | 12/10/2019 | 518 | 143 | 9.23 | 308 | 431 | <20.0 | <20.0 | 431 | 520 | 1,410 | 3,410 |
| | 4/7/2020 | 534 | 132 | 9.02 | 280 | 442 | <20.0 | <20.0 | 442 | 524 | 1,420 | 3,370 |
| 4/28/2021 | 619 | 140 | 9.05 | 283 | 420 | <10.0 | <10.0 | 420 | 530 | 1,470 | 3,550 | |
| 10/1/2024 | 550 | 135 | 10.1 | 262 | 407 | <4.00 | <4.00 | 407 | 496 | 1,700 | 3,420 | |
| MW-12 | 5/22/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 109 | 2,230 | 3,770 |
| | 10/16/2013 | 576 | 208 | 5.72 | 88.4 | 373 | <12.5 | <12.5 | 373 | 106 | 1,950 | 3,290 |
| | 5/14/2014 | 562 | 260 | 5.95 | 104 | 309 | <10.0 | <10.0 | 309 | 86.0 | 2,340 | 2,470 |
| | 10/15/2014 | 672 | 170 | 6.40 | 99.9 | 370 | <10.0 | <10.0 | 370 | 79.0 | 1,690 | 3,470 |
| | 4/22/2015 | 529 | 249 | 5.68 | 93.6 | 497 | <20.0 | <20.0 | 497 | 86.8 | 2,090 | 3,650 |
| | 12/9/2015 | 537 | 245 | 5.26 | 87.9 | 461 | <20.0 | <20.0 | 461 | 79.8 | 1,970 | 3,590 |
| | 4/12/2016 | 512 | 216 | 4.95 | 102 | 341 | <20.0 | <20.0 | 341 | 91.7 | 2,130 | 3,330 |
| | 12/14/2016 | 525 | 196 | 5.70 | 69.2 | 438 | <20.0 | <20.0 | 438 | 80.5 | 1,820 | 3,420 |
| | 4/18/2017 | 536 | 282 | 5.03 | 86.7 | 336 | <20.0 | <20.0 | 366 | 76.7 | 2,370 | 3,520 |
| | 10/25/2017 | 530 | 288 | 4.95 | 94.8 | 252 | <20.0 | <20.0 | 252 | 84.4 | 2,340 | 3,000 |
| | 3/20/2018 | 559 | 300 | 5.37 | 109 | -- | -- | -- | -- | 103 | 2,320 | 3,680 |
| | 12/5/2018 | 520 | 290 | 5.18 | 90 | 351 | <20.0 | <20.0 | 351 | 82.0 | 2,410 | 3,980 |
| | 4/26/2019 | 513 | 307 | 5.20 | 103 | 322 | <10.0 | <10.0 | 322 | 108 | 2,260 | 3,820 |
| | 12/10/2019 | 550 | 350 | 5.49 | 74.5 | 350 | <20.0 | <20.0 | 350 | 62.0 | 2,450 | 4,190 |
| | 4/8/2020 | 539 | 371 | 5.40 | 83.4 | 287 | <20.0 | <20.0 | 287 | 78.4 | 2,780 | 4,230 |
| 4/8/2021 | 595 | 392 | 5.47 | 103 | 336 | <10.0 | <10.0 | 336 | 94.9 | 2,700 | 4,510 | |
| 10/1/2024 | 620 | 372 | 6.86 | 130 | 347 | <4.00 | <4.00 | 347 | 120 | 4,840 | 4,000 | |
| MW-15 | 5/21/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 6,360 | 95,600 | 141,000 |
| | 10/15/2013 | 451 | 2,810 | 104 | 3,490 | 423 | <25.0 | <25.0 | 423 | 1,320 | 16,400 | 28,500 |
| | 5/14/2014 | Insufficient Water For Sample Collection | | | | | | | | | | |
| | 10/14/2014 | 542 | 1,560 | 56.7 | 2,010 | 281 | <20.0 | <20.0 | 281 | 774 | 9,190 | 16,400 |
| | 4/21/2015 | 424 | 4,940 | 173 | 6,280 | 881 | <20.0 | <20.0 | 881 | 2,110 | 29,100 | 47,800 |
| | 12/8/2015 | 428 | 5,870 | 201 | 7,560 | 747 | <20.0 | <20.0 | 747 | 2,480 | 39,800 | 59,400 |
| | 4/12/2016 | 425 | 4,600 | 162 | 5,940 | 608 | <20.0 | <20.0 | 608 | 2,220 | 31,600 | 53,600 |
| | 12/13/2016 | 405 | 3,010 | 106 | 3,940 | 430 | <20.0 | <20.0 | 430 | 1,520 | 18,500 | 33,800 |
| | 4/19/2017 | 494 | 8,200 | 285 | 10,500 | 969 | <20.0 | <20.0 | 969 | 3,670 | 55,000 | 80,900 |
| | 10/26/2017 | 469 | 6,600 | 209 | 8,820 | 838 | <20.0 | <20.0 | 838 | 3,100 | 45,000 | 78,800 |
| | 3/20/2018 | 521 | 6,600 | 228 | 8,640 | -- | -- | -- | -- | 2,650 | 40,200 | 60,400 |
| | 12/5/2018 | 491 | 7,440 | 265 | 9,660 | 983 | <20.0 | <20.0 | 983 | 3,240 | 54,000 | 84,400 |
| | 4/25/2019 | 463 | 8,130 | 277 | 11,000 | 1,440 | <10.0 | <10.0 | 1,440 | 3,700 | 54,300 | 101,000 |
| | 12/10/2019 | 533 | 351 | 13 | 441 | 149 | <20.0 | <20.0 | 149 | 245 | 3,050 | 5,580 |
| | 4/7/2020 | 485 | 6,520 | 229 | 8,580 | 811 | <20.0 | <20.0 | 811 | 2,840 | 43,800 | 76,400 |
| 4/27/2021 | 556 | 7,070 | 261 | 9,130 | 877 | <10.0 | <10.0 | 877 | 3,200 | 47,200 | 106,000 | |
| 10/1/2024 | 473 | 5,450 | 198 | 6,700 | 632 | <4.00 | <4.00 | 632 | 2,450 | 36,700 | 35,400 | |



| TABLE 4 GROUNDWATER ANALYTICAL RESULTS - INORGANICS Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | | | |
|--|--|--|------------------|------------------|---------------|--------------------------------|------------------------------|------------------------------|--------------------------|-----------------|----------------|-------------------------------|
| Well Identification | Sample Date | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Alkalinity, Bicarbonate (mg/L) | Alkalinity, Carbonate (mg/L) | Alkalinity, Hydroxide (mg/L) | Alkalinity, Total (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) |
| NMWQCC Standards | | -- | -- | -- | -- | -- | -- | -- | -- | 250 | 600 | 1,000 |
| MW-17 | 5/21/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 158 | 1,810 | 3,290 |
| | 10/15/2013 | 612 | 118 | 9.29 | 140 | 334 | <12.5 | <12.5 | 334 | 170 | 1,590 | 2,910 |
| | 5/14/2014 | Insufficient Water For Sample Collection | | | | | | | | | | |
| | 10/14/2014 | 650 | 144 | 8.75 | 140 | 316 | <20.0 | <20.0 | 316 | 148 | 1,670 | 4,310 |
| | 4/21/2015 | 517 | 156 | 7.41 | 140 | 328 | <20.0 | <20.0 | 328 | 166 | 1,790 | 3,070 |
| | 12/8/2015 | 497 | 189 | 7.42 | 128 | 314 | <20.0 | <20.0 | 314 | 133 | 1,980 | 3,220 |
| | 4/12/2016 | 541 | 165 | 7.45 | 124 | 319 | <20.0 | <20.0 | 319 | 153 | 1,990 | 3,210 |
| | 12/13/2016 | 504 | 191 | 7.13 | 118 | 306 | <20.0 | <20.0 | 306 | 146 | 1,910 | 3,260 |
| | 4/18/2017 | 531 | 298 | 7.28 | 117 | 268 | <20.0 | <20.0 | 268 | 275 | 2,630 | 3,510 |
| | 10/25/2017 | 498 | 361 | 7.37 | 103 | 245 | <20.0 | <20.0 | 245 | 110 | 2,580 | 6,520 |
| | 3/20/2018 | 497 | 457 | 8.18 | 103 | -- | -- | -- | -- | 100 | 2,870 | 4,450 |
| | 15/5/2018 | 457 | 448 | 7.08 | 91 | 254 | <20.0 | <20.0 | 254 | 109 | 2,890 | 4,560 |
| | 4/26/2019 | 452 | 488 | 7.04 | 103 | 257 | <10.0 | <10.0 | 257 | 94 | 3,050 | 4,940 |
| | 12/10/2019 | 497 | 514 | 7.87 | 116 | 246 | <20.0 | <20.0 | 246 | 91 | 2,770 | 4,930 |
| | 4/7/2020 | 496 | 474 | 8.36 | 118 | 253 | <20.0 | <20.0 | 253 | 115 | 3,230 | 5,030 |
| 4/27/2021 | 539 | 439 | 7.48 | 99 | 252 | <10.0 | <10.0 | 252 | 99 | 2,960 | 4,550 | |
| 10/1/2024 | 525 | 455 | 8.04 | 102 | 280 | <4.00 | <4.00 | 280 | 97 | 2,970 | 4,410 | |
| MW-18 | 5/20/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 734 | 1,610 | 3,660 |
| | 10/15/2013 | 724 | 136 | 4.73 | 69.4 | 121 | <12.5 | <12.5 | 121 | 606 | 1,470 | 3,130 |
| | 5/13/2014 | 763 | 140 | 5.18 | 68.6 | 155 | <10.0 | <10.0 | 155 | 585 | 1,580 | 2,490 |
| | 10/14/2014 | 750 | 138 | 4.71 | 56.6 | 199 | <20.0 | <20.0 | 199 | 408 | 1,470 | 3,850 |
| | 4/21/2015 | 679 | 151 | 4.70 | 78.1 | 131 | <20.0 | <20.0 | 131 | 691 | 1,550 | 3,830 |
| | 12/8/2015 | 638 | 137 | 4.34 | 57.2 | 202 | <20.0 | <20.0 | 202 | 385 | 1,720 | 3,100 |
| | 4/12/2016 | 654 | 131 | 4.46 | 62.7 | 159 | <20.0 | <20.0 | 159 | 584 | 1,690 | 3,630 |
| | 12/13/2016 | 669 | 137 | 4.46 | 72.2 | 140 | <20.0 | <20.0 | 140 | 617 | 1,530 | 4,190 |
| | 4/19/2017 | 729 | 143 | 4.45 | 70.5 | 154 | <20.0 | <20.0 | 154 | 644 | 1,750 | 3,580 |
| | 10/25/2017 | 676 | 133 | 4.51 | 59.7 | 158 | <20.0 | <20.0 | 158 | 429 | 1,590 | 3,220 |
| | 3/21/2018 | 866 | 167 | 5.12 | 102.0 | -- | -- | -- | -- | 576 | 1,590 | 3,190 |
| | 12/5/2018 | 701 | 131 | 4.42 | 58.7 | 184 | <20.0 | <20.0 | 184 | 578 | 1,660 | 3,160 |
| | 4/26/2019 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 12/10/2019 | 719 | 141 | 4.61 | 69.5 | 197 | <20.0 | <20.0 | 197 | 658 | 1,490 | 3,500 |
| | 4/7/2020 | 678 | 125 | 4.36 | 55.1 | 130 | <20.0 | <20.0 | 130 | 461 | 1,430 | 3,150 |
| 4/27/2021 | 832 | 134 | 5.18 | 68.8 | 250 | <10.0 | <10.0 | 250 | 651 | 1,540 | 3,330 | |
| 10/1/2024 | Insufficient Water For Sample Collection | | | | | | | | | | | |
| MW-20 | 5/20/2013 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 10/15/2013 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 5/13/2014 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 10/15/2014 | 666 | 130 | 10.50 | 274 | 624 | <10 | <10 | 624 | 196 | 1,680 | 3,830 |
| | 4/22/2015 | 537 | 138 | 5.07 | 279 | 558 | <20.0 | <20.0 | 558 | 165 | 1,900 | 3,470 |
| | 12/8/2015 | 556 | 137 | 5.23 | 270 | 553 | <20.0 | <20.0 | 553 | 136 | 2,020 | 3,280 |
| | 4/12/2016 | 560 | 129 | 5.17 | 261 | 523 | <20.0 | <20.0 | 523 | 148 | 2,150 | 3,750 |
| | 12/14/2016 | 549 | 132 | 5.17 | 264 | 519 | <20.0 | <20.0 | 519 | 160 | 1,900 | 3,350 |
| | 4/18/2017 | 592 | 137 | 4.97 | 279 | 502 | <20.0 | <20.0 | 502 | 150 | 1,760 | 3,370 |
| | 10/25/2017 | 580 | 130 | 4.99 | 268 | 499 | <20.0 | <20.0 | 499 | 172 | 1,850 | 3,500 |
| | 3/20/2018 | 646 | 155 | 6.11 | 319 | -- | -- | -- | -- | 144 | 2,050 | 3,550 |
| | 12/5/2018 | 572 | 133 | 10.40 | 244 | 181 | <20.0 | <20.0 | 181 | 191 | 2,320 | 3,780 |
| | 4/26/2019 | 539 | 138 | 5.58 | 290 | 282 | <10.0 | <10.0 | 282 | 152 | 2,100 | 3,780 |
| | 12/11/2019 | 576 | 145 | 10.70 | 237 | 369 | <20.0 | <20.0 | 369 | 183 | 1,990 | 3,650 |
| | 4/8/2020 | 616 | 115 | 10.70 | 208 | 443 | <20.0 | <20.0 | 443 | 160 | 1,950 | 3,480 |
| 4/28/2021 | 642 | 131 | 5.57 | 275 | 456 | <10.0 | <10.0 | 456 | 159 | 1,920 | 3,500 | |
| 10/1/2024 | Insufficient Water For Sample Collection | | | | | | | | | | | |
| MW-22 | 5/23/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 76.3 | 1,790 | 3,450 |
| | 10/16/2013 | 652 | 157 | 4.84 | 63.7 | 578 | <12.5 | <12.5 | 578 | 72.9 | 1,630 | 3,120 |
| | 5/15/2014 | 692 | 179 | 5.20 | 71 | 637 | <10.0 | <10.0 | 637 | 54.6 | 1,870 | 2,060 |
| | 10/15/2014 | 707 | 195 | 5.07 | 72.2 | 626 | <10.0 | <10.0 | 626 | 57.7 | 1,580 | 3,640 |
| | 4/22/2015 | 564 | 178 | 4.06 | 52.7 | 563 | <20.0 | <20.0 | 563 | 43.4 | 1,750 | 3,280 |
| | 12/9/2015 | 605 | 185 | 4.11 | 56.4 | 611 | <20.0 | <20.0 | 611 | 68.4 | 1,650 | 3,310 |
| | 4/13/2016 | 603 | 189 | 3.65 | 75.7 | 693 | <20.0 | <20.0 | 693 | 83.4 | 2,010 | 4,160 |
| | 12/13/2016 | 579 | 174 | 3.96 | 63.7 | 585 | <20.0 | <20.0 | 585 | 70.6 | 1,660 | 3,320 |
| | 4/18/2017 | 611 | 177 | 3.69 | 63.4 | 559 | <20.0 | <20.0 | 559 | 60.8 | 1,720 | 3,290 |
| | 10/25/2017 | 632 | 179 | 3.80 | 63.1 | 567 | <20.0 | <20.0 | 567 | 56.8 | 170 | 3,450 |
| | 3/20/2018 | 697 | 215 | 4.36 | 74.5 | -- | -- | -- | -- | 65.7 | 1,840 | 3,580 |
| | 12/5/2018 | 633 | 195 | 4.27 | 64 | 594 | <20.0 | <20.0 | 594 | 63.3 | 1,860 | 3,470 |
| | 4/25/2019 | 594 | 208 | 4.28 | 66.6 | 550 | <10.0 | <10.0 | 550 | 65.0 | 1,870 | 3,840 |
| | 12/11/2019 | 611 | 230 | 4.83 | 70.7 | 549 | <20.0 | <20.0 | 549 | 106 | 1,930 | 3,740 |
| | 4/8/2020 | 621 | 217 | 5.39 | 63.9 | 572 | <20.0 | <20.0 | 572 | 75.2 | 2,080 | 3,630 |
| 4/27/2021 | Insufficient Water For Sample Collection | | | | | | | | | | | |
| 10/1/2024 | 640 | 301 | 7.18 | 105 | 663 | <4.00 | <4.00 | 663 | 108 | 2,370 | 3,930 | |
| MW-23 | 5/21/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 326 | 1,750 | 3,700 |
| | 10/16/2013 | 591 | 129 | 6.36 | 169 | 548 | <50.0 | <50.0 | 548 | 333 | 1,630 | 3,070 |
| | 5/13/2014 | 650 | 138 | 7.38 | 191 | 454 | <10.0 | <10.0 | 454 | 262 | 1,780 | 2,520 |
| | 10/14/2014 | 743 | 167 | 8.46 | 210 | 622 | <10.0 | <10.0 | 622 | 237 | 1,610 | 4,070 |
| | 4/21/2015 | 565 | 163 | 7.00 | 205 | 577 | <20.0 | <20.0 | 577 | 245 | 1,780 | 7,420 |
| | 12/8/2015 | 586 | 138 | 6.78 | 178 | 499 | <20.0 | <20.0 | 499 | 198 | 1,840 | 2,410 |
| | 4/12/2016 | 630 | 134 | 6.85 | 178 | 538 | <10.0 | <10.0 | 538 | 219 | 1,840 | 3,350 |
| | 12/13/2016 | 564 | 128 | 6.80 | 160 | 541 | <20 | <20 | 541 | 246 | 1,690 | 3,300 |
| | 4/19/2017 | 627 | 142 | 6.40 | 181 | 531 | <20 | <20 | 531 | 206 | 1,600 | 3,170 |
| | 10/26/2017 | 664 | 160 | 6.9 | 169 | 653 | <20.0 | <20.0 | 653 | 225 | 1,790 | 3,930 |
| | 3/20/2018 | 757 | 157 | 7.7 | 186 | -- | -- | -- | -- | 180 | 1,720 | 3,700 |
| | 12/5/2018 | 628 | 151 | 7.0 | 160 | 489 | <20.0 | <20.0 | 489 | 179 | 1,940 | 3,490 |
| | 4/26/2019 | 621 | 174 | 7.9 | 169 | 436 | <10.0 | <10.0 | 436 | 169 | 2,080 | 3,880 |
| | 12/10/2019 | PSH Present, No Sample Collected | | | | | | | | | | |
| | 4/7/2020 | 654 | 190 | 9.0 | 158 | 563 | <20.0 | <20.0 | 563 | 183 | 2,040 | 3,840 |
| 4/26/2021 | PSH Present, No Sample Collected | | | | | | | | | | | |
| 10/1/2024 | 610 | 265 | 7.45 | 121 | 176 | <4.00 | <4.00 | 176 | 167 | 2,360 | 3,570 | |



| TABLE 4 GROUNDWATER ANALYTICAL RESULTS - INORGANICS Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | | | |
|--|--|--|------------------|------------------|---------------|--------------------------------|------------------------------|------------------------------|--------------------------|-----------------|----------------|-------------------------------|
| Well Identification | Sample Date | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Alkalinity, Bicarbonate (mg/L) | Alkalinity, Carbonate (mg/L) | Alkalinity, Hydroxide (mg/L) | Alkalinity, Total (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) |
| NMWQCC Standards | | -- | -- | -- | -- | -- | -- | -- | -- | 250 | 600 | 1,000 |
| MW-24 | 5/21/2013 | No Sample Collected | | | | | | | | | | |
| | 10/16/2013 | No Sample Collected | | | | | | | | | | |
| | 5/13/2014 | Insufficient Water For Sample Collection | | | | | | | | | | |
| | 10/14/2014 | 682 | 405 | 7.21 | 78.6 | 781 | <10.0 | <10.0 | 781 | 79.2 | 2,080 | 4,740 |
| | 4/23/2015 | 592 | 304 | 3.8 | 83.4 | 1,370 | <20.0 | <20.0 | 1,370 | 90.1 | 2,050 | 3,440 |
| | 12/8/2015 | 578 | 293 | 3.61 | 73.7 | 817 | <20.0 | <20.0 | 817 | 84.9 | 2,100 | 2,960 |
| | 4/12/2016 | 598 | 280 | 3.77 | 72 | 805 | <20.0 | <20.0 | 805 | 88.7 | 2,110 | 3,720 |
| | 12/13/2016 | 586 | 280 | 3.82 | 69.2 | 776 | <20.0 | <20.0 | 776 | 92.3 | 1,910 | 3,960 |
| | 4/19/2017 | 589 | 306 | 4.37 | 86.3 | 731 | <20.0 | <20.0 | 731 | 107 | 2,020 | 3,770 |
| | 10/26/2017 | 649 | 291 | 3.78 | 81.1 | 803 | <20.0 | <20.0 | 803 | 89.2 | 2,060 | 4,010 |
| | 3/20/2018 | 668 | 291 | 2.90 | 86.0 | -- | -- | -- | -- | 84.0 | 1,760 | 3,990 |
| | 12/5/2018 | 580 | 270 | 2.73 | 87.4 | 987 | <20.0 | <20.0 | 287 | 93.0 | 1,820 | 3,670 |
| | 4/26/2019 | No Sample Collected | | | | | | | | | | |
| | 12/10/2019 | 618 | 309 | 3.93 | 82.0 | 781 | <20.0 | <20.0 | 298 | 103 | 2,050 | 4,000 |
| 4/7/2020 | 649 | 314 | 3.51 | 80.9 | 857 | <20.0 | <20.0 | 857 | 92.6 | 2,080 | 4,190 | |
| 4/27/2021 | 575 | 751 | 8.29 | 82.7 | 702 | <10.0 | <10.0 | 702 | 87.0 | 3,650 | 6,220 | |
| 10/1/2024 | Insufficient Water For Sample Collection | | | | | | | | | | | |
| EB-02 | 5/20/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 124 | 2,140 | 3,680 |
| | 10/15/2013 | 550 | 263 | 10.3 | 151 | 336 | <12.5 | <12.5 | 336 | 108 | 2,200 | 3,340 |
| | 5/13/2014 | 582 | 262 | 12 | 159 | 344 | <10.0 | <10.0 | 344 | 105 | 2,400 | 2,600 |
| | 10/14/2014 | 596 | 298 | 10.8 | 166 | 335 | <20.0 | <20.0 | 335 | 102 | 2,100 | 4,210 |
| | 4/21/2015 | 494 | 259 | 10.4 | 170 | 345 | <20.0 | <20.0 | 345 | 108 | 2,250 | 4,190 |
| | 12/8/2015 | 498 | 293 | 9.57 | 157 | 302 | <20.0 | <20.0 | 302 | 83.5 | 2,850 | 3,990 |
| | 4/12/2016 | 507 | 254 | 10.4 | 161 | 332 | <20.0 | <20.0 | 332 | 100 | 2,420 | 3,810 |
| | 12/13/2016 | 481 | 313 | 9.19 | 150 | 300 | <20.0 | <20.0 | 300 | 98.4 | 2,620 | 4,290 |
| | 4/19/2017 | 559 | 257 | 11.40 | 184 | 313 | <20.0 | <20.0 | 313 | 117 | 2,560 | 3,990 |
| | 10/25/2017 | 541 | 285 | 9.87 | 164 | 290 | <20.0 | <20.0 | 290 | 97.7 | 2,430 | 4,120 |
| | 3/20/2018 | 594 | 338 | 10.9 | 183 | -- | -- | -- | -- | 106 | 2,530 | 4,020 |
| | 12/5/2018 | 522 | 308 | 9.00 | 156 | 298 | <20.0 | <20.1 | 298 | 99.0 | 2,430 | 3,960 |
| | 4/26/2019 | 511 | 314 | 9.14 | 163 | 286 | <10.0 | <10.1 | 286 | 104 | 2,390 | 4,110 |
| | 12/11/2019 | 528 | 288 | 10.2 | 177 | 286 | <20.0 | <20.0 | 286 | 140 | 2,360 | 4,220 |
| | 4/7/2020 | 537 | 294 | 9.79 | 161 | 284 | <20.0 | <20.1 | 284 | 110 | 2,590 | 4,040 |
| | 4/27/2021 | 572 | 298 | 9.81 | 161 | 281 | <10.0 | <10.1 | 281 | 114 | 2,440 | 4,130 |
| | 10/1/2024 | 565 | 334 | 11.7 | 177 | 258 | <4.00 | <4.00 | 258 | 103 | 2,650 | 3,960 |
| EB-07 | 5/20/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 140 | 1,910 | 3,510 |
| | 10/15/2013 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 5/13/2014 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 10/14/2014 | 733 | 111 | 4.28 | 147 | 379 | <20.0 | <20.0 | 379 | 234 | 1,630 | 3,640 |
| | 4/21/2015 | 574 | 117 | 3.57 | 123 | 365 | <20.0 | <20.0 | 365 | 209 | 1,690 | 3,480 |
| | 12/8/2015 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/12/2016 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 12/13/2016 | 564 | 109 | 3.18 | 95.6 | 254 | <20 | <20 | 254 | 184 | 1,630 | 3,480 |
| | 4/19/2017 | 594 | 117 | 3.03 | 102 | 231 | <20.0 | <20.0 | 231 | 148 | 1,660 | 2,850 |
| | 10/26/2017 | 601 | 128 | 3.34 | 97.0 | 231 | <20.0 | <20.0 | 231 | 159 | 1,720 | 3,120 |
| | 3/21/2018 | 629 | 126 | 3.24 | 101 | -- | -- | -- | -- | 132 | 1,740 | 2,970 |
| | 4/26/2019 | 549 | 173 | 3.50 | 97.5 | 259 | <10.0 | <10.0 | 259 | 158 | 1,890 | 3,820 |
| | 12/10/2019 | Insufficient Water for Sample Collection | | | | | | | | | | |
| 4/7/2020 | Insufficient Water for Sample Collection | | | | | | | | | | | |
| 4/26/2021 | DRY | | | | | | | | | | | |
| 10/1/2024 | Could Not Locate | | | | | | | | | | | |
| P-02 | 5/21/2013 | -- | -- | -- | -- | -- | -- | -- | -- | 75.4 | 2,020 | 3,540 |
| | 10/16/2013 | 584 | 202 | 5.22 | 43.8 | 429 | <12.5 | <12.5 | 429 | 60.4 | 1,750 | 2,880 |
| | 5/15/2014 | 628 | 235 | 4.41 | 50.3 | 585 | <10.0 | <10.0 | 585 | 109 | 1,890 | 2,300 |
| | 10/14/2014 | 652 | 203 | 5.43 | 38.2 | 474 | <20.0 | <20.0 | 474 | 45.2 | 1,730 | 3,670 |
| | 4/21/2015 | 549 | 203 | 4.60 | 40.3 | 458 | <20.0 | <20.0 | 458 | 67.8 | 1,860 | 3,360 |
| | 12/8/2015 | 567 | 189 | 4.47 | 43.6 | 395 | <20.0 | <20.0 | 395 | 74.2 | 1,930 | 3,030 |
| | 4/12/2016 | 540 | 184 | 4.26 | 45.1 | 350 | <20.0 | <20.0 | 350 | 94.0 | 2,090 | 3,420 |
| | 12/13/2016 | 570 | 212 | 4.53 | 58.1 | 348 | <20.0 | <20.0 | 348 | 96.2 | 1,850 | 3,340 |
| | 4/19/2017 | 563 | 215 | 4.20 | 58.1 | 322 | <20.0 | <20.0 | 322 | 70.5 | 1,950 | 2,990 |
| | 10/26/2017 | 584 | 227 | 4.62 | 61.5 | 342 | <20.0 | <20.0 | 342 | 82.1 | 2,050 | 3,790 |
| | 3/20/2018 | 627 | 282 | 4.72 | 74.9 | -- | -- | -- | -- | 84.3 | 2,150 | 3,770 |
| | 12/5/2018 | 556 | 248 | 4.96 | 60.4 | 396 | <20.0 | <20.0 | 396 | 80.2 | 2,020 | 3,550 |
| | 4/26/2019 | 546 | 254 | 4.58 | 62.1 | 369 | <10.0 | <10.0 | 369 | 77.0 | 2,110 | 3,640 |
| | 12/10/2019 | 584 | 212 | 4.73 | 53.9 | 373 | <20.0 | <20.0 | 373 | 111 | 1,810 | 3,490 |
| | 4/7/2020 | 581 | 232 | 4.67 | 59.2 | 384 | <20.0 | <20.0 | 384 | 86.0 | 2,350 | 3,620 |
| | 4/27/2021 | 638 | 237 | 4.87 | 60.0 | 412 | <10.0 | <10.0 | 412 | 75.0 | 2,030 | 3,440 |
| 10/1/2024 | 655 | 231 | 5.52 | 71.7 | 345 | <4.00 | <4.00 | 345 | 106 | 2,010 | 3,310 | |



| TABLE 4 GROUNDWATER ANALYTICAL RESULTS - INORGANICS Empire Abo Gas Plant AKA Energy Group, LLC Eddy County, New Mexico | | | | | | | | | | | | |
|--|--|--|------------------|------------------|---------------|--------------------------------|------------------------------|------------------------------|--------------------------|-----------------|----------------|-------------------------------|
| Well Identification | Sample Date | Calcium (mg/L) | Magnesium (mg/L) | Potassium (mg/L) | Sodium (mg/L) | Alkalinity, Bicarbonate (mg/L) | Alkalinity, Carbonate (mg/L) | Alkalinity, Hydroxide (mg/L) | Alkalinity, Total (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Total Dissolved Solids (mg/L) |
| NMWQCC Standards | | -- | -- | -- | -- | -- | -- | -- | -- | 250 | 600 | 1,000 |
| P-05 | 5/21/2013 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 10/16/2013 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 5/13/2014 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 10/14/2014 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/21/2015 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 12/8/2015 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/12/2016 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 12/13/2016 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/19/2017 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 10/26/2017 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 3/20/2018 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 12/5/2018 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/26/2019 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 12/10/2019 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 4/7/2020 | Insufficient Water for Sample Collection | | | | | | | | | | |
| | 9/22/2020 | Insufficient Water for Sample Collection | | | | | | | | | | |
| 4/27/2021 | Insufficient Water for Sample Collection | | | | | | | | | | | |
| 10/1/2024 | Could Not Locate | | | | | | | | | | | |

Notes:

mg/L: Milligrams per liter

NMWQCC: New Mexico Water Quality Control Commission

PSH: Phase separated hydrocarbons

--: Not analyzed

<: Indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code



APPENDIX A

Groundwater Sampling Field Forms

Client: Kinetic
 Project Name: Empire Abo Plant
 Project Location: Eddy Co NM
 Project Manager: Stuart Hyde

LOW-FLOW GROUNDWATER SAMPLING FORM

SAMPLING INFORMATION

Soil Boring / Monitor Well Number: MW-12
 Project #: 07A2107007
 Date Completed: 10/11/24
 Total Depth of Monitor Well: 74.11
 Screen Interval: _____
 Sample Tubing Intake Depth: 71'
 Geologist: SAD, US
 Type of Water Quality Meter: Aqua troll 500
 Date Calibrated: _____
 Other Notes: _____

| Monitor Well Depth | Tubing Placement | GW Depth (static) | After Purge | Time (minutes) | Purge Rate (L/min) | Temp. (°C) | pH (unitless) | DO (mg/L) | ORP (mV) | Cond. (mS/cm) | GW Depth (feet) |
|--------------------|------------------|-------------------|-------------|----------------|--------------------|--------------|---------------|-------------|---------------|---------------|-----------------|
| | <u>71'</u> | <u>68.32</u> | | <u>1445</u> | | <u>21.45</u> | <u>6.44</u> | <u>1.73</u> | <u>-262.7</u> | <u>4.31</u> | <u>68.75</u> |
| | | | | <u>1450</u> | | <u>21.47</u> | <u>6.44</u> | <u>3.79</u> | <u>-258.6</u> | <u>4.30</u> | <u>68.03</u> |
| | | | | <u>1455</u> | | <u>21.12</u> | <u>6.98</u> | <u>0.69</u> | <u>-253.3</u> | <u>4.27</u> | <u>69.02</u> |
| | | | | <u>1500</u> | | <u>21.56</u> | <u>6.99</u> | <u>0.83</u> | <u>-244.5</u> | <u>4.23</u> | <u>69.12</u> |
| | | | | <u>1505</u> | | <u>21.41</u> | <u>6.49</u> | <u>0.86</u> | <u>-240.8</u> | <u>4.24</u> | <u>69.35</u> |

Comments:
 NR = Not Recorded

Sample @ 1510

Total Purge
3.5 L



Kinetic

Client: Empire Abu Plant
 Project Name:
 Project Location: Eddy Co Nm
 Project Manager: Stuart Hyde

LOW-FLOW GROUNDWATER SAMPLING FORM

SAMPLING INFORMATION

Date Completed: 10-1-24
 Total Depth of Monitor Well: 101.60
 Screen Interval:
 Sample Tubing Intake Depth: Bottom of Well
 Geologist: SAD

Soil Boring / Monitor Well Number: MW-17
 Project #: 07A2107007
 Type of Water Quality Meter: AquaTROLL 500
 Date Calibrated:
 Other Notes:

| Monitor Well Depth | Tubing Placement | GW Depth (static) | After Purge | Time (minutes) | Purge Rate (L/min) | Temp. (°C) | pH (unitless) | DO (mg/L) | ORP (mV) | Cond. (mS/cm) | GW Depth (feet) |
|--------------------|-----------------------|-------------------|-------------|----------------|--------------------|--------------|---------------|-------------|--------------|---------------|-----------------|
| | <u>Bottom of Well</u> | <u>98.39</u> | | <u>8:50</u> | | <u>20.03</u> | <u>7.61</u> | <u>1.14</u> | <u>-16.7</u> | <u>4.44</u> | <u>98.90</u> |
| | | | | <u>8:55</u> | | <u>20.36</u> | <u>7.54</u> | <u>1.15</u> | <u>2.9</u> | <u>4.40</u> | <u>99.10</u> |
| | | | | <u>9:00</u> | | <u>20.29</u> | <u>7.52</u> | <u>2.36</u> | <u>9.5</u> | <u>4.36</u> | <u>99.33</u> |
| | | | | <u>9:05</u> | | <u>20.38</u> | <u>7.50</u> | <u>2.49</u> | <u>12.6</u> | <u>4.35</u> | <u>99.52</u> |
| | | | | <u>9:10</u> | | <u>20.47</u> | <u>7.49</u> | <u>2.56</u> | <u>18.7</u> | <u>4.34</u> | |

Comments:

NR = Not Recorded

Start @ 837

Sample @ 915

Total Purge

2.5L



Client: kinetic
 Project Name: Empire A50 Plant
 Project Location: Eddy Co. NM
 Project Manager: stuart Hyde

LOW-FLOW GROUNDWATER SAMPLING FORM

SAMPLING INFORMATION

Date Completed: 10-1-24
 Total Depth of Monitor Well: 57.47
 Screen Interval:
 Sample Tubing Intake Depth: 52'
 Geologist: SAD, US

Soil Boring / Monitor Well Number: EB-02
 Project #: 07A2107007
 Type of Water Quality Meter: Aqua troll 500
 Date Calibrated:
 Other Notes:

| Monitor Well Depth | Tubing Placement | GW Depth (static) | After Purge | Time (minutes) | Purge Rate (L/min) | Temp. (°C) | pH (unitless) | DO (mg/L) | ORP (mV) | Cond. (mS/cm) | GW Depth (feet) |
|--------------------|------------------|-------------------|-------------|----------------|--------------------|--------------|---------------|-------------|--------------|---------------|-----------------|
| | | <u>46.29</u> | | <u>1200</u> | | <u>24.56</u> | <u>7.13</u> | <u>3.32</u> | <u>-42.2</u> | <u>4.18</u> | <u>46.32</u> |
| | | | | <u>1205</u> | | <u>22.25</u> | <u>7.58</u> | <u>6.91</u> | <u>-38.3</u> | <u>4.27</u> | <u>46.32</u> |
| | | | | <u>1220</u> | | <u>21.32</u> | <u>7.48</u> | <u>3.44</u> | <u>24.2</u> | <u>4.20</u> | <u>46.31</u> |
| | | | | <u>1225</u> | | <u>21.26</u> | <u>7.47</u> | <u>3.58</u> | <u>33.8</u> | <u>4.17</u> | <u>46.32</u> |
| | | | | <u>1230</u> | | <u>21.17</u> | <u>7.42</u> | <u>3.22</u> | <u>45.9</u> | <u>4.14</u> | <u>46.32</u> |
| | | | | <u>1235</u> | | <u>21.03</u> | <u>7.38</u> | <u>2.75</u> | <u>54.0</u> | <u>4.09</u> | <u>46.32</u> |
| | | | | <u>1240</u> | | <u>21.11</u> | <u>7.36</u> | <u>2.44</u> | <u>61.2</u> | <u>4.06</u> | <u>46.32</u> |

Comments:
 NR = Not Recorded
Start @ 1155
Checked bladder @ 1210
Sample @ 1245
Collect MSMSD @ EB-02
Total purge 10L



▽ 46.29

-57.88

57.49

Client: Kineric
 Project Name: Empire Ahe Plant
 Project Location: Eddy Co Nm
 Project Manager: A Starr Hyde

LOW-FLOW GROUNDWATER SAMPLING FORM

SAMPLING INFORMATION

Date Completed: 10-1-24
 Total Depth of Monitor Well: 27.45
 Screen Interval: _____
 Sample Tubing Intake Depth: 25'
 Geologist: SAD

Soil Boring / Monitor Well Number: P-02
 Project #: 0792107007
 Type of Water Quality Meter: Aqua Troll 500
 Date Calibrated: _____
 Other Notes: _____

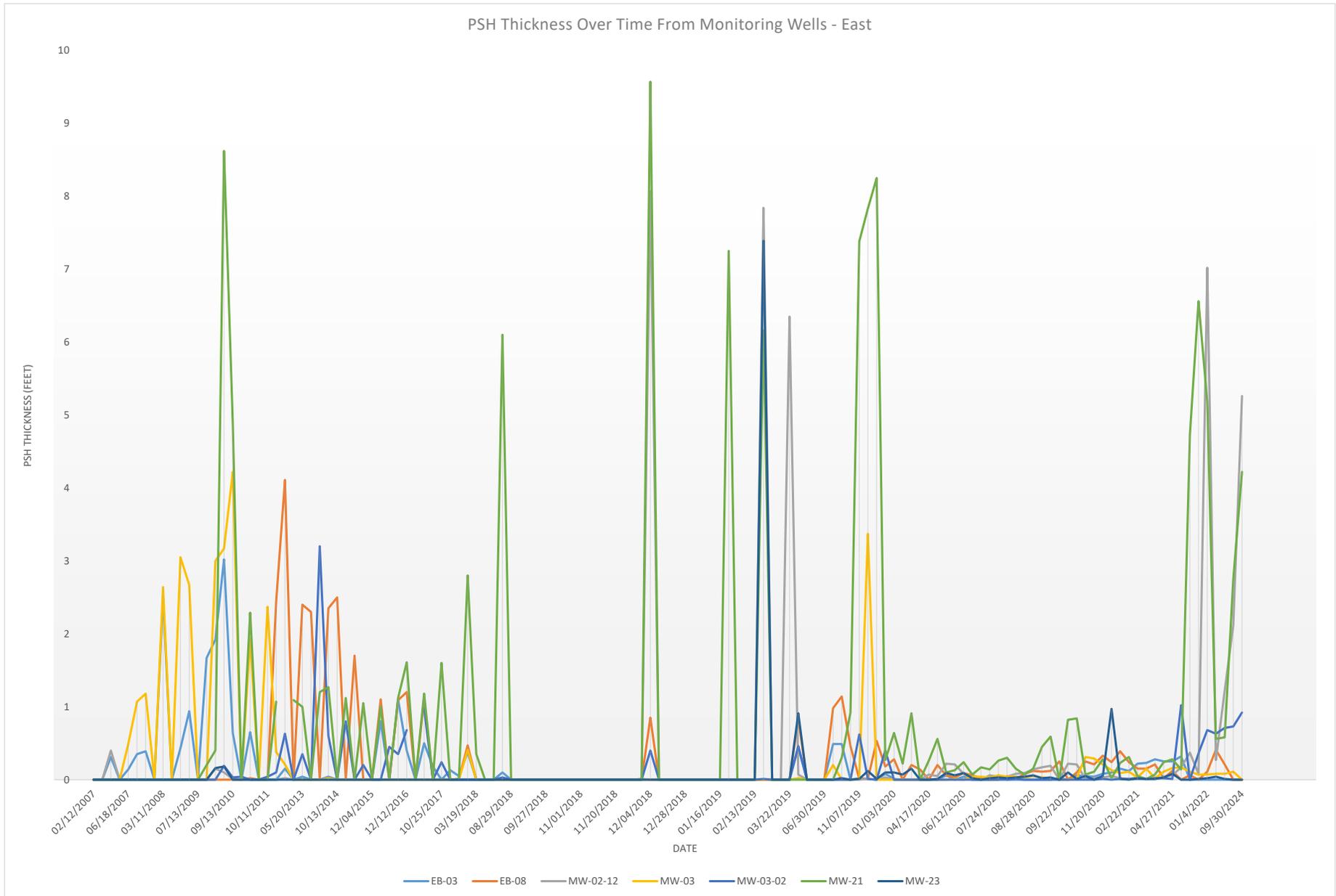
| Monitor Well Depth | Tubing Placement | GW Depth (static) | After Purge | Time | Purge Rate | Temp. | pH | DO | ORP | Cond. | GW Depth | Comments: |
|--------------------|------------------|-------------------|-------------|-------------|------------|--------------|-------------|-------------|---------------|-------------|--------------|---|
| | | | | (minutes) | (L/min) | (°C) | (unitless) | (mg/L) | (mV) | (mS/cm) | (feet) | |
| | <u>25.00</u> | <u>21.92</u> | | <u>1000</u> | | <u>21.58</u> | <u>7.33</u> | <u>3.61</u> | <u>-147.3</u> | <u>3.51</u> | <u>22.00</u> | NR = Not Recorded Starr 955 Sample @ 1020 Total Purge 3.25L |
| | | | | <u>1005</u> | | <u>20.74</u> | <u>7.25</u> | <u>2.15</u> | <u>-160.4</u> | <u>3.48</u> | <u>21.98</u> | |
| | | | | <u>1010</u> | | <u>20.62</u> | <u>7.25</u> | <u>2.06</u> | <u>-139.6</u> | <u>3.50</u> | <u>21.98</u> | |
| | | | | <u>1015</u> | | <u>20.74</u> | <u>7.24</u> | <u>2.19</u> | <u>-155.7</u> | <u>3.50</u> | <u>21.98</u> | |

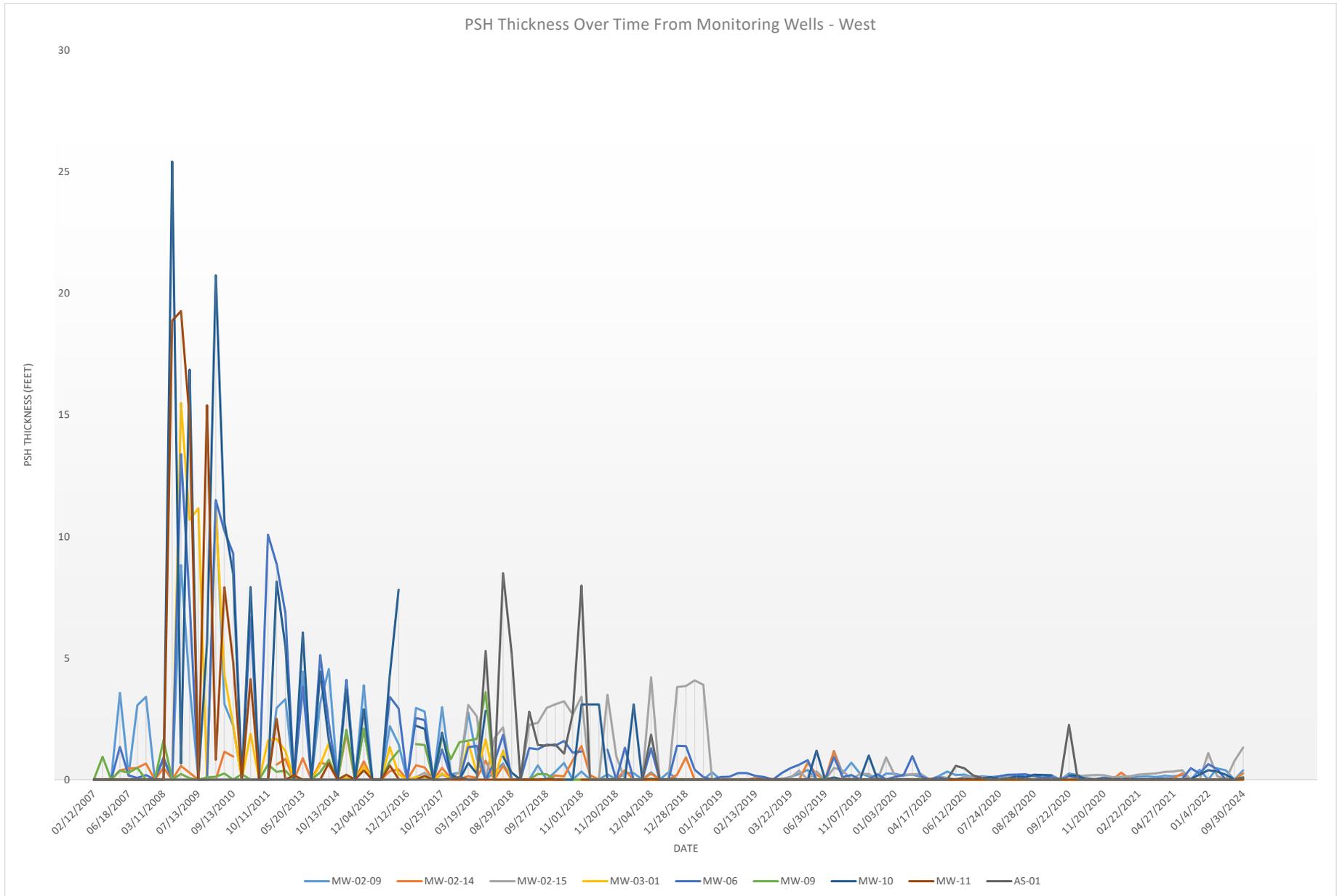




APPENDIX B

PSH Thickness Over Time Graphs







APPENDIX C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701

Generated 12/4/2024 4:36:38 PM Revision 2

JOB DESCRIPTION

EMPIRE ABO PLANT
 Eddy Co NM

JOB NUMBER

890-7181-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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12/4/2024 4:36:38 PM
Revision 2

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Laboratory Job ID: 890-7181-1
SDG: Eddy Co NM

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Definitions/Glossary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| E | Result exceeded calibration range. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |

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Definitions/Glossary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Glossary (Continued)

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

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Case Narrative

Client: Ensolum
Project: EMPIRE ABO PLANT

Job ID: 890-7181-1

Job ID: 890-7181-1

Eurofins Carlsbad

Job Narrative 890-7181-1

REVISION

The report being provided is a revision of the original report sent on 10/10/2024. The report (revision 2) is being revised due to Per client email, requesting nitrate be removed. was not requested.

Report revision history

Revision 1 - 10/21/2024 - Reason - Per client email, requesting Alkalinity.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/2/2024 9:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.4°C.

GC/MS VOA

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW - 03 (890-7181-2), MW - 22 (890-7181-7) and (890-7181-E-2 MS). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following sample was outside control limits: (CCVIS 860-191681/2). Dibromofluoromethane (Surr) is not associated with any target analytes.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-191229 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW - 17 (890-7181-6), MW - 23 (890-7181-8), PO - 02 (890-7181-10) and DUP - 01 (890-7181-12). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-191233 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW - 02 (890-7181-1), MW - 12 (890-7181-4), EB - 02 (890-7181-9) and EB - 02 MS/MSD (890-7181-11). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-191233 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300_ORGFMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-191230 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-

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Case Narrative

Client: Ensolum
Project: EMPIRE ABO PLANT

Job ID: 890-7181-1

Job ID: 890-7181-1 (Continued)

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homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFMS: The following samples were diluted due to the abundance of non-target analytes: MW - 17 (890-7181-6), MW - 23 (890-7181-8), PO - 02 (890-7181-10) and DUP - 01 (890-7181-12). Elevated reporting limits (RLs) are provided.

Method 300_ORGFMS: The following samples were analyzed outside of analytical holding time due to <EXPLANATION_REQUIRED>: MW - 17 (890-7181-6), MW - 23 (890-7181-8), PO - 02 (890-7181-10) and DUP - 01 (890-7181-12).

Method 300_ORGFMS: The following samples were diluted due to the abundance of non-target analytes: MW - 03 (890-7181-2), MW - 08 (890-7181-3), MW - 12 (890-7181-4) and MW - 22 (890-7181-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.7 - Dissolved: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-191705 and 860-191803 and analytical batch 860-192184 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 200.7 - Dissolved: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW - 02 (890-7181-1), MW - 03 (890-7181-2), MW - 08 (890-7181-3), MW - 12 (890-7181-4), MW - 15 (890-7181-5), MW - 17 (890-7181-6), MW - 22 (890-7181-7), MW - 23 (890-7181-8), EB - 02 (890-7181-9), PO - 02 (890-7181-10), EB - 02 MS/MSD (890-7181-11) and DUP - 01 (890-7181-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2320B: Sample pH are below the lowest alkalinity endpoint of pH 4.5.

MW - 02 (890-7181-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 02

Lab Sample ID: 890-7181-1

Date Collected: 10/01/24 16:45

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 04:24 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 04:24 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 04:24 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:24 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 04:24 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 144 | | 10/05/24 04:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 144 | | 10/05/24 04:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 | | 10/05/24 04:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 | | 10/05/24 04:24 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 04:24 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 04:24 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 10/05/24 04:24 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 10/05/24 04:24 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:24 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 73.1 | | 2.50 | 1.25 | mg/L | | | 10/03/24 13:45 | 5 |
| Fluoride | 19.9 | | 2.50 | 0.500 | mg/L | | | 10/03/24 13:45 | 5 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 5130 | | 25.0 | 10.0 | mg/L | | | 10/03/24 13:51 | 50 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 84.0 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:00 | 1 |
| Potassium | 19.4 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:00 | 1 |
| SiO2 | 23.3 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:00 | 1 |
| Calcium | 565 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:12 | 50 |
| Magnesium | 394 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:12 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 14:31 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 14:31 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 14:31 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 14:31 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 14:31 | 1 |
| Specific Conductance (SM 2510B) | 5290 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 19:08 | 1 |
| Total Dissolved Solids (SM 2540C) | 5260 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 4.5 | HF | | | SU | | | 10/06/24 19:08 | 1 |
| Temperature (SM 4500 H+ B) | 16.6 | HF | | | Degrees C | | | 10/06/24 19:08 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 03

Lab Sample ID: 890-7181-2

Date Collected: 10/01/24 17:30

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Toluene | 0.00304 | | 0.00100 | 0.000475 | mg/L | | | 10/05/24 08:51 | 1 |
| Ethylbenzene | 0.000454 | J | 0.00100 | 0.000385 | mg/L | | | 10/05/24 08:51 | 1 |
| m,p-Xylenes | 0.00886 | J | 0.0100 | 0.00124 | mg/L | | | 10/05/24 08:51 | 1 |
| o-Xylene | 0.00133 | | 0.00100 | 0.000502 | mg/L | | | 10/05/24 08:51 | 1 |
| Xylenes, Total | 0.0102 | | 0.0100 | 0.00124 | mg/L | | | 10/05/24 08:51 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 63 - 144 | | 10/05/24 08:51 | 1 |
| 4-Bromofluorobenzene (Surr) | 108 | | 74 - 124 | | 10/05/24 08:51 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 08:51 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 10/05/24 08:51 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|----------|----------------|---------|
| Benzene | 0.511 | | 0.0100 | 0.00460 | mg/L | | | 10/05/24 17:04 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 63 - 144 | | 10/05/24 17:04 | 10 | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 74 - 124 | | 10/05/24 17:04 | 10 | | | |
| Dibromofluoromethane (Surr) | 94 | | 75 - 131 | | 10/05/24 17:04 | 10 | | | |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | 10/05/24 17:04 | 10 | | | |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | 0.525 | | 0.0100 | 0.00124 | mg/L | | | 10/05/24 17:04 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 145 | | 50.0 | 25.0 | mg/L | | | 10/03/24 13:32 | 100 |
| Fluoride | <50.0 | U | 50.0 | 10.0 | mg/L | | | 10/03/24 13:32 | 100 |
| Sulfate | 731 | | 50.0 | 20.0 | mg/L | | | 10/03/24 13:32 | 100 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 117 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:01 | 1 |
| Potassium | 11.7 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:01 | 1 |
| SiO2 | 62.3 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:01 | 1 |
| Calcium | 415 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:13 | 50 |
| Magnesium | 66.1 | | 0.200 | 0.0428 | mg/L | | 10/07/24 09:00 | 10/07/24 15:01 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 676 | | 4.00 | 4.00 | mg/L | | | 10/14/24 18:58 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 676 | | 4.00 | 4.00 | mg/L | | | 10/14/24 18:58 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:58 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:58 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:58 | 1 |
| Specific Conductance (SM 2510B) | 2820 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 21:10 | 1 |
| Total Dissolved Solids (SM 2540C) | 1980 | | 20.0 | 20.0 | mg/L | | | 10/04/24 10:41 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 03

Lab Sample ID: 890-7181-2

Date Collected: 10/01/24 17:30

Matrix: Water

Date Received: 10/02/24 09:26

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|----|-----|-----------|---|----------|----------------|---------|
| pH (SM 4500 H+ B) | 7.2 | HF | | | SU | | | 10/06/24 21:10 | 1 |
| Temperature (SM 4500 H+ B) | 19.0 | HF | | | Degrees C | | | 10/06/24 21:10 | 1 |

Client Sample ID: MW - 08

Lab Sample ID: 890-7181-3

Date Collected: 10/01/24 15:55

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 04:44 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 04:44 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 04:44 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:44 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 04:44 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 63 - 144 | | 10/05/24 04:44 | 1 |
| 4-Bromofluorobenzene (Surr) | 112 | | 74 - 124 | | 10/05/24 04:44 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 04:44 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 10/05/24 04:44 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:44 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 496 | | 2.50 | 1.25 | mg/L | | | 10/03/24 13:07 | 5 |
| Fluoride | <2.50 | U | 2.50 | 0.500 | mg/L | | | 10/03/24 13:07 | 5 |
| Sulfate | 1700 | | 2.50 | 1.00 | mg/L | | | 10/03/24 13:07 | 5 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 262 | | 25.0 | 7.59 | mg/L | | 10/07/24 09:00 | 10/07/24 15:18 | 50 |
| Potassium | 10.1 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:03 | 1 |
| SiO2 | 29.1 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:03 | 1 |
| Calcium | 550 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:18 | 50 |
| Magnesium | 135 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:18 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 407 | | 4.00 | 4.00 | mg/L | | | 10/14/24 23:36 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 407 | | 4.00 | 4.00 | mg/L | | | 10/14/24 23:36 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:36 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:36 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:36 | 1 |
| Specific Conductance (SM 2510B) | 4640 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 19:10 | 1 |
| Total Dissolved Solids (SM 2540C) | 3420 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 08

Lab Sample ID: 890-7181-3

Date Collected: 10/01/24 15:55

Matrix: Water

Date Received: 10/02/24 09:26

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------|--------|-----------|----|-----|-----------|---|----------|----------------|---------|
| pH (SM 4500 H+ B) | 6.2 | HF | | | SU | | | 10/06/24 19:10 | 1 |
| Temperature (SM 4500 H+ B) | 16.3 | HF | | | Degrees C | | | 10/06/24 19:10 | 1 |

Client Sample ID: MW - 12

Lab Sample ID: 890-7181-4

Date Collected: 10/01/24 15:10

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|----------|------|---|-----------------|-----------------|----------------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 05:46 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 05:46 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 05:46 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 05:46 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 05:46 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 05:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 63 - 144 | | | | | 10/05/24 05:46 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | | | | 10/05/24 05:46 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 75 - 131 | | | | | 10/05/24 05:46 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | | | | 10/05/24 05:46 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 05:46 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 120 | | 2.50 | 1.25 | mg/L | | | 10/03/24 14:47 | 5 |
| Fluoride | <2.50 | U | 2.50 | 0.500 | mg/L | | | 10/03/24 14:47 | 5 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 4840 | | 25.0 | 10.0 | mg/L | | | 10/03/24 14:54 | 50 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 130 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:05 | 1 |
| Potassium | 6.86 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:05 | 1 |
| SiO2 | 27.8 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:05 | 1 |
| Calcium | 620 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:20 | 50 |
| Magnesium | 372 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:20 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 347 | | 4.00 | 4.00 | mg/L | | | 10/14/24 22:52 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 347 | | 4.00 | 4.00 | mg/L | | | 10/14/24 22:52 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:52 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:52 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:52 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 12
Date Collected: 10/01/24 15:10
Date Received: 10/02/24 09:26

Lab Sample ID: 890-7181-4
Matrix: Water

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Specific Conductance (SM 2510B) | 4340 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 19:04 | 1 |
| Total Dissolved Solids (SM 2540C) | 4000 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 6.8 | HF | | | SU | | | 10/06/24 19:04 | 1 |
| Temperature (SM 4500 H+ B) | 16.5 | HF | | | Degrees C | | | 10/06/24 19:04 | 1 |

Client Sample ID: MW - 15
Date Collected: 10/01/24 13:35
Date Received: 10/02/24 09:26

Lab Sample ID: 890-7181-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 06:06 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 06:06 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 06:06 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:06 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 06:06 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 63 - 144 | | 10/05/24 06:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 74 - 124 | | 10/05/24 06:06 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 75 - 131 | | 10/05/24 06:06 | 1 |
| Toluene-d8 (Surr) | 108 | | 80 - 120 | | 10/05/24 06:06 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 2450 | | 50.0 | 25.0 | mg/L | | | 10/03/24 14:22 | 100 |
| Fluoride | <50.0 | U | 50.0 | 10.0 | mg/L | | | 10/03/24 14:22 | 100 |
| Sulfate | 36700 | | 50.0 | 20.0 | mg/L | | | 10/03/24 14:22 | 100 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| Sodium | 6700 | | 25.0 | 7.59 | mg/L | | 10/07/24 09:00 | 10/07/24 15:39 | 50 |
| Potassium | 198 | | 25.0 | 4.57 | mg/L | | 10/07/24 09:00 | 10/07/24 15:39 | 50 |
| SiO2 | 24.2 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:25 | 1 |
| Calcium | 473 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:39 | 50 |
| Magnesium | 5450 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:39 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 632 | | 4.00 | 4.00 | mg/L | | | 10/15/24 00:23 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 632 | | 4.00 | 4.00 | mg/L | | | 10/15/24 00:23 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:23 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:23 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:23 | 1 |

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Client Sample Results

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 15

Lab Sample ID: 890-7181-5

Date Collected: 10/01/24 13:35

Matrix: Water

Date Received: 10/02/24 09:26

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Specific Conductance (SM 2510B) | 42100 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/07/24 20:55 | 1 |
| Total Dissolved Solids (SM 2540C) | 35400 | | 200 | 200 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 7.6 | HF | | | SU | | | 10/08/24 20:34 | 1 |
| Temperature (SM 4500 H+ B) | 18.8 | HF | | | Degrees C | | | 10/08/24 20:34 | 1 |

Client Sample ID: MW - 17

Lab Sample ID: 890-7181-6

Date Collected: 10/01/24 09:15

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 06:27 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 06:27 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 06:27 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:27 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 06:27 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 63 - 144 | | 10/05/24 06:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 74 - 124 | | 10/05/24 06:27 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 75 - 131 | | 10/05/24 06:27 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 10/05/24 06:27 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:27 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 97.4 | | 2.50 | 1.25 | mg/L | | | 10/03/24 18:13 | 5 |
| Fluoride | 0.972 | J | 2.50 | 0.500 | mg/L | | | 10/03/24 18:13 | 5 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 2970 | | 25.0 | 10.0 | mg/L | | | 10/03/24 18:20 | 50 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 102 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:27 | 1 |
| Potassium | 8.04 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:27 | 1 |
| SiO2 | 19.1 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:27 | 1 |
| Calcium | 525 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:41 | 50 |
| Magnesium | 455 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:41 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 280 | | 4.00 | 4.00 | mg/L | | | 10/14/24 22:43 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 280 | | 4.00 | 4.00 | mg/L | | | 10/14/24 22:43 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 17

Lab Sample ID: 890-7181-6

Date Collected: 10/01/24 09:15

Matrix: Water

Date Received: 10/02/24 09:26

General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|------|---------------|---|----------|----------------|---------|
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:43 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:43 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 22:43 | 1 |
| Specific Conductance (SM 2510B) | 4410 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 20:39 | 1 |
| Total Dissolved Solids (SM 2540C) | 4410 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 7.0 | HF | | | SU | | | 10/06/24 20:39 | 1 |
| Temperature (SM 4500 H+ B) | 18.2 | HF | | | Degrees C | | | 10/06/24 20:39 | 1 |

Client Sample ID: MW - 22

Lab Sample ID: 890-7181-7

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------|----------------|-----------|---------|----------|------|---|----------|----------------|---------|
| Toluene | 0.00146 | | 0.00100 | 0.000475 | mg/L | | | 10/05/24 09:11 | 1 |
| Ethylbenzene | 0.0186 | | 0.00100 | 0.000385 | mg/L | | | 10/05/24 09:11 | 1 |
| m,p-Xylenes | 0.0448 | | 0.0100 | 0.00124 | mg/L | | | 10/05/24 09:11 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 09:11 | 1 |
| Xylenes, Total | 0.0448 | | 0.0100 | 0.00124 | mg/L | | | 10/05/24 09:11 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 63 - 144 | | 10/05/24 09:11 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 74 - 124 | | 10/05/24 09:11 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 131 | | 10/05/24 09:11 | 1 |
| Toluene-d8 (Surr) | 106 | | 80 - 120 | | 10/05/24 09:11 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|--------|---------|------|---|----------|----------------|---------|
| Benzene | 0.826 | | 0.0200 | 0.00919 | mg/L | | | 10/05/24 17:25 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 63 - 144 | | 10/05/24 17:25 | 20 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 | | 10/05/24 17:25 | 20 |
| Dibromofluoromethane (Surr) | 94 | | 75 - 131 | | 10/05/24 17:25 | 20 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | | 10/05/24 17:25 | 20 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | 0.891 | | 0.0100 | 0.00124 | mg/L | | | 10/05/24 17:25 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------|-------------|-----------|------|------|------|---|----------|----------------|---------|
| Chloride | 108 | | 25.0 | 12.5 | mg/L | | | 10/03/24 14:10 | 50 |
| Fluoride | <25.0 | U | 25.0 | 5.00 | mg/L | | | 10/03/24 14:10 | 50 |
| Sulfate | 2370 | | 25.0 | 10.0 | mg/L | | | 10/03/24 14:10 | 50 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|-------------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 105 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:29 | 1 |
| Potassium | 7.18 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:29 | 1 |

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Client Sample Results

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 22

Lab Sample ID: 890-7181-7

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| SiO2 | 107 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:29 | 1 |
| Calcium | 640 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:46 | 50 |
| Magnesium | 301 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:46 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 663 | | 4.00 | 4.00 | mg/L | | | 10/14/24 23:26 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 663 | | 4.00 | 4.00 | mg/L | | | 10/14/24 23:26 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:26 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:26 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 23:26 | 1 |
| Specific Conductance (SM 2510B) | 3790 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 20:37 | 1 |
| Total Dissolved Solids (SM 2540C) | 3930 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 7.0 | HF | | | SU | | | 10/06/24 20:37 | 1 |
| Temperature (SM 4500 H+ B) | 17.9 | HF | | | Degrees C | | | 10/06/24 20:37 | 1 |

Client Sample ID: MW - 23

Lab Sample ID: 890-7181-8

Date Collected: 10/01/24 11:25

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | 0.00613 | | 0.00100 | 0.000460 | mg/L | | | 10/05/24 06:47 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 06:47 | 1 |
| Ethylbenzene | 0.000388 | J | 0.00100 | 0.000385 | mg/L | | | 10/05/24 06:47 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:47 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 06:47 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 144 | | 10/05/24 06:47 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 | | 10/05/24 06:47 | 1 |
| Dibromofluoromethane (Surr) | 106 | | 75 - 131 | | 10/05/24 06:47 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 10/05/24 06:47 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | 0.00652 | J | 0.0100 | 0.00124 | mg/L | | | 10/05/24 06:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 167 | | 2.50 | 1.25 | mg/L | | | 10/03/24 17:43 | 5 |
| Fluoride | 1.53 | J | 2.50 | 0.500 | mg/L | | | 10/03/24 17:43 | 5 |
| Sulfate | 2360 | | 2.50 | 1.00 | mg/L | | | 10/03/24 17:43 | 5 |

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 121 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:30 | 1 |
| Potassium | 7.45 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:30 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: MW - 23

Lab Sample ID: 890-7181-8

Date Collected: 10/01/24 11:25

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| SiO2 | 52.2 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:30 | 1 |
| Calcium | 610 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:48 | 50 |
| Magnesium | 265 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:48 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 176 | | 4.00 | 4.00 | mg/L | | | 10/14/24 20:05 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 176 | | 4.00 | 4.00 | mg/L | | | 10/14/24 20:05 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:05 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:05 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:05 | 1 |
| Specific Conductance (SM 2510B) | 4210 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 20:19 | 1 |
| Total Dissolved Solids (SM 2540C) | 3570 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 6.4 | HF | | | SU | | | 10/06/24 20:19 | 1 |
| Temperature (SM 4500 H+ B) | 18.7 | HF | | | Degrees C | | | 10/06/24 20:19 | 1 |

Client Sample ID: EB - 02

Lab Sample ID: 890-7181-9

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 03:22 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 03:22 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 03:22 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:22 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 03:22 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 10/05/24 03:22 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | 10/05/24 03:22 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 03:22 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | 10/05/24 03:22 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:22 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 103 | | 0.500 | 0.250 | mg/L | | | 10/03/24 12:27 | 1 |
| Fluoride | 0.660 | | 0.500 | 0.100 | mg/L | | | 10/03/24 12:27 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 2650 | | 5.00 | 2.00 | mg/L | | | 10/03/24 12:33 | 10 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: EB - 02

Lab Sample ID: 890-7181-9

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 177 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:32 | 1 |
| Potassium | 11.7 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:32 | 1 |
| SiO2 | 28.5 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:32 | 1 |
| Calcium | 565 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:49 | 50 |
| Magnesium | 334 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:49 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 258 | | 4.00 | 4.00 | mg/L | | | 10/15/24 00:31 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 258 | | 4.00 | 4.00 | mg/L | | | 10/15/24 00:31 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:31 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:31 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 00:31 | 1 |
| Specific Conductance (SM 2510B) | 4450 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 21:30 | 1 |
| Total Dissolved Solids (SM 2540C) | 3960 | | 40.0 | 40.0 | mg/L | | | 10/04/24 10:41 | 1 |
| pH (SM 4500 H+ B) | 6.3 | HF | | | SU | | | 10/06/24 21:30 | 1 |
| Temperature (SM 4500 H+ B) | 19.0 | HF | | | Degrees C | | | 10/06/24 21:30 | 1 |

Client Sample ID: PO - 02

Lab Sample ID: 890-7181-10

Date Collected: 10/01/24 10:20

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 07:08 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 07:08 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 07:08 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:08 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 07:08 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 63 - 144 | | 10/05/24 07:08 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | | 74 - 124 | | 10/05/24 07:08 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 75 - 131 | | 10/05/24 07:08 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 10/05/24 07:08 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:08 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 106 | | 2.50 | 1.25 | mg/L | | | 10/03/24 17:28 | 5 |
| Fluoride | 0.518 | J | 2.50 | 0.500 | mg/L | | | 10/03/24 17:28 | 5 |
| Sulfate | 2010 | | 2.50 | 1.00 | mg/L | | | 10/03/24 17:28 | 5 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: PO - 02

Lab Sample ID: 890-7181-10

Date Collected: 10/01/24 10:20

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 71.7 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:34 | 1 |
| Potassium | 5.52 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:34 | 1 |
| SiO2 | 61.0 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:34 | 1 |
| Calcium | 655 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:51 | 50 |
| Magnesium | 231 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:51 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 345 | | 4.00 | 4.00 | mg/L | | | 10/14/24 20:14 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 345 | | 4.00 | 4.00 | mg/L | | | 10/14/24 20:14 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:14 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:14 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 20:14 | 1 |
| Specific Conductance (SM 2510B) | 3620 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/09/24 19:37 | 1 |
| Total Dissolved Solids (SM 2540C) | 3310 | | 40.0 | 40.0 | mg/L | | | 10/07/24 09:35 | 1 |
| pH (SM 4500 H+ B) | 7.3 | HF | | | SU | | | 10/08/24 20:28 | 1 |
| Temperature (SM 4500 H+ B) | 19.1 | HF | | | Degrees C | | | 10/08/24 20:28 | 1 |

Client Sample ID: EB - 02 MS/MSD

Lab Sample ID: 890-7181-11

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 03:43 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 03:43 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 03:43 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:43 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 03:43 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 10/05/24 03:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | | 74 - 124 | | 10/05/24 03:43 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 131 | | 10/05/24 03:43 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 10/05/24 03:43 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:43 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 103 | | 0.500 | 0.250 | mg/L | | | 10/03/24 12:15 | 1 |
| Fluoride | 0.664 | | 0.500 | 0.100 | mg/L | | | 10/03/24 12:15 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 2630 | | 5.00 | 2.00 | mg/L | | | 10/03/24 12:21 | 10 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: EB - 02 MS/MSD

Lab Sample ID: 890-7181-11

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 172 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:36 | 1 |
| Potassium | 11.4 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:36 | 1 |
| SiO2 | 27.8 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:36 | 1 |
| Calcium | 565 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:53 | 50 |
| Magnesium | 333 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:53 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | 254 | | 4.00 | 4.00 | mg/L | | | 10/14/24 18:47 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | 254 | | 4.00 | 4.00 | mg/L | | | 10/14/24 18:47 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:47 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:47 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 18:47 | 1 |
| Specific Conductance (SM 2510B) | 4420 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 20:22 | 1 |
| Total Dissolved Solids (SM 2540C) | 3860 | | 40.0 | 40.0 | mg/L | | | 10/07/24 09:35 | 1 |
| pH (SM 4500 H+ B) | 6.9 | HF | | | SU | | | 10/06/24 20:22 | 1 |
| Temperature (SM 4500 H+ B) | 18.3 | HF | | | Degrees C | | | 10/06/24 20:22 | 1 |

Client Sample ID: DUP - 01

Lab Sample ID: 890-7181-12

Date Collected: 10/01/24 12:00

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 07:28 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 07:28 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 07:28 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:28 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 07:28 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 63 - 144 | | 10/05/24 07:28 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | 10/05/24 07:28 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 75 - 131 | | 10/05/24 07:28 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | 10/05/24 07:28 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 07:28 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|------|---|----------|----------------|---------|
| Chloride | 73.9 | | 2.50 | 1.25 | mg/L | | | 10/03/24 17:58 | 5 |
| Fluoride | 13.6 | | 2.50 | 0.500 | mg/L | | | 10/03/24 17:58 | 5 |

Method: EPA 300.0 - Anions, Ion Chromatography - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Sulfate | 3790 | | 25.0 | 10.0 | mg/L | | | 10/03/24 18:05 | 50 |

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Client Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANTJob ID: 890-7181-1
SDG: Eddy Co NM

Client Sample ID: DUP - 01

Lab Sample ID: 890-7181-12

Date Collected: 10/01/24 12:00

Matrix: Water

Date Received: 10/02/24 09:26

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | 82.6 | | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 15:37 | 1 |
| Potassium | 18.3 | | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 15:37 | 1 |
| SiO2 | 22.7 | | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 15:37 | 1 |
| Calcium | 590 | | 10.0 | 5.76 | mg/L | | 10/07/24 09:00 | 10/07/24 15:54 | 50 |
| Magnesium | 303 | | 10.0 | 2.14 | mg/L | | 10/07/24 09:00 | 10/07/24 15:54 | 50 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|------|---------------|---|----------|----------------|---------|
| Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 19:48 | 1 |
| Bicarbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 19:48 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 19:48 | 1 |
| Hydroxide Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 19:48 | 1 |
| Phenolphthalein Alkalinity (SM 2320B) | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 19:48 | 1 |
| Specific Conductance (SM 2510B) | 4780 | | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 21:28 | 1 |
| Total Dissolved Solids (SM 2540C) | 4690 | | 40.0 | 40.0 | mg/L | | | 10/07/24 09:35 | 1 |
| pH (SM 4500 H+ B) | 4.7 | HF | | | SU | | | 10/06/24 21:28 | 1 |
| Temperature (SM 4500 H+ B) | 19.0 | HF | | | Degrees C | | | 10/06/24 21:28 | 1 |

Client Sample ID: RB - 01

Lab Sample ID: 890-7181-13

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 04:03 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 04:03 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 04:03 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:03 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 04:03 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 144 | | 10/05/24 04:03 | 1 |
| 4-Bromofluorobenzene (Surr) | 109 | | 74 - 124 | | 10/05/24 04:03 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 04:03 | 1 |
| Toluene-d8 (Surr) | 106 | | 80 - 120 | | 10/05/24 04:03 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 04:03 | 1 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 890-7181-14

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 03:02 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 03:02 | 1 |

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Client Sample Results

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: TRIP BLANK

Lab Sample ID: 890-7181-14

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 09:26

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|------|---|----------|----------------|---------|
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 03:02 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:02 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 03:02 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 10/05/24 03:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | 10/05/24 03:02 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 131 | | 10/05/24 03:02 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | 10/05/24 03:02 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|--------|---------|------|---|----------|----------------|---------|
| Total BTEX | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 03:02 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|-------------------|------------------------|--|-----------------|------------------|-----------------|
| | | DCA (63-144) | BFB (74-124) | DBFM (75-131) | TOL (80-120) |
| 890-7181-13 | RB - 01 | 103 | 109 | 104 | 106 |
| 890-7181-14 | TRIP BLANK | 100 | 110 | 104 | 103 |
| 890-7181-E-1 MS | Matrix Spike | 100 | 105 | 97 | 102 |
| LCS 860-191564/3 | Lab Control Sample | 98 | 105 | 101 | 100 |
| LCSD 860-191564/4 | Lab Control Sample Dup | 99 | 107 | 98 | 98 |
| MB 860-191564/11 | Method Blank | 100 | 110 | 101 | 102 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|--------------------|------------------------|--|-----------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| | | DCA (63-144) | DCA (63-144) | BFB (74-124) | BFB (74-124) | DBFM (75-131) | DBFM (75-131) | TOL (80-120) | TOL (80-120) |
| 890-7181-1 | MW - 02 | 103 | 103 | 107 | 107 | 104 | 104 | 104 | 104 |
| 890-7181-2 | MW - 03 | 113 | 113 | 108 | 108 | 104 | 104 | 103 | 103 |
| 890-7181-2 - DL | MW - 03 | 94 | 94 | 102 | 102 | 94 | 94 | 97 | 97 |
| 890-7181-2 MS - DL | MW - 03 | 96 | 96 | 100 | 100 | 98 | 98 | 98 | 98 |
| 890-7181-3 | MW - 08 | 102 | 102 | 112 | 112 | 104 | 104 | 105 | 105 |
| 890-7181-4 | MW - 12 | 104 | 104 | 110 | 110 | 108 | 108 | 105 | 105 |
| 890-7181-5 | MW - 15 | 107 | 107 | 114 | 114 | 108 | 108 | 108 | 108 |
| 890-7181-6 | MW - 17 | 104 | 104 | 106 | 106 | 105 | 105 | 105 | 105 |
| 890-7181-7 | MW - 22 | 117 | 117 | 114 | 114 | 102 | 102 | 106 | 106 |
| 890-7181-7 - DL | MW - 22 | 96 | 96 | 105 | 105 | 94 | 94 | 98 | 98 |
| 890-7181-8 | MW - 23 | 103 | 103 | 107 | 107 | 106 | 106 | 105 | 105 |
| 890-7181-9 | EB - 02 | 100 | 100 | 110 | 110 | 104 | 104 | 104 | 104 |
| 890-7181-10 | PO - 02 | 106 | 106 | 113 | 113 | 109 | 109 | 103 | 103 |
| 890-7181-11 | EB - 02 MS/MSD | 100 | 100 | 113 | 113 | 102 | 102 | 105 | 105 |
| 890-7181-12 | DUP - 01 | 107 | 107 | 110 | 110 | 108 | 108 | 107 | 107 |
| 890-7181-E-1 MS | MW - 02 | 100 | 100 | 105 | 105 | 97 | 97 | 102 | 102 |
| LCS 860-191563/3 | Lab Control Sample | 98 | 98 | 105 | 105 | 101 | 101 | 100 | 100 |
| LCS 860-191681/3 | Lab Control Sample | 80 | 80 | 103 | 103 | 79 | 79 | 101 | 101 |
| LCSD 860-191563/4 | Lab Control Sample Dup | 99 | 99 | 107 | 107 | 98 | 98 | 98 | 98 |
| LCSD 860-191681/4 | Lab Control Sample Dup | 80 | 80 | 105 | 105 | 76 | 76 | 100 | 100 |
| MB 860-191563/11 | Method Blank | 100 | 100 | 110 | 110 | 101 | 101 | 102 | 102 |
| MB 860-191681/9 | Method Blank | 88 | 88 | 107 | 107 | 82 | 82 | 100 | 100 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-191564/11
Matrix: Water
Analysis Batch: 191564

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 02:41 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 02:41 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 02:41 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 02:41 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 02:41 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 02:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 10/05/24 02:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | 10/05/24 02:41 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 131 | | 10/05/24 02:41 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 10/05/24 02:41 | 1 |

Lab Sample ID: LCS 860-191564/3
Matrix: Water
Analysis Batch: 191564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Benzene | 0.0500 | 0.04560 | | mg/L | | 91 | 75 - 125 |
| Toluene | 0.0500 | 0.04693 | | mg/L | | 94 | 75 - 130 |
| Ethylbenzene | 0.0500 | 0.05069 | | mg/L | | 101 | 75 - 125 |
| m,p-Xylenes | 0.0500 | 0.05166 | | mg/L | | 103 | 75 - 125 |
| o-Xylene | 0.0500 | 0.04774 | | mg/L | | 95 | 75 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 131 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

Lab Sample ID: LCSD 860-191564/4
Matrix: Water
Analysis Batch: 191564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Benzene | 0.0500 | 0.04547 | | mg/L | | 91 | 75 - 125 | 0 | 25 |
| Toluene | 0.0500 | 0.04507 | | mg/L | | 90 | 75 - 130 | 4 | 25 |
| Ethylbenzene | 0.0500 | 0.04833 | | mg/L | | 97 | 75 - 125 | 5 | 25 |
| m,p-Xylenes | 0.0500 | 0.05046 | | mg/L | | 101 | 75 - 125 | 2 | 25 |
| o-Xylene | 0.0500 | 0.04597 | | mg/L | | 92 | 75 - 125 | 4 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 131 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 890-7181-E-1 MS
Matrix: Water
Analysis Batch: 191564

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Benzene | <0.000460 | U | 0.0500 | 0.03887 | | mg/L | | 78 | 66 - 142 |
| Toluene | <0.000475 | U | 0.0500 | 0.04201 | | mg/L | | 84 | 59 - 139 |
| Ethylbenzene | <0.000385 | U | 0.0500 | 0.04660 | | mg/L | | 93 | 75 - 125 |
| m,p-Xylenes | <0.00124 | U | 0.0500 | 0.04728 | | mg/L | | 95 | 75 - 125 |
| o-Xylene | <0.000502 | U | 0.0500 | 0.04430 | | mg/L | | 89 | 75 - 125 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|------------------------------|--------------|--------------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 131 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-191563/11
Matrix: Water
Analysis Batch: 191563

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 02:41 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 02:41 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 02:41 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 02:41 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 02:41 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 02:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|-----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 | | 10/05/24 02:41 | 1 |
| 4-Bromofluorobenzene (Surr) | 110 | | 74 - 124 | | 10/05/24 02:41 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 131 | | 10/05/24 02:41 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 10/05/24 02:41 | 1 |

Lab Sample ID: LCS 860-191563/3
Matrix: Water
Analysis Batch: 191563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Benzene | 0.0500 | 0.04560 | | mg/L | | 91 | 75 - 125 |
| Toluene | 0.0500 | 0.04693 | | mg/L | | 94 | 75 - 130 |
| Ethylbenzene | 0.0500 | 0.05069 | | mg/L | | 101 | 75 - 125 |
| m,p-Xylenes | 0.0500 | 0.05166 | | mg/L | | 103 | 75 - 125 |
| o-Xylene | 0.0500 | 0.04581 | | mg/L | | 92 | 75 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | LCS Limits |
|------------------------------|---------------|---------------|------------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 101 | | 75 - 131 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

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QC Sample Results

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: LCSD 860-191563/4
 Matrix: Water
 Analysis Batch: 191563

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Benzene | 0.0500 | 0.04547 | | mg/L | | 91 | 75 - 125 | 0 | 25 |
| Toluene | 0.0500 | 0.04507 | | mg/L | | 90 | 75 - 130 | 4 | 25 |
| Ethylbenzene | 0.0500 | 0.04833 | | mg/L | | 97 | 75 - 125 | 5 | 25 |
| m,p-Xylenes | 0.0500 | 0.05046 | | mg/L | | 101 | 75 - 125 | 2 | 25 |
| o-Xylene | 0.0500 | 0.04403 | | mg/L | | 88 | 75 - 125 | 4 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 98 | | 75 - 131 |
| Toluene-d8 (Surr) | 98 | | 80 - 120 |

Lab Sample ID: 890-7181-E-1 MS
 Matrix: Water
 Analysis Batch: 191563

Client Sample ID: MW - 02
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Benzene | <0.00100 | U | 0.0500 | 0.03887 | | mg/L | | 78 | 66 - 142 |
| Toluene | <0.00100 | U | 0.0500 | 0.04201 | | mg/L | | 84 | 59 - 139 |
| Ethylbenzene | <0.00100 | U | 0.0500 | 0.04660 | | mg/L | | 93 | 75 - 125 |
| m,p-Xylenes | <0.0100 | U | 0.0500 | 0.04728 | | mg/L | | 95 | 75 - 125 |
| o-Xylene | <0.00100 | U | 0.0500 | 0.04237 | | mg/L | | 85 | 75 - 125 |

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|------------------------------|--------------|--------------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 97 | | 75 - 131 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

Lab Sample ID: MB 860-191681/9
 Matrix: Water
 Analysis Batch: 191681

Client Sample ID: Method Blank
 Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|-----------|--------------|---------|----------|------|---|----------|----------------|---------|
| Benzene | <0.00100 | U | 0.00100 | 0.000460 | mg/L | | | 10/05/24 14:04 | 1 |
| Toluene | <0.00100 | U | 0.00100 | 0.000475 | mg/L | | | 10/05/24 14:04 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | 0.000385 | mg/L | | | 10/05/24 14:04 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 14:04 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | 0.000502 | mg/L | | | 10/05/24 14:04 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | 0.00124 | mg/L | | | 10/05/24 14:04 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|-----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 63 - 144 | | 10/05/24 14:04 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 74 - 124 | | 10/05/24 14:04 | 1 |
| Dibromofluoromethane (Surr) | 82 | | 75 - 131 | | 10/05/24 14:04 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 10/05/24 14:04 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANTJob ID: 890-7181-1
SDG: Eddy Co NM

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-191681/3

Matrix: Water

Analysis Batch: 191681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|-------------|------------|---------------|------|---|------|-------------|
| Benzene | 0.0500 | 0.04620 | | mg/L | | 92 | 75 - 125 |
| Toluene | 0.0500 | 0.05036 | | mg/L | | 101 | 75 - 130 |
| Ethylbenzene | 0.0500 | 0.05344 | | mg/L | | 107 | 75 - 125 |
| m,p-Xylenes | 0.0500 | 0.05129 | | mg/L | | 103 | 75 - 125 |
| o-Xylene | 0.0500 | 0.05557 | | mg/L | | 111 | 75 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 103 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 79 | | 75 - 131 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 |

Lab Sample ID: LCSD 860-191681/4

Matrix: Water

Analysis Batch: 191681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Benzene | 0.0500 | 0.04392 | | mg/L | | 88 | 75 - 125 | 5 | 25 |
| Toluene | 0.0500 | 0.04905 | | mg/L | | 98 | 75 - 130 | 3 | 25 |
| Ethylbenzene | 0.0500 | 0.05184 | | mg/L | | 104 | 75 - 125 | 3 | 25 |
| m,p-Xylenes | 0.0500 | 0.04973 | | mg/L | | 99 | 75 - 125 | 3 | 25 |
| o-Xylene | 0.0500 | 0.05333 | | mg/L | | 107 | 75 - 125 | 4 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|------------------------------|----------------|----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) | 105 | | 74 - 124 |
| Dibromofluoromethane (Surr) | 76 | | 75 - 131 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 890-7181-2 MS

Matrix: Water

Analysis Batch: 191681

Client Sample ID: MW - 03

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Benzene - DL | 0.511 | | 0.500 | 0.9345 | | mg/L | | 85 | 66 - 142 |
| Toluene - DL | <0.00475 | U | 0.500 | 0.4749 | | mg/L | | 95 | 59 - 139 |
| Ethylbenzene - DL | <0.00385 | U | 0.500 | 0.5155 | | mg/L | | 103 | 75 - 125 |
| m,p-Xylenes - DL | <0.0124 | U | 0.500 | 0.5112 | | mg/L | | 102 | 75 - 125 |
| o-Xylene - DL | <0.00502 | U | 0.500 | 0.5439 | | mg/L | | 109 | 75 - 125 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) - DL | 96 | | 63 - 144 |
| 4-Bromofluorobenzene (Surr) - DL | 100 | | 74 - 124 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Lab Sample ID: 890-7181-2 MS
Matrix: Water
Analysis Batch: 191681

Client Sample ID: MW - 03
Prep Type: Total/NA

| Surrogate | %Recovery | MS MS Qualifier | Limits |
|----------------------------------|-----------|--------------------|----------|
| Dibromofluoromethane (Surr) - DL | 98 | | 75 - 131 |
| Toluene-d8 (Surr) - DL | 98 | | 80 - 120 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-191229/3
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB MB Result Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------------------------|-------|-------|------|---|----------|----------------|---------|
| Chloride | <0.500 U | 0.500 | 0.250 | mg/L | | | 10/03/24 16:04 | 1 |
| Fluoride | <0.500 U | 0.500 | 0.100 | mg/L | | | 10/03/24 16:04 | 1 |
| Sulfate | <0.500 U | 0.500 | 0.200 | mg/L | | | 10/03/24 16:04 | 1 |

Lab Sample ID: LCS 860-191229/4
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS LCS Result Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|-----------------------------|------|---|------|-------------|
| Chloride | 10.0 | 10.01 | mg/L | | 100 | 90 - 110 |
| Fluoride | 10.0 | 9.783 | mg/L | | 98 | 90 - 110 |
| Sulfate | 10.0 | 10.08 | mg/L | | 101 | 90 - 110 |

Lab Sample ID: LCSD 860-191229/5
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD LCSD Result Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------------------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.01 | mg/L | | 100 | 90 - 110 | 0 | 20 |
| Fluoride | 10.0 | 9.785 | mg/L | | 98 | 90 - 110 | 0 | 20 |
| Sulfate | 10.0 | 10.07 | mg/L | | 101 | 90 - 110 | 0 | 20 |

Lab Sample ID: LLCS 860-191229/7
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LLCS LLCS Result Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|-------------------------------|------|---|------|-------------|
| Chloride | 0.500 | 0.4602 J | mg/L | | 92 | 50 - 150 |
| Fluoride | 0.500 | 0.4735 J | mg/L | | 95 | 50 - 150 |
| Sulfate | 0.500 | 0.5226 | mg/L | | 105 | 50 - 150 |

Lab Sample ID: 890-7185-CU-1 MS
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS MS Result Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|---------------------------|------|---|------|-------------|
| Chloride | 89.6 | | 10.0 | 96.93 4 | mg/L | | 73 | 90 - 110 |
| Fluoride | <0.500 | U | 10.0 | 10.43 | mg/L | | 104 | 90 - 110 |
| Sulfate | 7.14 | | 10.0 | 17.75 | mg/L | | 106 | 90 - 110 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7185-CU-1 MSD
Matrix: Water
Analysis Batch: 191229

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 89.6 | | 10.0 | 96.93 | 4 | mg/L | | 73 | 90 - 110 | 0 | 15 |
| Fluoride | <0.500 | U | 10.0 | 10.43 | | mg/L | | 104 | 90 - 110 | 0 | 15 |
| Sulfate | 7.14 | | 10.0 | 17.74 | | mg/L | | 106 | 90 - 110 | 0 | 15 |

Lab Sample ID: MB 860-191233/3
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|-------|------|---|----------|----------------|---------|
| Chloride | <0.500 | U | 0.500 | 0.250 | mg/L | | | 10/03/24 10:28 | 1 |
| Fluoride | <0.500 | U | 0.500 | 0.100 | mg/L | | | 10/03/24 10:28 | 1 |
| Sulfate | <0.500 | U | 0.500 | 0.200 | mg/L | | | 10/03/24 10:28 | 1 |

Lab Sample ID: LCS 860-191233/4
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 10.0 | 10.29 | | mg/L | | 103 | 90 - 110 |
| Fluoride | 10.0 | 10.34 | | mg/L | | 103 | 90 - 110 |
| Sulfate | 10.0 | 10.48 | | mg/L | | 105 | 90 - 110 |

Lab Sample ID: LCSD 860-191233/5
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Chloride | 10.0 | 10.31 | | mg/L | | 103 | 90 - 110 | 0 | 20 |
| Fluoride | 10.0 | 10.30 | | mg/L | | 103 | 90 - 110 | 0 | 20 |
| Sulfate | 10.0 | 10.35 | | mg/L | | 104 | 90 - 110 | 1 | 20 |

Lab Sample ID: LLCS 860-191233/7
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|-------------|----------------|------|---|------|-------------|
| Chloride | 0.500 | 0.5559 | | mg/L | | 111 | 50 - 150 |
| Fluoride | 0.500 | 0.4971 | J | mg/L | | 99 | 50 - 150 |
| Sulfate | 0.500 | 0.6264 | | mg/L | | 125 | 50 - 150 |

Lab Sample ID: 880-48783-D-1 MS
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 76.2 | | 10.0 | 86.24 | 4 | mg/L | | 100 | 90 - 110 |
| Fluoride | 1.64 | F1 | 10.0 | 7.379 | F1 | mg/L | | 57 | 90 - 110 |
| Sulfate | 301 | | 10.0 | 305.9 | 4 | mg/L | | 48 | 90 - 110 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-48783-D-1 MSD
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 76.2 | | 10.0 | 86.24 | 4 | mg/L | | 100 | 90 - 110 | 0 | 15 |
| Fluoride | 1.64 | F1 | 10.0 | 7.360 | F1 | mg/L | | 57 | 90 - 110 | 0 | 15 |
| Sulfate | 301 | | 10.0 | 306.3 | 4 | mg/L | | 52 | 90 - 110 | 0 | 15 |

Lab Sample ID: 885-13026-A-3 MS
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 223 | | 50.0 | 270.4 | 4 | mg/L | | 95 | 90 - 110 |
| Fluoride | 0.553 | J | 50.0 | 52.49 | | mg/L | | 104 | 90 - 110 |
| Sulfate | 492 | | 50.0 | 527.9 | 4 | mg/L | | 72 | 90 - 110 |

Lab Sample ID: 885-13026-A-3 MSD
Matrix: Water
Analysis Batch: 191233

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 223 | | 50.0 | 270.5 | 4 | mg/L | | 95 | 90 - 110 | 0 | 15 |
| Fluoride | 0.553 | J | 50.0 | 52.54 | | mg/L | | 104 | 90 - 110 | 0 | 15 |
| Sulfate | 492 | | 50.0 | 528.4 | 4 | mg/L | | 73 | 90 - 110 | 0 | 15 |

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LLCS 860-191803/4-A
Matrix: Water
Analysis Batch: 192184

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 191803

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|-------------|----------------|------|---|------|-------------|
| Sodium | 0.500 | 0.4800 | J | mg/L | | 96 | 50 - 150 |
| Potassium | 0.500 | 0.4830 | J | mg/L | | 97 | 50 - 150 |
| SiO2 | 1.07 | 1.053 | J | mg/L | | 98 | 50 - 150 |
| Calcium | 0.200 | 0.2010 | | mg/L | | 101 | 50 - 150 |
| Magnesium | 0.200 | 0.2010 | | mg/L | | 101 | 50 - 150 |

Lab Sample ID: MB 860-191705/23-B
Matrix: Water
Analysis Batch: 192184

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 191803

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | <0.500 | U | 0.500 | 0.152 | mg/L | | 10/07/24 09:00 | 10/07/24 14:39 | 1 |
| Potassium | <0.500 | U | 0.500 | 0.0914 | mg/L | | 10/07/24 09:00 | 10/07/24 14:39 | 1 |
| SiO2 | <1.07 | U | 1.07 | 0.471 | mg/L | | 10/07/24 09:00 | 10/07/24 14:39 | 1 |
| Calcium | <0.200 | U | 0.200 | 0.115 | mg/L | | 10/07/24 09:00 | 10/07/24 14:39 | 1 |
| Magnesium | <0.200 | U | 0.200 | 0.0428 | mg/L | | 10/07/24 09:00 | 10/07/24 14:39 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-191705/24-B
Matrix: Water
Analysis Batch: 192184

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 191803

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Sodium | 25.0 | 24.60 | | mg/L | | 98 | 85 - 115 |
| Potassium | 10.0 | 9.840 | | mg/L | | 98 | 85 - 115 |
| SiO2 | 21.4 | 22.04 | | mg/L | | 103 | 85 - 115 |
| Calcium | 25.0 | 25.30 | | mg/L | | 101 | 85 - 115 |
| Magnesium | 25.0 | 24.80 | | mg/L | | 99 | 85 - 115 |

Lab Sample ID: LCSD 860-191705/25-B
Matrix: Water
Analysis Batch: 192184

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved
Prep Batch: 191803

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Sodium | 25.0 | 24.70 | | mg/L | | 99 | 85 - 115 | 0 | 20 |
| Potassium | 10.0 | 9.920 | | mg/L | | 99 | 85 - 115 | 1 | 20 |
| SiO2 | 21.4 | 22.26 | | mg/L | | 104 | 85 - 115 | 1 | 20 |
| Calcium | 25.0 | 25.30 | | mg/L | | 101 | 85 - 115 | 0 | 20 |
| Magnesium | 25.0 | 24.80 | | mg/L | | 99 | 85 - 115 | 0 | 20 |

Lab Sample ID: 890-7181-4 MS
Matrix: Water
Analysis Batch: 192184

Client Sample ID: MW - 12
Prep Type: Dissolved
Prep Batch: 191803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Sodium | 130 | | 25.0 | 153.0 | 4 | mg/L | | 92 | 70 - 130 |
| Potassium | 6.86 | | 10.0 | 18.80 | | mg/L | | 119 | 70 - 130 |
| SiO2 | 27.8 | | 21.4 | 50.93 | | mg/L | | 108 | 70 - 130 |
| Calcium | 570 | E | 25.0 | 577.0 | E 4 | mg/L | | 28 | 70 - 130 |
| Magnesium | 374 | E | 25.0 | 382.0 | E 4 | mg/L | | 32 | 70 - 130 |

Lab Sample ID: 890-7181-4 MSD
Matrix: Water
Analysis Batch: 192184

Client Sample ID: MW - 12
Prep Type: Dissolved
Prep Batch: 191803

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sodium | 130 | | 25.0 | 151.0 | 4 | mg/L | | 84 | 70 - 130 | 1 | 20 |
| Potassium | 6.86 | | 10.0 | 18.60 | | mg/L | | 117 | 70 - 130 | 1 | 20 |
| SiO2 | 27.8 | | 21.4 | 50.29 | | mg/L | | 105 | 70 - 130 | 1 | 20 |
| Calcium | 570 | E | 25.0 | 568.0 | E 4 | mg/L | | -8 | 70 - 130 | 2 | 20 |
| Magnesium | 374 | E | 25.0 | 376.0 | E 4 | mg/L | | 8 | 70 - 130 | 2 | 20 |

Lab Sample ID: MB 860-191705/23-C
Matrix: Water
Analysis Batch: 192184

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 191855

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|-------|--------|------|---|----------------|----------------|---------|
| Sodium | <0.500 | U | 0.500 | 0.152 | mg/L | | 10/07/24 09:30 | 10/07/24 17:56 | 1 |
| Potassium | <0.500 | U | 0.500 | 0.0914 | mg/L | | 10/07/24 09:30 | 10/07/24 17:56 | 1 |
| SiO2 | <1.07 | U | 1.07 | 0.471 | mg/L | | 10/07/24 09:30 | 10/07/24 17:56 | 1 |
| Calcium | <0.200 | U | 0.200 | 0.115 | mg/L | | 10/07/24 09:30 | 10/07/24 17:56 | 1 |
| Magnesium | <0.200 | U | 0.200 | 0.0428 | mg/L | | 10/07/24 09:30 | 10/07/24 17:56 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-193615/3
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 17:30 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 17:30 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 17:30 | 1 |
| Hydroxide Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 17:30 | 1 |
| Phenolphthalein Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 17:30 | 1 |

Lab Sample ID: MB 860-193615/34
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 21:45 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 21:45 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 21:45 | 1 |
| Hydroxide Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 21:45 | 1 |
| Phenolphthalein Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/14/24 21:45 | 1 |

Lab Sample ID: LCS 860-193615/35
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Alkalinity | 250 | 238.6 | | mg/L | | 95 | 85 - 115 |

Lab Sample ID: LCS 860-193615/4
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Alkalinity | 250 | 251.7 | | mg/L | | 101 | 85 - 115 |

Lab Sample ID: LCSD 860-193615/36
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Alkalinity | 250 | 232.5 | | mg/L | | 93 | 85 - 115 | 3 | 20 |

Lab Sample ID: LCSD 860-193615/5
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Alkalinity | 250 | 256.8 | | mg/L | | 103 | 85 - 115 | 2 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 860-83071-A-2 DU
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|---------------------------------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| Alkalinity | 544 | | 544.5 | | mg/L | | | 0.1 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 544 | | 544.5 | | mg/L | | | 0.1 | 20 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Hydroxide Alkalinity | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Phenolphthalein Alkalinity | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |

Lab Sample ID: 870-30766-D-1 DU
Matrix: Water
Analysis Batch: 193615

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|---------------------------------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| Alkalinity | 107 | | 105.1 | | mg/L | | | 2 | 20 |
| Bicarbonate Alkalinity as CaCO3 | 107 | | 105.1 | | mg/L | | | 2 | 20 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Hydroxide Alkalinity | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Phenolphthalein Alkalinity | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |

Lab Sample ID: MB 860-193770/3
Matrix: Water
Analysis Batch: 193770

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 13:07 | 1 |
| Bicarbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 13:07 | 1 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 13:07 | 1 |
| Hydroxide Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 13:07 | 1 |
| Phenolphthalein Alkalinity | <4.00 | U | 4.00 | 4.00 | mg/L | | | 10/15/24 13:07 | 1 |

Lab Sample ID: LCS 860-193770/4
Matrix: Water
Analysis Batch: 193770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |

Lab Sample ID: LCSD 860-193770/5
Matrix: Water
Analysis Batch: 193770

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------|-------------|-------------|----------------|------|---|------|-------------|-----|-------|
| | | | | | | | | | |

Lab Sample ID: 890-7226-AO-3 DU
Matrix: Water
Analysis Batch: 193770

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|---------------------------------|--------|-----------|--------|-----------|------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| Alkalinity | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Bicarbonate Alkalinity as CaCO3 | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |
| Carbonate Alkalinity as CaCO3 | <4.00 | U | <4.00 | U | mg/L | | | NC | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 890-7226-AO-3 DU
Matrix: Water
Analysis Batch: 193770

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Hydroxide Alkalinity | <4.00 | U | <4.00 | U | mg/L | | NC | 20 |
| Phenolphthalein Alkalinity | <4.00 | U | <4.00 | U | mg/L | | NC | 20 |

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-191914/3
Matrix: Water
Analysis Batch: 191914

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|------|---------------|---|----------|----------------|---------|
| Specific Conductance | <10.0 | U | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 18:57 | 1 |

Lab Sample ID: MB 860-191914/82
Matrix: Water
Analysis Batch: 191914

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|------|---------------|---|----------|----------------|---------|
| Specific Conductance | <10.0 | U | 10.0 | 10.0 | umho/cm @ 25C | | | 10/06/24 21:27 | 1 |

Lab Sample ID: 890-7181-1 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: MW - 02
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 5290 | | 5310 | | umho/cm @ 25C | | 0.3 | 20 |

Lab Sample ID: 890-7181-3 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: MW - 08
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 4640 | | 4645 | | umho/cm @ 25C | | 0 | 20 |

Lab Sample ID: 890-7181-6 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: MW - 17
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 4410 | | 4804 | | umho/cm @ 25C | | 9 | 20 |

Lab Sample ID: 890-7181-7 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: MW - 22
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 3790 | | 4402 | | umho/cm @ 25C | | 15 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: 890-7181-8 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: MW - 23
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 4210 | | 4184 | | umho/cm @ 25C | | 0.7 | 20 |

Lab Sample ID: 890-7181-11 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: EB - 02 MS/MSD
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|------|-----------|
| Specific Conductance | 4420 | | 4424 | | umho/cm @ 25C | | 0.07 | 20 |

Lab Sample ID: 890-7181-B-4 DU
Matrix: Water
Analysis Batch: 191914

Client Sample ID: 890-7181-B-4 DU
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 4800 | | 4336 | | umho/cm @ 25C | | 10 | 20 |

Lab Sample ID: 880-49061-G-3 DU
Matrix: Water
Analysis Batch: 192278

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 234000 | | 233800 | | umho/cm @ 25C | | 0.1 | 20 |

Lab Sample ID: MB 860-192756/2
Matrix: Water
Analysis Batch: 192756

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|------|---------------|---|----------|----------------|---------|
| Specific Conductance | <10.0 | U | 10.0 | 10.0 | umho/cm @ 25C | | | 10/09/24 18:40 | 1 |

Lab Sample ID: 860-84325-A-5 DU
Matrix: Water
Analysis Batch: 192756

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------|---------------|------------------|-----------|--------------|---------------|---|-----|-----------|
| Specific Conductance | 1950 | | 1953 | | umho/cm @ 25C | | 0.3 | 20 |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-191497/1
Matrix: Water
Analysis Batch: 191497

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <5.00 | U | 5.00 | 5.00 | mg/L | | | 10/04/24 10:40 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 860-191497/2
Matrix: Water
Analysis Batch: 191497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 1000 | 971.0 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: 880-49141-L-1 DU
Matrix: Water
Analysis Batch: 191497

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 4860 | | 5012 | | mg/L | | 3 | 10 |

Lab Sample ID: 880-49142-D-1 DU
Matrix: Water
Analysis Batch: 191497

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 2600 | | 2536 | | mg/L | | 3 | 10 |

Lab Sample ID: MB 860-191833/1
Matrix: Water
Analysis Batch: 191833

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | <5.00 | U | 5.00 | 5.00 | mg/L | | | 10/07/24 09:35 | 1 |

Lab Sample ID: LCS 860-191833/2
Matrix: Water
Analysis Batch: 191833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 1000 | 1000 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: 885-13175-A-1 DU
Matrix: Water
Analysis Batch: 191833

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 558 | | 540.0 | | mg/L | | 3 | 10 |

Method: SM 4500 H+ B - pH

Lab Sample ID: 890-7181-1 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 02
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------|---------------|------------------|-----------|--------------|-----------|---|-----|-----------|
| pH | 4.5 | HF | 4.4 | | SU | | 3 | 20 |
| Temperature | 16.6 | HF | 16.2 | | Degrees C | | 2 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 890-7181-3 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 08
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 6.2 | HF | 6.5 | | SU | | 5 | | 20 |
| Temperature | 16.3 | HF | 16.7 | | Degrees C | | 2 | | 20 |

Lab Sample ID: 890-7181-6 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 17
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 7.0 | HF | 7.3 | | SU | | 4 | | 20 |
| Temperature | 18.2 | HF | 18.0 | | Degrees C | | 1 | | 20 |

Lab Sample ID: 890-7181-7 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 22
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 7.0 | HF | 7.0 | | SU | | 0.3 | | 20 |
| Temperature | 17.9 | HF | 17.9 | | Degrees C | | 0 | | 20 |

Lab Sample ID: 890-7181-8 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 23
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 6.4 | HF | 6.3 | | SU | | 2 | | 20 |
| Temperature | 18.7 | HF | 18.3 | | Degrees C | | 2 | | 20 |

Lab Sample ID: 890-7181-10 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: PO - 02
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 7.9 | HF | 6.9 | | SU | | 12 | | 20 |
| Temperature | 18.4 | HF | 18.0 | | Degrees C | | 2 | | 20 |

Lab Sample ID: 890-7181-11 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: EB - 02 MS/MSD
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 6.9 | HF | 7.0 | | SU | | 2 | | 20 |
| Temperature | 18.3 | HF | 18.5 | | Degrees C | | 1 | | 20 |

Lab Sample ID: 890-7181-B-4 DU
Matrix: Water
Analysis Batch: 191915

Client Sample ID: MW - 12
Prep Type: Total/NA

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | RPD | Limit |
|-------------|--------|-----------|--------|-----------|-----------|---|-----|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | | |
| pH | 7.3 | HF | 6.8 | | SU | | 8 | | 20 |
| Temperature | 17.7 | HF | 17.0 | | Degrees C | | 4 | | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Method: SM 4500 H+ B - pH

Lab Sample ID: 880-49452-B-1 DU
Matrix: Water
Analysis Batch: 192562

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------|---------------|------------------|-----------|--------------|-----------|---|-----|-----------|
| pH | 6.5 | | 6.5 | | SU | | 0.2 | 20 |
| Temperature | 18.7 | | 18.6 | | Degrees C | | 0.5 | 20 |

Lab Sample ID: 880-49276-A-1 DU
Matrix: Water
Analysis Batch: 192746

Client Sample ID: Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-------------|---------------|------------------|-----------|--------------|-----------|---|-----|-----------|
| pH | 7.1 | | 7.0 | | SU | | 2 | 20 |
| Temperature | 17.3 | | 16.0 | | Degrees C | | 8 | 20 |

- 1
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- 12
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- 14

QC Association Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

GC/MS VOA

Analysis Batch: 191563

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | 8260D | |
| 890-7181-2 | MW - 03 | Total/NA | Water | 8260D | |
| 890-7181-3 | MW - 08 | Total/NA | Water | 8260D | |
| 890-7181-4 | MW - 12 | Total/NA | Water | 8260D | |
| 890-7181-5 | MW - 15 | Total/NA | Water | 8260D | |
| 890-7181-6 | MW - 17 | Total/NA | Water | 8260D | |
| 890-7181-7 | MW - 22 | Total/NA | Water | 8260D | |
| 890-7181-8 | MW - 23 | Total/NA | Water | 8260D | |
| 890-7181-9 | EB - 02 | Total/NA | Water | 8260D | |
| 890-7181-10 | PO - 02 | Total/NA | Water | 8260D | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | 8260D | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | 8260D | |
| MB 860-191563/11 | Method Blank | Total/NA | Water | 8260D | |
| LCS 860-191563/3 | Lab Control Sample | Total/NA | Water | 8260D | |
| LCSD 860-191563/4 | Lab Control Sample Dup | Total/NA | Water | 8260D | |
| 890-7181-E-1 MS | MW - 02 | Total/NA | Water | 8260D | |

Analysis Batch: 191564

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | 8260D | |
| 890-7181-13 | RB - 01 | Total/NA | Water | 8260C | |
| 890-7181-14 | TRIP BLANK | Total/NA | Water | 8260C | |
| MB 860-191564/11 | Method Blank | Total/NA | Water | 8260C | |
| LCS 860-191564/3 | Lab Control Sample | Total/NA | Water | 8260C | |
| LCSD 860-191564/4 | Lab Control Sample Dup | Total/NA | Water | 8260C | |
| 890-7181-E-1 MS | Matrix Spike | Total/NA | Water | 8260C | |

Analysis Batch: 191681

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-7181-2 - DL | MW - 03 | Total/NA | Water | 8260D | |
| 890-7181-7 - DL | MW - 22 | Total/NA | Water | 8260D | |
| MB 860-191681/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 860-191681/3 | Lab Control Sample | Total/NA | Water | 8260D | |
| LCSD 860-191681/4 | Lab Control Sample Dup | Total/NA | Water | 8260D | |
| 890-7181-2 MS - DL | MW - 03 | Total/NA | Water | 8260D | |

Analysis Batch: 192271

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | Total BTEX | |
| 890-7181-2 | MW - 03 | Total/NA | Water | Total BTEX | |
| 890-7181-3 | MW - 08 | Total/NA | Water | Total BTEX | |
| 890-7181-4 | MW - 12 | Total/NA | Water | Total BTEX | |
| 890-7181-5 | MW - 15 | Total/NA | Water | Total BTEX | |
| 890-7181-6 | MW - 17 | Total/NA | Water | Total BTEX | |
| 890-7181-7 | MW - 22 | Total/NA | Water | Total BTEX | |
| 890-7181-8 | MW - 23 | Total/NA | Water | Total BTEX | |
| 890-7181-9 | EB - 02 | Total/NA | Water | Total BTEX | |
| 890-7181-10 | PO - 02 | Total/NA | Water | Total BTEX | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | Total BTEX | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | Total BTEX | |
| 890-7181-13 | RB - 01 | Total/NA | Water | Total BTEX | |

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QC Association Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANTJob ID: 890-7181-1
SDG: Eddy Co NM

GC/MS VOA (Continued)

Analysis Batch: 192271 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-7181-14 | TRIP BLANK | Total/NA | Water | Total BTEX | |

HPLC/IC

Analysis Batch: 191229

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-7181-6 | MW - 17 | Total/NA | Water | 300.0 | |
| 890-7181-6 - DL | MW - 17 | Total/NA | Water | 300.0 | |
| 890-7181-8 | MW - 23 | Total/NA | Water | 300.0 | |
| 890-7181-10 | PO - 02 | Total/NA | Water | 300.0 | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | 300.0 | |
| 890-7181-12 - DL | DUP - 01 | Total/NA | Water | 300.0 | |
| MB 860-191229/3 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 860-191229/4 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCSD 860-191229/5 | Lab Control Sample Dup | Total/NA | Water | 300.0 | |
| LLCS 860-191229/7 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 890-7185-CU-1 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 890-7185-CU-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |

Analysis Batch: 191233

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | 300.0 | |
| 890-7181-1 - DL | MW - 02 | Total/NA | Water | 300.0 | |
| 890-7181-2 | MW - 03 | Total/NA | Water | 300.0 | |
| 890-7181-3 | MW - 08 | Total/NA | Water | 300.0 | |
| 890-7181-4 | MW - 12 | Total/NA | Water | 300.0 | |
| 890-7181-4 - DL | MW - 12 | Total/NA | Water | 300.0 | |
| 890-7181-5 | MW - 15 | Total/NA | Water | 300.0 | |
| 890-7181-7 | MW - 22 | Total/NA | Water | 300.0 | |
| 890-7181-9 | EB - 02 | Total/NA | Water | 300.0 | |
| 890-7181-9 - DL | EB - 02 | Total/NA | Water | 300.0 | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | 300.0 | |
| 890-7181-11 - DL | EB - 02 MS/MSD | Total/NA | Water | 300.0 | |
| MB 860-191233/3 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 860-191233/4 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCSD 860-191233/5 | Lab Control Sample Dup | Total/NA | Water | 300.0 | |
| LLCS 860-191233/7 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 880-48783-D-1 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 880-48783-D-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |
| 885-13026-A-3 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 885-13026-A-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |

Metals

Filtration Batch: 191705

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-7181-1 | MW - 02 | Dissolved | Water | Filtration | |
| 890-7181-2 | MW - 03 | Dissolved | Water | Filtration | |
| 890-7181-3 | MW - 08 | Dissolved | Water | Filtration | |
| 890-7181-4 | MW - 12 | Dissolved | Water | Filtration | |
| 890-7181-5 | MW - 15 | Dissolved | Water | Filtration | |
| 890-7181-6 | MW - 17 | Dissolved | Water | Filtration | |

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QC Association Summary

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Metals (Continued)

Filtration Batch: 191705 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|------------|------------|
| 890-7181-7 | MW - 22 | Dissolved | Water | Filtration | |
| 890-7181-8 | MW - 23 | Dissolved | Water | Filtration | |
| 890-7181-9 | EB - 02 | Dissolved | Water | Filtration | |
| 890-7181-10 | PO - 02 | Dissolved | Water | Filtration | |
| 890-7181-11 | EB - 02 MS/MSD | Dissolved | Water | Filtration | |
| 890-7181-12 | DUP - 01 | Dissolved | Water | Filtration | |
| MB 860-191705/23-B | Method Blank | Dissolved | Water | Filtration | |
| MB 860-191705/23-C | Method Blank | Dissolved | Water | Filtration | |
| LCS 860-191705/24-B | Lab Control Sample | Dissolved | Water | Filtration | |
| LCSD 860-191705/25-B | Lab Control Sample Dup | Dissolved | Water | Filtration | |
| 890-7181-4 MS | MW - 12 | Dissolved | Water | Filtration | |
| 890-7181-4 MSD | MW - 12 | Dissolved | Water | Filtration | |

Prep Batch: 191803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|--------|------------|
| 890-7181-1 | MW - 02 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-2 | MW - 03 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-3 | MW - 08 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-4 | MW - 12 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-5 | MW - 15 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-6 | MW - 17 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-7 | MW - 22 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-8 | MW - 23 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-9 | EB - 02 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-10 | PO - 02 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-11 | EB - 02 MS/MSD | Dissolved | Water | 200.7 | 191705 |
| 890-7181-12 | DUP - 01 | Dissolved | Water | 200.7 | 191705 |
| MB 860-191705/23-B | Method Blank | Dissolved | Water | 200.7 | 191705 |
| LCS 860-191705/24-B | Lab Control Sample | Dissolved | Water | 200.7 | 191705 |
| LCSD 860-191705/25-B | Lab Control Sample Dup | Dissolved | Water | 200.7 | 191705 |
| LLCS 860-191803/4-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |
| 890-7181-4 MS | MW - 12 | Dissolved | Water | 200.7 | 191705 |
| 890-7181-4 MSD | MW - 12 | Dissolved | Water | 200.7 | 191705 |

Prep Batch: 191855

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------|-----------|--------|--------|------------|
| MB 860-191705/23-C | Method Blank | Dissolved | Water | 3010A | 191705 |

Analysis Batch: 192184

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------------|------------|
| 890-7181-1 | MW - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-1 | MW - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-2 | MW - 03 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-2 | MW - 03 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-3 | MW - 08 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-3 | MW - 08 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-4 | MW - 12 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-4 | MW - 12 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-5 | MW - 15 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-5 | MW - 15 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-6 | MW - 17 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |

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QC Association Summary

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Metals (Continued)

Analysis Batch: 192184 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-------------------|--------|---------------|------------|
| 890-7181-6 | MW - 17 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-7 | MW - 22 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-7 | MW - 22 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-8 | MW - 23 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-8 | MW - 23 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-9 | EB - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-9 | EB - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-10 | PO - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-10 | PO - 02 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-11 | EB - 02 MS/MSD | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-11 | EB - 02 MS/MSD | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-12 | DUP - 01 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-12 | DUP - 01 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| MB 860-191705/23-B | Method Blank | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| MB 860-191705/23-C | Method Blank | Dissolved | Water | 200.7 Rev 4.4 | 191855 |
| LCS 860-191705/24-B | Lab Control Sample | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| LCSD 860-191705/25-B | Lab Control Sample Dup | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| LLCS 860-191803/4-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-4 MS | MW - 12 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |
| 890-7181-4 MSD | MW - 12 | Dissolved | Water | 200.7 Rev 4.4 | 191803 |

General Chemistry

Analysis Batch: 191497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | SM 2540C | |
| 890-7181-2 | MW - 03 | Total/NA | Water | SM 2540C | |
| 890-7181-3 | MW - 08 | Total/NA | Water | SM 2540C | |
| 890-7181-4 | MW - 12 | Total/NA | Water | SM 2540C | |
| 890-7181-5 | MW - 15 | Total/NA | Water | SM 2540C | |
| 890-7181-6 | MW - 17 | Total/NA | Water | SM 2540C | |
| 890-7181-7 | MW - 22 | Total/NA | Water | SM 2540C | |
| 890-7181-8 | MW - 23 | Total/NA | Water | SM 2540C | |
| 890-7181-9 | EB - 02 | Total/NA | Water | SM 2540C | |
| MB 860-191497/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 860-191497/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 880-49141-L-1 DU | Duplicate | Total/NA | Water | SM 2540C | |
| 880-49142-D-1 DU | Duplicate | Total/NA | Water | SM 2540C | |

Analysis Batch: 191833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 890-7181-10 | PO - 02 | Total/NA | Water | SM 2540C | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | SM 2540C | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | SM 2540C | |
| MB 860-191833/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 860-191833/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 885-13175-A-1 DU | Duplicate | Total/NA | Water | SM 2540C | |

Analysis Batch: 191914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | SM 2510B | |

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QC Association Summary

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

General Chemistry (Continued)

Analysis Batch: 191914 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-7181-2 | MW - 03 | Total/NA | Water | SM 2510B | |
| 890-7181-3 | MW - 08 | Total/NA | Water | SM 2510B | |
| 890-7181-4 | MW - 12 | Total/NA | Water | SM 2510B | |
| 890-7181-6 | MW - 17 | Total/NA | Water | SM 2510B | |
| 890-7181-7 | MW - 22 | Total/NA | Water | SM 2510B | |
| 890-7181-8 | MW - 23 | Total/NA | Water | SM 2510B | |
| 890-7181-9 | EB - 02 | Total/NA | Water | SM 2510B | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | SM 2510B | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | SM 2510B | |
| MB 860-191914/3 | Method Blank | Total/NA | Water | SM 2510B | |
| MB 860-191914/82 | Method Blank | Total/NA | Water | SM 2510B | |
| LCS 860-191914/4 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCS 860-191914/83 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCSD 860-191914/5 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| LCSD 860-191914/84 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| LLCS 860-191914/6 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| 890-7181-1 DU | MW - 02 | Total/NA | Water | SM 2510B | |
| 890-7181-3 DU | MW - 08 | Total/NA | Water | SM 2510B | |
| 890-7181-6 DU | MW - 17 | Total/NA | Water | SM 2510B | |
| 890-7181-7 DU | MW - 22 | Total/NA | Water | SM 2510B | |
| 890-7181-8 DU | MW - 23 | Total/NA | Water | SM 2510B | |
| 890-7181-11 DU | EB - 02 MS/MSD | Total/NA | Water | SM 2510B | |
| 890-7181-B-4 DU | 890-7181-B-4 DU | Total/NA | Water | SM 2510B | |

Analysis Batch: 191915

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-2 | MW - 03 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-3 | MW - 08 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-4 | MW - 12 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-6 | MW - 17 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-7 | MW - 22 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-8 | MW - 23 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-9 | EB - 02 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-1 DU | MW - 02 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-3 DU | MW - 08 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-6 DU | MW - 17 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-7 DU | MW - 22 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-8 DU | MW - 23 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-10 DU | PO - 02 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-11 DU | EB - 02 MS/MSD | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-B-4 DU | MW - 12 | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 192278

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-7181-5 | MW - 15 | Total/NA | Water | SM 2510B | |
| LCS 860-192278/3 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCSD 860-192278/4 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| LLCS 860-192278/5 | Lab Control Sample | Total/NA | Water | SM 2510B | |

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QC Association Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANTJob ID: 890-7181-1
SDG: Eddy Co NM

General Chemistry (Continued)

Analysis Batch: 192278 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 880-49061-G-3 DU | Duplicate | Total/NA | Water | SM 2510B | |

Analysis Batch: 192562

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------------|------------|
| 890-7181-5 | MW - 15 | Total/NA | Water | SM 4500 H+ B | |
| 890-7181-10 | PO - 02 | Total/NA | Water | SM 4500 H+ B | |
| 880-49452-B-1 DU | Duplicate | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 192746

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------------|------------|
| 890-7181-10 | PO - 02 | Total/NA | Water | SM 4500 H+ B | |
| 880-49276-A-1 DU | Duplicate | Total/NA | Water | SM 4500 H+ B | |

Analysis Batch: 192756

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-7181-10 | PO - 02 | Total/NA | Water | SM 2510B | |
| MB 860-192756/2 | Method Blank | Total/NA | Water | SM 2510B | |
| LCS 860-192756/3 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCSD 860-192756/4 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| LLCS 860-192756/5 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| 860-84325-A-5 DU | Duplicate | Total/NA | Water | SM 2510B | |

Analysis Batch: 193615

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-7181-2 | MW - 03 | Total/NA | Water | SM 2320B | |
| 890-7181-3 | MW - 08 | Total/NA | Water | SM 2320B | |
| 890-7181-4 | MW - 12 | Total/NA | Water | SM 2320B | |
| 890-7181-5 | MW - 15 | Total/NA | Water | SM 2320B | |
| 890-7181-6 | MW - 17 | Total/NA | Water | SM 2320B | |
| 890-7181-7 | MW - 22 | Total/NA | Water | SM 2320B | |
| 890-7181-8 | MW - 23 | Total/NA | Water | SM 2320B | |
| 890-7181-9 | EB - 02 | Total/NA | Water | SM 2320B | |
| 890-7181-10 | PO - 02 | Total/NA | Water | SM 2320B | |
| 890-7181-11 | EB - 02 MS/MSD | Total/NA | Water | SM 2320B | |
| 890-7181-12 | DUP - 01 | Total/NA | Water | SM 2320B | |
| MB 860-193615/3 | Method Blank | Total/NA | Water | SM 2320B | |
| MB 860-193615/34 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 860-193615/35 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCS 860-193615/4 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCSD 860-193615/36 | Lab Control Sample Dup | Total/NA | Water | SM 2320B | |
| LCSD 860-193615/5 | Lab Control Sample Dup | Total/NA | Water | SM 2320B | |
| 860-83071-A-2 DU | Duplicate | Total/NA | Water | SM 2320B | |
| 870-30766-D-1 DU | Duplicate | Total/NA | Water | SM 2320B | |

Analysis Batch: 193770

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-7181-1 | MW - 02 | Total/NA | Water | SM 2320B | |
| MB 860-193770/3 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 860-193770/4 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCSD 860-193770/5 | Lab Control Sample Dup | Total/NA | Water | SM 2320B | |
| 890-7226-AO-3 DU | Duplicate | Total/NA | Water | SM 2320B | |

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Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 02

Lab Sample ID: 890-7181-1

Date Collected: 10/01/24 16:45

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 04:24 | KLV | EET HOU |
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191564 | 10/05/24 04:24 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 04:24 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191233 | 10/03/24 13:45 | WP | EET HOU |
| Total/NA | Analysis | 300.0 | DL | 50 | | | 191233 | 10/03/24 13:51 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:00 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:12 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193770 | 10/15/24 14:31 | CT | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 19:08 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 19:08 | RY | EET HOU |

Client Sample ID: MW - 03

Lab Sample ID: 890-7181-2

Date Collected: 10/01/24 17:30

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 08:51 | KLV | EET HOU |
| Total/NA | Analysis | 8260D | DL | 10 | 5 mL | 5 mL | 191681 | 10/05/24 17:04 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 17:04 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 100 | | | 191233 | 10/03/24 13:32 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:01 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:13 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 18:58 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 21:10 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 50 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 21:10 | RY | EET HOU |

Client Sample ID: MW - 08

Lab Sample ID: 890-7181-3

Date Collected: 10/01/24 15:55

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 04:44 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 04:44 | KLV | EET HOU |

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Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 08

Lab Sample ID: 890-7181-3

Date Collected: 10/01/24 15:55

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | | 5 | | | 191233 | 10/03/24 13:07 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:03 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:18 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 23:36 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 19:10 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 19:10 | RY | EET HOU |

Client Sample ID: MW - 12

Lab Sample ID: 890-7181-4

Date Collected: 10/01/24 15:10

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 05:46 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 05:46 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191233 | 10/03/24 14:47 | WP | EET HOU |
| Total/NA | Analysis | 300.0 | DL | 50 | | | 191233 | 10/03/24 14:54 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:05 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:20 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 22:52 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 19:04 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 19:04 | RY | EET HOU |

Client Sample ID: MW - 15

Lab Sample ID: 890-7181-5

Date Collected: 10/01/24 13:35

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 06:06 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 06:06 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 100 | | | 191233 | 10/03/24 14:22 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:25 | DP | EET HOU |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 15

Lab Sample ID: 890-7181-5

Date Collected: 10/01/24 13:35

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:39 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/15/24 00:23 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 192278 | 10/07/24 20:55 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 5 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 192562 | 10/08/24 20:34 | MR | EET HOU |

Client Sample ID: MW - 17

Lab Sample ID: 890-7181-6

Date Collected: 10/01/24 09:15

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 06:27 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 06:27 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191229 | 10/03/24 18:13 | A1S | EET HOU |
| Total/NA | Analysis | 300.0 | DL | 50 | | | 191229 | 10/03/24 18:20 | A1S | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:27 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:41 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 22:43 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 20:39 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 20:39 | RY | EET HOU |

Client Sample ID: MW - 22

Lab Sample ID: 890-7181-7

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 09:11 | KLV | EET HOU |
| Total/NA | Analysis | 8260D | DL | 20 | 5 mL | 5 mL | 191681 | 10/05/24 17:25 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 17:25 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 50 | | | 191233 | 10/03/24 14:10 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:29 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:46 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 23:26 | MR | EET HOU |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: MW - 22

Lab Sample ID: 890-7181-7

Date Collected: 10/01/24 14:15

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 20:37 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 20:37 | RY | EET HOU |

Client Sample ID: MW - 23

Lab Sample ID: 890-7181-8

Date Collected: 10/01/24 11:25

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 06:47 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 06:47 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191229 | 10/03/24 17:43 | A1S | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:30 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:48 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 20:05 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 20:19 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 20:19 | RY | EET HOU |

Client Sample ID: EB - 02

Lab Sample ID: 890-7181-9

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 03:22 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 03:22 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 1 | | | 191233 | 10/03/24 12:27 | WP | EET HOU |
| Total/NA | Analysis | 300.0 | DL | 10 | | | 191233 | 10/03/24 12:33 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:32 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:49 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/15/24 00:31 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 21:30 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191497 | 10/04/24 10:41 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 21:30 | RY | EET HOU |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: PO - 02

Lab Sample ID: 890-7181-10

Date Collected: 10/01/24 10:20

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 07:08 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 07:08 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191229 | 10/03/24 17:28 | A1S | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:34 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:51 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 20:14 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 192756 | 10/09/24 19:37 | MR | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191833 | 10/07/24 09:35 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 192562 | 10/08/24 20:28 | MR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 192746 | 10/09/24 19:37 | MR | EET HOU |

Client Sample ID: EB - 02 MS/MSD

Lab Sample ID: 890-7181-11

Date Collected: 10/01/24 12:45

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 03:43 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 03:43 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 1 | | | 191233 | 10/03/24 12:15 | WP | EET HOU |
| Total/NA | Analysis | 300.0 | DL | 10 | | | 191233 | 10/03/24 12:21 | WP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:36 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:53 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 18:47 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 20:22 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191833 | 10/07/24 09:35 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 20:22 | RY | EET HOU |

Client Sample ID: DUP - 01

Lab Sample ID: 890-7181-12

Date Collected: 10/01/24 12:00

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260D | | 1 | 5 mL | 5 mL | 191563 | 10/05/24 07:28 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 07:28 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 5 | | | 191229 | 10/03/24 17:58 | A1S | EET HOU |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

Client Sample ID: DUP - 01

Lab Sample ID: 890-7181-12

Date Collected: 10/01/24 12:00

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|---------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 300.0 | DL | 50 | | | 191229 | 10/03/24 18:05 | A1S | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 1 | | | 192184 | 10/07/24 15:37 | DP | EET HOU |
| Dissolved | Filtration | Filtration | | | 250 mL | 250 mL | 191705 | 10/06/24 07:16 | AGR | EET HOU |
| Dissolved | Prep | 200.7 | | | 50 mL | 50 mL | 191803 | 10/07/24 09:00 | MD | EET HOU |
| Dissolved | Analysis | 200.7 Rev 4.4 | | 50 | | | 192184 | 10/07/24 15:54 | DP | EET HOU |
| Total/NA | Analysis | SM 2320B | | 1 | | | 193615 | 10/14/24 19:48 | MR | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 191914 | 10/06/24 21:28 | RY | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 25 mL | 200 mL | 191833 | 10/07/24 09:35 | TR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 191915 | 10/06/24 21:28 | RY | EET HOU |

Client Sample ID: RB - 01

Lab Sample ID: 890-7181-13

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 191564 | 10/05/24 04:03 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 04:03 | KLV | EET HOU |

Client Sample ID: TRIP BLANK

Lab Sample ID: 890-7181-14

Date Collected: 10/01/24 00:00

Matrix: Water

Date Received: 10/02/24 09:26

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 5 mL | 5 mL | 191564 | 10/05/24 03:02 | KLV | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 192271 | 10/05/24 03:02 | KLV | EET HOU |

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704215 | 06-30-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------------------------------|
| SM 2320B | | Water | Bicarbonate Alkalinity as CaCO3 |
| SM 2320B | | Water | Carbonate Alkalinity as CaCO3 |
| SM 2320B | | Water | Hydroxide Alkalinity |
| SM 2320B | | Water | Phenolphthalein Alkalinity |
| SM 4500 H+ B | | Water | Temperature |
| Total BTEX | | Water | Total BTEX |

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Method Summary

Client: Ensolum
 Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
 SDG: Eddy Co NM

| Method | Method Description | Protocol | Laboratory |
|---------------|---------------------------------------|----------|------------|
| 8260C | Volatile Organic Compounds by GC/MS | SW846 | EET HOU |
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET HOU |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET HOU |
| 300.0 | Anions, Ion Chromatography | EPA | EET HOU |
| 200.7 Rev 4.4 | Metals (ICP) | EPA | EET HOU |
| SM 2320B | Alkalinity | SM | EET HOU |
| SM 2510B | Conductivity, Specific Conductance | SM | EET HOU |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| 200.7 | Preparation, Total Recoverable Metals | EPA | EET HOU |
| 5030C | Purge and Trap | SW846 | EET HOU |
| Filtration | Sample Filtration | None | EET HOU |

Protocol References:

- EPA = US Environmental Protection Agency
- None = None
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum
Project/Site: EMPIRE ABO PLANT

Job ID: 890-7181-1
SDG: Eddy Co NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-7181-1 | MW - 02 | Water | 10/01/24 16:45 | 10/02/24 09:26 |
| 890-7181-2 | MW - 03 | Water | 10/01/24 17:30 | 10/02/24 09:26 |
| 890-7181-3 | MW - 08 | Water | 10/01/24 15:55 | 10/02/24 09:26 |
| 890-7181-4 | MW - 12 | Water | 10/01/24 15:10 | 10/02/24 09:26 |
| 890-7181-5 | MW - 15 | Water | 10/01/24 13:35 | 10/02/24 09:26 |
| 890-7181-6 | MW - 17 | Water | 10/01/24 09:15 | 10/02/24 09:26 |
| 890-7181-7 | MW - 22 | Water | 10/01/24 14:15 | 10/02/24 09:26 |
| 890-7181-8 | MW - 23 | Water | 10/01/24 11:25 | 10/02/24 09:26 |
| 890-7181-9 | EB - 02 | Water | 10/01/24 12:45 | 10/02/24 09:26 |
| 890-7181-10 | PO - 02 | Water | 10/01/24 10:20 | 10/02/24 09:26 |
| 890-7181-11 | EB - 02 MS/MSD | Water | 10/01/24 12:45 | 10/02/24 09:26 |
| 890-7181-12 | DUP - 01 | Water | 10/01/24 12:00 | 10/02/24 09:26 |
| 890-7181-13 | RB - 01 | Water | 10/01/24 00:00 | 10/02/24 09:26 |
| 890-7181-14 | TRIP BLANK | Water | 10/01/24 00:00 | 10/02/24 09:26 |

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 1 of 2

| | | | |
|------------------|-------------------------|-------------------------|---------------------------|
| Project Manager: | <i>Sruvari Hyde</i> | Bill to: (if different) | |
| Company Name: | <i>Ensolium LLC</i> | Company Name: | |
| Address: | <i>600 Mainfield Dr</i> | Address: | |
| City, State ZIP: | <i>MIDLAND TX 79701</i> | City, State ZIP: | |
| Phone: | <i>432 230 3344</i> | Email: | <i>shyde@ensolium.com</i> |

| | |
|-------------------|---|
| Program: | UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project: | Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Reporting: | Level II <input type="checkbox"/> Level III <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |
| Deliverables: | EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> |

| | | | | | |
|-------------------|-------------------------|------------------------|---|----------------------|---------------|
| Project Name: | <i>Empire Abu Plant</i> | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | <i>07A2107007</i> | Due Date: | TAT starts the day received by the lab, if received by 4:30pm | Parameters | |
| Project Location: | <i>Eddy Co. NAM</i> | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | <i>TMM007</i> |
| Sampler's Name: | <i>Shane D. Ho</i> | Correction Factor: | <i>-0.2</i> | Temperature Reading: | <i>-1.6</i> |
| PO #: | <i>07A2107007</i> | Corrected Temperature: | <i>-1.4</i> | # of Cont | |

| | |
|------------------|--|
| ANALYSIS REQUEST | Preservative Codes |
| | None: NO DI Water: H ₂ O |
| | Cool: Cool MeOH: Me |
| | HCL: HC HNO ₃ : HN |
| | H ₂ SO ₄ : H ₂ NaOH: Na |
| | C ₂ : HP |
| | SO ₄ : NABIS |
| | S ₂ O ₃ : NaSO ₃ |
| | acetate+NaOH: Zn |
| | H+Ascorbic Acid: SAPC |



890-7181 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|-----------------|
| MW-02 | GW | 10-1-24 | 1645 | | G | 7 | |
| MW-03 | GW | 10-1-24 | 1730 | | G | 7 | |
| MW-08 | GW | 10-1-24 | 1555 | | G | 7 | |
| MW-12 | GW | 10-1-24 | 1510 | | G | 7 | |
| MW-15 | GW | 10-1-24 | 1335 | | G | 7 | |
| MW-17 | GW | 10-1-24 | 0915 | | G | 7 | |
| MW-22 | GW | 10-1-24 | 1415 | | G | 7 | |
| MW-23 | GW | 10-1-24 | 1125 | | G | 7 | |
| EB-02 | GW | 10-1-24 | 1245 | | G | 7 | |
| PO-02 | GW | 10-1-24 | 1020 | | G | 7 | |

Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>Shane D. Ho</i> | <i>Sruvari Hyde</i> | 10/2 9:46 | | | |
| | | | | | |
| | | | | | |

Revised Date: 08/25/2020 Rev. 2020.2



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Eurofins Carlsbad

1089 N Canal St
 Carlsbad, NM 88220
 Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



E V m m Toss 73

| | | | | | | |
|--|--|-------------------------------------|-----------------|--|--|---------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab Piv: | Carrier Tracking No(s): | | COC No: |
| Client Contact: | | Phone: | Kramer, Jessica | State of Origin: | | 890-4005.1 |
| Shipping/Receiving: | | E-Mail: Jessica.Kramer@eurofins.com | | New Mexico | | Page: 1 of 2 |
| Company: Eurofins Environment Testing South Cent | | Accreditations Required (See note): | | NETAP Texas | | Job #: |
| Address: 4145 Greenhobar Dr | | Due Date Requested: | | Analysis Requested | | 890-7181.1 |
| City: Starford | | 10/8/2024 | | TAT Requested (days): | | Preservation Codes: |
| State, Zip: TX, 77477 | | PO #: | | Field Filtered Sample (Yes or No) | | |
| Phone: 281-240-4200(Tel) | | WO #: | | Perform MS/MSD (Yes or No) | | |
| Email: 281-240-4200(Tel) | | Project #: | | 8260D/5030C BTEX | | |
| Project Name: EMPIRE ABO PLANT | | 89000091 | | Total_BTEX | | |
| Site: SSOV#: | | SSOV#: | | 200.7/200.7_P TR Catlons | | |
| | | | | 2510BJ Specific Conductance | | |
| | | | | 2540C_Catcd/ Solids, Total Dissolved (TDS) | | |
| | | | | 300_ORGFM_28D/ Chloride, Fluoride, Sulfate | | |
| | | | | 300_ORGFMS/ Nitrate and Nitrite as N | | |
| | | | | SM4500_H+/ pH and Temperature | | |
| | | | | 8260C/5030C BTEX | | |
| | | | | Total Number of containers | | |
| | | | | Special Instructions/Note: | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (G=Comb, G=Grab) | Matrix (Water, Sediment, Other) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8260D/5030C BTEX | Total_BTEX | 200.7/200.7_P TR Catlons | 2510BJ Specific Conductance | 2540C_Catcd/ Solids, Total Dissolved (TDS) | 300_ORGFM_28D/ Chloride, Fluoride, Sulfate | 300_ORGFMS/ Nitrate and Nitrite as N | SM4500_H+/ pH and Temperature | 8260C/5030C BTEX | Total Number of containers | Special Instructions/Note: |
|--|-------------|-------------|------------------------------|---------------------------------|--------------------|-----------------------------------|----------------------------|------------------|------------|--------------------------|-----------------------------|--|--|--------------------------------------|-------------------------------|------------------|----------------------------|----------------------------|
| MW 02 (890-7181-1) | 10/1/24 | 16:45 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 03 (890-7181-2) | 10/1/24 | 17:30 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 08 (890-7181-3) | 10/1/24 | 15:55 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 12 (890-7181-4) | 10/1/24 | 15:10 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 15 (890-7181-5) | 10/1/24 | 13:35 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 17 (890-7181-6) | 10/1/24 | 09:15 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW 22 (890-7181-7) | 10/1/24 | 14:15 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| MW - 23 (890-7181-8) | 10/1/24 | 11:25 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |
| EB - 02 (890-7181-9) | 10/1/24 | 12:45 | G | Water | | X | X | X | X | X | X | X | X | X | X | X | X | |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/method being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I II III IV Other (specify) _____ Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

| | | | | | | |
|--|------------------|---|--------------|---------------|----------|---------------------|
| Empty Kit Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: | Method of Shipment: |
| Relinquished by: | | | Received by: | | | |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: | |
| Relinquished by: | Date/Time: | Company: | Received by: | 10/1/24 09:27 | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Custody Seal No. | Cooler Temperature(s) °C and Other Remarks: 78° | | 12368 | | |

Ver: 05/06/2024

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Eurofins Carlisbad

1089 N Canal St
 Carlisbad, NM 88220
 Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Eurofins Environmental Testing

| | | | | |
|--|-------------------------------|--|-----------------------------|---------------------|
| Client Information (Sub Contract Lab) | Sampler: | Lab P/N: | Carrier Tracking No(s): | COC No: |
| Client Contact: | Phone: | Kramer Jessica | | 890-4005.2 |
| Shipping/Receiving: | | E-Mail: Jessica.Kramer@eurofins.com | State of Origin: New Mexico | Page: Page 2 of 2 |
| Company: Eurofins Environment Testing South Cent | Due Date Requested: 10/8/2024 | Accreditations Required (See note): NEAP Texas | | Job #: 890-7181-1 |
| Address: 4145 Greenbriar Dr | TAT Requested (days): | | | Preservation Codes: |
| City: Stafford | | | | |
| State, Zip: TX, 77477 | | | | |
| Phone: 281-240-4200(Tel) | PO #: | | | |
| Email: W/O #: | Project #: | | | |
| | 89000091 | | | |
| Project Name: EMP/RE ABO PLANT | SSCOW#: | | | |
| Site: | | | | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Inorganic, Semisolid, G=grab) | Analysis Requested | | Total Number of Containers | Special Instructions/Note: |
|--|-------------|-------------|------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|----------------------------|----------------------------|
| | | | | | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | | |
| PO 02 (890-7181-10) | 10/1/24 | 10:20 | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 7 | |
| EB 02 MS/MSD (890-7181 11) | 10/1/24 | 12:45 | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 7 | |
| DUP 01 (890-7181-12) | 10/1/24 | 12:00 | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 7 | |
| RB 01 (890-7181-13) | 10/1/24 | | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 3 | |
| TRIP BLANK (890-7181 14) | 10/1/24 | | G | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 6 | |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I, II, III, IV Other (specify) _____ Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

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|--|-------------------|--|--------------|------------|----------|
| Empty Kit Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Custody Seal No.: | Cooler Temperature(s) and Other Remarks: | | | |

Eurofins Eaton Analytical South Bend

110 S Hill Street
South Bend, IN 46817
Phone: 574-233-4177 Fax: 574-233-8207

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
 Company: Eurofins Environment Testing South Cent
 Address: 4145 Greenbriar Dr
 City: Stafford
 State: TX, 77477
 Phone: 281-240-4200(csl)
 Email: VNO #:
 Project Name: Liberty Hill DPR Project
 Project #: 81008926
 SSOV#: SSCOV#

Sample Information

Sample: MBR Train 1 Filtrate (810-122673-1)
 Date: 10/2/24
 Time: 12:23
 Sample Type: G
 Matrix: Water
 Preservation Code: G

Analysis Requested

Field Filtered Sample (Yes or No):
 Perform MS/MSD (Yes or No):
 351.2/351.2_Prep Total Kjeldahl Nitrogen (TKN)
 353.2
 353.2_Nitrite
 Nitrate_Calc
 2320B
 180.1
 8M52108_Calc/BOD_Prep BOD, 5-day
 HACH8000_NP

Chain of Custody

| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
|------------------|------------|----------|--------------|------------|----------|
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |

Special Instructions/OC Requirements:

Primary Deliverable Rank 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by: _____ Date: _____

Custody Seal Intact: Custody Seal No. _____

Ver 05/06/2024

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7181-1
SDG Number: Eddy Co NM

Login Number: 7181
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

| Question | Answer | Comment |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | N/A | Refer to Job Narrative for details. |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7181-1
SDG Number: Eddy Co NM

Login Number: 7181
List Number: 2
Creator: Grandits, Corey

List Source: Eurofins Houston
List Creation: 10/03/24 11:36 AM

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 548472

CONDITIONS

| | |
|--|--|
| Operator: Aka Energy Group, LLC 125 Mercado St, Suite 201 Durango, CO 80301 | OGRID: 330743 |
| | Action Number: 548472 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By | Condition | Condition Date |
|--------------|--|----------------|
| shanna.smith | Pursuant to 19.15.30 NMAC AKA Energy Group must update the Stage 2 Abatement plan no later than May 5, 2026, that meets all of the requirements of 19.15.30.13 NMAC. | 2/4/2026 |
| shanna.smith | Transition from submitting annual monitoring and sampling reports to submitting quarterly monitoring and sampling reports. | 2/4/2026 |
| shanna.smith | Clarify why all site wells are not gauged and/or sampled on a schedule. | 2/4/2026 |
| shanna.smith | The release has not been fully delineated. Responsible party must fully delineate the site. | 2/4/2026 |
| shanna.smith | Monthly LNAPL recovery will commence until future remediation plans are approved in Stage 2 Abatement Plan. | 2/4/2026 |