COAL COMBUSTION RESIDUALS (CCR) GROUNDWATER MONITORING AND CORRECTIVE ACTION ANNUAL REPORT

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1.0 INTRODUCTION

1.1 SITE DESCRIPTION AND REGULATORY APPLICABILITY

The Choctaw Generation Limited Partnership, LLLP (Choctaw Generation) is located near the City of Ackerman in Choctaw County, Mississippi. Choctaw Generation is in north central Mississippi on a 170-acre site. Choctaw Generation is bounded on the south by Pensacola Road, and is about ½ mile west of US Highway 9. Figure 1 shows the location of the site. Choctaw Generation operates a single unit electrical generation facility designed to generate electricity for dispatch to the Tennessee Valley Authority (TVA) electrical system. The primary boiler fuel is lignite coal. As a result of combusting lignite coal, ash is created and must be disposed or re-purposed. Choctaw Generation owns and operates an existing Ash Management Unit (AMU) for the placement and disposal of ash. The AMU (or CCR unit) is located in the northeastern portion of the property and consists of three (3) cells, as shown in Figure 2. The CCR unit encompasses approximately 64 acres of the Choctaw Generation site.

The site is currently regulated by the Mississippi Department of Environmental Quality (MDEQ) Solid Waste Regulations and Solid Waste Permit No. SW0100040462. The site is now also required to comply with the Groundwater Monitoring and Corrective Action requirements of 40 CFR Part 257, Subpart D – Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments. As an existing CCR landfill, the site was required to be in compliance with the following groundwater monitoring requirements by October 17, 2017:

- Install a groundwater monitoring system as required by §257.91;
- Develop a groundwater sampling and analysis program to include selection of the statistical procedures to be used for evaluating groundwater monitoring data as required by §257.93;
- Initiate the detection monitoring program to include obtaining a minimum of eight (8) independent samples for each background and downgradient well as required by §257.94(b); and
- Evaluate groundwater monitoring data for statistically significant increases over background levels for the constituents listed in Appendix III of Subpart D as required by §257.94.

The Choctaw Generation groundwater monitoring system was completed in accordance with the groundwater monitoring performance standards of §257.91 by June 2016. The initial Choctaw Generation CCR unit groundwater monitoring system consisted of three (3) background or upgradient wells and eight (8) downgradient wells. A Groundwater Monitoring Plan was developed in August 2016 in accordance with the groundwater sampling and analysis program requirements of §257.93. The Groundwater Monitoring Plan was updated in January 2019 to address an additional well installed at the site. The current Groundwater Monitoring Plan is available in the Choctaw Generation Operating Record and CCR Web Site. Sampling of the groundwater wells is conducted in accordance with the most current version of the

Groundwater Monitoring Plan. Eight (8) independent samples were collected and analyzed prior to October 17, 2017, initiating the groundwater monitoring program at the site.

Over time, wells have been replaced, added, and removed due to compromised well integrity as well as change in monitoring requirements. These changes are discussed further in Section 3.0. The current Choctaw Generation CCR unit groundwater monitoring system consists of three (3) background or upgradient wells and seven (7) downgradient wells which ensure complete coverage of the CCR unit. A facility diagram showing the monitoring well locations is included as Figure 2.

1.2 ANNUAL REPORT REQUIREMENTS

Choctaw Generation is required to prepare an annual groundwater monitoring and corrective action report (the Annual Report) no later than January 31, 2018, and annually thereafter, and place the report in the Operating Record. The Annual Report is also made available on the CCR Web Site within 30 days of filing the report in the Operating Record. The Annual Report must be maintained in the Operating Record and on the CCR Web Site for at least five (5) years.

Per §257.90(e), the Annual Report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. At a minimum, the Annual Report must contain the following information, to the extent available:

- A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- Other information required to be included in the annual report as specified in §§257.90 through 257.98.

- A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:

    - At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;
    - At the end of the current annual reporting period whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;
    - If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to the part pursuant to §257.94(e);
        - Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
        - Provide the date when the assessment monitoring program was initiated for the CCR unit.
    - If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to §257.95(g) include all of the following:
        - Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
        - Provide the date when the assessment of corrective measures was initiated for the CCR unit;
        - Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
        - Provide the date when the assessment of corrective measures was completed for the CCR unit.
    - Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of the remedy selection; and
    - Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

To comply with the requirements above, a map of the CCR unit and all upgradient and downgradient monitoring wells that are part of the current groundwater monitoring system are shown on Figure 2. Section 2 contains an overview and discussion of the status and any transition between monitoring programs (i.e., detection monitoring versus assessment monitoring) and the reason such monitoring program is in place. A discussion of the current monitoring well system and any monitoring wells installed or decommissioned is provided in Section 3.0. A summary of the monitoring data obtained during the annual reporting period is provided in Section 4.0. Section 5.0 presents additional information required by §§257.90 through 257.98 to be included in the Annual Report and which is not already addressed in the prior sections. Finally, Section 6.0 summarized actions completed during the reporting year and projects key activities planned for the following reporting year.

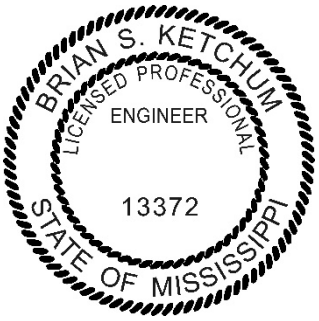
1.3 PROFESSIONAL ENGINEER CERTIFICATION

The undersigned Registered Professional Engineer is familiar with the requirements of 40 CFR Part 257, Subpart D and certifies that the Groundwater Monitoring and Corrective Action Annual Report was prepared under his/her direct supervision, in accordance with the requirements of 40 CFR 257.90 through 257.98. The undersigned Registered Professional Engineer certifies under penalty of the law that all information and statements provided in this report (including attachments), based on information and belief formed after reasonable inquiry, are true, accurate, and complete.

1/30/2022

Brian S. Ketchum, PE
Registration Number: 13372
State of Mississippi

Date Signed



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2.0 OVERVIEW: DETECTION AND ASSESSMENT MONITORING

Choctaw Generation began the reporting year and is currently subject to the Assessment Monitoring Program requirements of §257.95, and groundwater monitoring as required by this program is discussed in Section 4.0. A description of both the Detection Monitoring Program and Assessment Monitoring Program is provided below and includes a history of the monitoring as well any changes that occurred during the previous calendar year.

2.1 DETECTION MONITORING PROGRAM

For existing CCR landfills, including the Choctaw Generation AMU, a minimum of eight (8) independent samples from each background and downgradient well must be collected and analyzed for the constituents listed in Appendix III and Appendix IV of 40 CFR 257, Subpart D by no later than October 17, 2017. These constituents are listed in Tables 3-1 and 3-2. After the eight (8) initial sampling events are completed to develop background data, the detection monitoring must be performed on a semiannual basis during the active life of the CCR unit and the post-closure period unless assessment monitoring is triggered.

In accordance with the requirements of the Detection Monitoring Program in §257.94(b), one (1) sample from each background (or upgradient) and downgradient well was analyzed for the seven (7) parameters in Appendix III on February 6-7, 2018. An evaluation of these results indicated statistically significant increases (SSI) above the prediction limits established during background monitoring for the following parameters in the associated wells: chloride (MW-9, MW-12, and MW-16), fluoride (MW-9 and OW-2), sulfate (CCR-3, MW-9, MW-12, MW-16, and OW-2), and TDS (CCR-3, MW-9, and MW-16). Therefore, the requirements of the Assessment Monitoring Program were triggered.

2.2 ASSESSMENT MONITORING PROGRAM

Due to SSI exceedances determined during the initial detection monitoring event of February 6-7, 2018, Choctaw Generation triggered the Assessment Monitoring Program under §257.95. Choctaw Generation conducted the initial annual assessment monitoring event on May 15-16, 2018 for all Appendix IV constituents. Choctaw Generation then conducted the first semiannual assessment monitoring event on September 10-11, 2018 and the subsequent semiannual assessment monitoring event on March 19-20, 2019 for all Appendix III constituents and the ten (10) Appendix IV constituents previously detected during the annual Appendix IV monitoring event. The annual monitoring for all Appendix IV constituents was conducted again on May 29-30, 2019. Based on the sampling results, twelve (12) Appendix IV constituents were detected, adding selenium and molybdenum to the Appendix IV constituents to be monitored during semiannual assessment monitoring events. The next two (2) semiannual assessment monitoring events were conducted on September 10-11, 2019 and March 25-26, 2020. These events included sampling for all Appendix III constituents and those Appendix IV constituents detected during the 2019 annual monitoring

event. The next annual monitoring for all Appendix IV constituents was conducted on May 18, 2020, in which no new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. The next two (2) semiannual assessment monitoring events were conducted on September 28, 2020 and March 15-16, 2021. These events included sampling for all Appendix III constituents and those Appendix IV constituents detected during the 2020 annual monitoring event. The next annual monitoring for all Appendix IV constituents was conducted on May 26, 2021, in which no new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. Although the 2021 annual monitoring event is required to include Appendix IV constituents only, the laboratory analyzed the samples for boron and calcium (Appendix III) in addition to all Appendix IV constituents. Therefore, these results are included as part of this annual report, and the detected Appendix IV constituents used for subsequent semiannual events in addition to all Appendix III constituents. All current Appendix IV constituents that are sampled during the semiannual assessment monitoring events are listed in Section 4.3. The second semiannual assessment monitoring event for 2021 was conducted on September 8, 2021 and included sampling for all Appendix III constituents and those Appendix IV constituents detected during the 2021 annual monitoring event.

If the concentrations of all constituents listed in Appendix III and Appendix IV are shown to be at or below background concentrations for two consecutive monitoring events, Choctaw Generation may return to detection monitoring. If the concentration of any Appendix III or IV constituent is verified to be above the background values, but all concentrations are below the GWPS, Choctaw Generation must continue assessment monitoring. If one or more Appendix IV constituents are detected at a statistically significant level (SSL) above the GWPS in any monitoring event, Choctaw Generation must implement correction actions. GWPS for all constituents detected during the initial and subsequent assessment monitoring events were established per the procedures in §257.95(h). The Appendix III and Appendix IV results from the sampling conducted during the reporting period, the background concentrations (or “prediction limits”) established under §257.94(b), and the GWPS established under §257.95(d)(2) are included as Appendix D of the Annual Report.

Due to a verified statistically significant increase (SSI) of Appendix IV constituents above the GWPS (lithium in monitoring wells CCR-3 and MW-9 and cobalt in monitoring wells MW-9, MW-12, and MW-15), Choctaw Generation initiated an assessment of corrective measures on January 30, 2019. The Assessment of Corrective Measures (ACM) Report was completed on June 29, 2019, after a 60-day extension.

After review of the monitoring analytical data from the 2019 period, trends in groundwater concentration led to the prospect that the detection of lithium, cobalt, beryllium (not verified), and molybdenum (not verified) at a SSL above the GWPS could have been from an alternate source rather than a potential release of the

CCR unit or associated AMU basin. As discussed in Section 5.2, An Alternate Source Demonstration (ASD) was then successfully completed on December 17, 2019, providing an evidential conclusion that cobalt and lithium detected at SSLs were indeed a result of an alternate source. Due to the successful ASD, Choctaw Generation immediately ceased and discontinued corrective measure activities and continued assessment monitoring. Beryllium was then detected at a SSL above the GWPS in MW-9 during the 2020 annual assessment monitoring event and verified in the second semiannual assessment monitoring event on September 28, 2020. After research and review of analytical data, the ASD was then revised on August 20, 2020 to successfully address beryllium. Therefore, Choctaw Generation has continued in assessment monitoring.

3.0 GROUNDWATER MONITORING SYSTEM

3.1 CURRENT GROUNDWATER MONITORING SYSTEM

The owner or operator of a CCR unit must install a groundwater monitoring system that consists of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from the uppermost aquifer. The system should accurately represent the quality of background groundwater that has not been affected by leakage from a CCR unit (i.e., upgradient wells). In addition, the system should accurately represent the quality of groundwater passing the waste boundary of the CCR unit (i.e., downgradient wells). The downgradient wells should be installed at the waste boundary to ensure detection of groundwater contamination in the uppermost aquifer. The number, spacing, and depths of groundwater monitoring wells within the system were determined based upon site-specific technical information that included an assessment of items such as:

- Aquifer thickness and groundwater flow direction; and
- Saturated and unsaturated geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer, including, but not limited to, thicknesses, stratigraphy, lithology, hydraulic conductivities, porosities and effective porosities.

The groundwater monitoring system must include a minimum number of monitoring wells necessary to meet the performance standards and information specified above. The direction of groundwater flow through the CCR unit is to the north-northwest, which has been consistently determined through ongoing solid waste permit groundwater monitoring events. The locations for the monitoring wells were based upon the known direction of groundwater movement. The monitoring wells screen the uppermost laterally continuous aquifer below the base of ash fill. The base of ash fill is at an approximate elevation of 480 feet mean sea level (msl). The zone is screened and monitored at an approximate elevation of 470 feet msl, but varies across the site and through the unit.

The system must contain a minimum of at least one (1) upgradient and three (3) downgradient monitoring wells. The initial Choctaw Generation CCR unit groundwater monitoring system consisted of three (3) background or upgradient wells and eight (8) downgradient wells to ensure complete coverage of the CCR unit, which consists of three (3) ash disposal cells covering approximately 64 acres. An additional downgradient well was added in August 2018 (CCR-5) and three more downgradient wells were installed in May 2019 (i.e., CCR-6, CCR-7, and CCR-8). Additionally, one downgradient well (MW-16) was replaced in May 2019 by MW-17 due to subsidence of the surface soils, which compromised the well integrity. In 2020, MW-15 and MW-17 were removed due to compromised well integrity and the wells located on the mine (i.e., CCR-6, CCR-7, and CCR-8) were removed from the current groundwater system as they are no longer needed for delineation in response to corrective measure requirements. As a result, the current

CCR unit groundwater monitoring system consists of three (3) background or upgradient wells and seven (7) downgradient wells. A map showing the monitoring well locations is included as Figure 2, and a summary of the current wells is included as Table 2-1 below. Monitoring wells were installed according to the guidelines established in the 1994 USEPA Region IV RCRA Subtitle D Training Manual (SDTM, 1994), or other generally accepted guidelines, and are believed to meet the requirements of 40 CFR Part 257, Subpart D. For more detailed procedures related to the installation of the current groundwater monitoring system, refer to the CCR Groundwater Monitoring Plan available in the facility Operating Record and CCR Web Site.

Table 2-1: Groundwater Monitoring Wells

Well No.	Background or Down-gradient	Elevation* (ft)	Well Depth (ft)	Well Dia. (inches)
CCR-2	Downgradient	542.50	84.50	4
CCR-3	Downgradient	504.78	53.00	4
CCR-4	Downgradient	505.68	53.00	4
CCR-5	Downgradient	470.46	34.55	4
MW-7	Background (Upgradient)	571.76	56.92	4
MW-9	Downgradient	480.04	21.74	4
MW-12	Downgradient	474.19	19.09	4
MW-13	Background (Upgradient)	584.48	106.00	4
MW-14	Background (Upgradient)	593.84	60.97	4
OW-2	Downgradient	489.40	27.05	4

*Elevations were re-surveyed on November 14, 2019. Updated elevations will be used to determine groundwater elevation in subsequent monitoring events.

Sections 3.2 and 3.3 discuss changes to the groundwater monitoring system that took place during the reporting period.

3.2 MONITORING WELL INSTALLATION

There were no new wells installed during the 2021 period. For any future well installations, MDEQ will be notified of the groundwater installation project using a State Well Report along with a Soil Boring Log and a Monitoring Well Schematic for each of the groundwater monitoring wells installed.

3.3 MONITORING WELL DECOMMISSIONING

Monitoring wells must be maintained and appropriately cased in a manner that maintains the integrity of the monitoring well borehole throughout the life of the monitoring program. As noted in Section 3.1, the integrity of downgradient wells MW-15 and MW-17 were compromised during the 2020 period. The

monitoring well plug and abandonment project for these wells was then conducted on August 26, 2021 in accordance with the Mississippi water well plugging guidelines, and the well abandonment/ decommissioning forms were submitted to MDEQ on August 30, 2021.

4.0 GROUNDWATER MONITORING DATA

4.1 SAMPLING REQUIREMENTS

The monitoring well samples collected for laboratory analysis along with the duplicate samples and field blanks were submitted to Micro-Methods Laboratories in Ocean Springs, Mississippi. Sampling was conducted in accordance with the CCR Groundwater Monitoring Plan. The samples were analyzed for constituents listed in Appendix III and/or Appendix IV of 40 CFR 257, Subpart D (depending on the type of monitoring event) as listed in Tables 4-1 and 4-2 below. Metals were analyzed as total recoverable metals from unfiltered samples.

Table 4-1: Appendix III Constituents

40 CFR 257, Subpart D, Appendix III – Constituents for Background and Subsequent Detection and Assessment Monitoring					
Parameter	Analytical Method	Container		Preservative	Holding Time
Boron	200.7	P	500mL	NA	6 months
Calcium	200.7	P	500mL	NA	6 months
Chloride	4500-Cl-B	P	1000mL	NA	28 days
Fluoride	4500-F-D	P	1000mL	NA	28 days
pH	Measured and monitored in the field.				
Sulfate	4110B	P	1000mL	NA	28 days
TDS	2540C	P	1000mL	NA	7 days

Table 4-2: Appendix IV Constituents

40 CFR 257, Subpart D, Appendix IV – Constituents for Background and Assessment Monitoring					
Parameter	Analytical Method	Container		Preservative	Holding Time
Antimony	200.8	P	500mL	NA	6 months
Arsenic	200.8	P	500mL	NA	6 months
Barium	200.8	P	500mL	NA	6 months
Beryllium	200.8	P	500mL	NA	6 months
Cadmium	200.8	P	500mL	NA	6 months
Chromium	200.8	P	500mL	NA	6 months
Cobalt	200.8	P	500mL	NA	6 months
Fluoride	4500-F-C	P	1000mL	NA	28 days
Lead	200.8	P	500mL	NA	6 months
Lithium	200.7	P	500mL	NA	6 months
Mercury	245.1	P	500mL	NA	28 days
Molybdenum	200.8	P	500mL	NA	6 months
Selenium	200.8	P	500mL	NA	6 months

40 CFR 257, Subpart D, Appendix IV – Constituents for Background and Assessment Monitoring					
Parameter	Analytical Method	Container		Preservative	Holding Time
Thallium	200.8	P	500mL	NA	6 months
Radium 226/228	901.1	P	1000mL	NA	NA

T = Teflon, P = Plastic, G = Glass, NA = Not Applicable

4.2 GROUNDWATER ELEVATION AND FLOW

Groundwater elevation is measured in each monitoring well immediately prior to purging each time groundwater is sampled. Table 4-3 provides a summary of the groundwater elevation recorded for each well during each of the monitoring events. A potentiometric surface map was developed for each monitoring event based on the measured static water levels and the top-of-case (TOC) elevations. Also, the rate of groundwater flow is determined for each event and the direction of flow is summarized in the table and provided on the potentiometric surface maps included in Appendix A. Groundwater flow velocity (v) is estimated using the hydraulic conductivity (K) of the groundwater zone, the effective porosity (η_e), and the hydraulic gradient (dh/dl). The groundwater flow velocity in feet/year is estimated using the following equation: $v = \frac{K}{\eta_e}\left(\frac{dh}{dl}\right)$.

Conductivity and porosity are dependent on the soil type in the saturated zone. Based on boring logs, the soils in the screened saturated zone are predominantly silt, clay, and silty-clay units. These Clayey Wilcox sediments were investigated and found to have hydraulic conductivities generally less than 1.0 x 10^{-6} cm/sec, and in many cases 1.0 x 10^{-8} cm/sec or less, as noted in the Special/Industrial Waste Permit Application prepared by Malcolm Pirnie (March 1998). As a conservative measure of groundwater flow the highest permeability measured at site of 2.0 x 10^{-5} cm/sec has been used. An effective porosity of 0.44 was used based on a mix of silty clay and clay of varying plasticity found in the saturated zone. Previously, the hydraulic gradient was determined for each monitoring event using the difference in groundwater elevations at upgradient monitoring well, MW-14, and downgradient monitoring well, MW-15, which are approximately 3,025 feet apart. Since the integrity of the downgradient well, MW-15, was compromised, the hydraulic gradient is now determined for each monitoring event using an average of the difference in groundwater elevations at upgradient well, MW-14, and downgradient monitoring well, CCR-2, which are approximately 1,800 feet apart, and of the difference in groundwater elevations at upgradient well, MW-13, and downgradient monitoring well, CCR-4, which are approximately 1,860 feet apart.

As noted in Table 4-3 and from the potentiometric surface maps (provided in Appendix A), groundwater in the vicinity of the CCR unit flows north-northwest. Also, as noted during the background sampling period, groundwater elevation changed very little in each monitoring well sampled during the 2021 reporting period, indicating that seasonal variability does not significantly impact groundwater at the site. Groundwater flow

is relatively slow due to the low hydraulic conductivity of the soils and was calculated to be 1.5 feet per year based on the 2021 data. This is consistent with the flows calculated for previous monitoring events, as shown in Table 4-3.

4.3 GROUNDWATER SAMPLING RESULTS

The analytical results from the collected samples, the chain-of-custody, and the laboratory quality assurance and quality control (QA/QC) information are provided in Appendix B. In addition to the groundwater samples taken from each of the monitoring wells, a duplicate sample and field blank were collected and analyzed for the required constituents. Temperature, pH, conductivity, turbidity, purge volume, and elapsed purge time were monitored while purging each well. The field data collected while purging and sampling each well using the low stress purging and sampling methodology is included in Appendix C. The data includes monitored field parameters (pH, temperature, turbidity, conductivity), water levels, well depth, drawdown, purge rate, purge volume, and purge time.

The summary of results for sampling conducted during the reporting year is available in Appendix D. For those constituents not detected during a given monitoring event, the value is indicated as “less than” (or <) the minimum reporting level (MRL). Results from the upgradient wells were used to establish the background groundwater quality for each constituent, which is the interwell prediction limit determined using the approved statistical procedures. Because statistically significant increases (SSI) of constituents were verified during the initial detection monitoring event in 2018, GWPS were established per the requirements of §257.95(d)(2) for Appendix IV constituents and are compared to current and future sampling results.

A semiannual assessment monitoring event was conducted on March 15-16, 2021. During this event, all Appendix III constituents and those Appendix IV constituents detected during monitoring conducted May 18, 2020, were analyzed. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Beryllium: MW-9
- Cobalt: CCR-3, CCR-5, MW-9, and MW-12
- Lithium: CCR-3, CCR-5, and MW-9

The annual monitoring for all Appendix IV constituents, required by §257.95(b), was conducted May 26, 2021. As mentioned in Section 2.2, although the annual monitoring event is required to include Appendix IV constituents only, the laboratory analyzed the samples for boron and calcium (Appendix III) in addition to all Appendix IV constituents. Therefore, these results are included as part of this annual report, and the detected Appendix IV constituents used for subsequent semiannual events in addition to all Appendix III constituents. Based on these results, the following Appendix IV constituents will be monitored during the next two semiannual assessment monitoring events:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Molybdenum
- Selenium
- Radium 226 and 228 combined

Additionally, the results from this annual event were compared to the GWPS. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Beryllium: MW-9
- Cobalt: CCR-3, CCR-5, MW-9, and MW-12
- Lithium: CCR-3 and MW-9

The next semiannual assessment monitoring event was conducted on September 8, 2021. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Cobalt: CCR-5, MW-9, and MW-12
- Lithium: CCR-3, CCR-5, and MW-9

Although antimony, cadmium, chromium, lead, and molybdenum were not detected in the 2021 annual monitoring event, these Appendix IV constituents will still be monitored during the semiannual events since they were detected in previous assessment monitoring events. Antimony, cadmium, chromium, mercury, molybdenum, and thallium were not detected in any of the monitoring events during the 2021 period. Arsenic was detected in CCR-5 in the first two events. The detected concentrations were an order of magnitude below the GWPS, and the location of the well, the property boundary, suggests that arsenic is not a result of site operations. Barium is naturally occurring and has been detected in all monitoring wells, both upgradient and downgradient. However, the results have generally been at least an order of magnitude lower than the GWPS and have shown decreasing trends in most wells. Fluoride was detected in one of the three upgradient wells, MW-7, as well as three (3) of the downgradient wells, CCR-3, MW-9, and OW-2. Therefore, there may be sources of naturally occurring fluoride in the area. Concentrations of fluoride in both upgradient and downgradient wells are approximately an order of magnitude below the

GWPS, with trends varying across the wells. Lead was detected in one (1) monitoring well, MW-9, and the concentration was an order of magnitude below the GWPS. Selenium was detected during one (1) monitoring event in two (2) downgradient wells, CCR-5 and MW-9. The concentrations were an order of magnitude below the GWPS and were below the detection limit during the 2021 semiannual monitoring events.

Cobalt exceeded the GWPS during the 2021 assessment monitoring events in four (4) downgradient wells, including CCR-3, CCR-5, MW-9, and MW-12. Cobalt has been prevalent in these wells, including the background sampling. Lithium exceeded the GWPS three (3) wells, CCR-3, CCR-5, and MW-9, during the both 2021 semiannual assessment monitoring events, and in two (2) wells, CCR-3 and MW-9, during the annual assessment monitoring event in May. The concentrations of lithium in CCR-3 declined over the 2021 period while the concentration in MW-9 is trending down compared to historical concentrations. Lithium concentrations in CCR-5 appear to be relatively stable and detected concentrations are only slightly above the GWPS. Lithium was also detected in OW-2 during the last assessment monitoring event, but the detection level was below both the prediction limit and the GWPS for this constituent. Beryllium exceeded the GWPS, which is only 5 ppb, in MW-9 in the first two (2) assessment monitoring events of 2021. The beryllium concentration in MW-9 dropped below the GWPS for the second semiannual monitoring event and has not been verified or detected in any other well during any monitoring event.

Table 4-3: Groundwater Elevation (feet) and Flow Rate (feet/yr)

Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2	Flow Rate	Flow Direction
Background Monitoring																		
7/26-27/16	488.60	473.59	478.46					538.60	471.49	466.92	499.10	564.91	477.50	480.26		476.80	1.4	NNW
8/22-23/16	488.63	473.33	478.41					538.03	471.74	466.97	498.85	563.94	477.19	480.49		476.50	1.3	NNW
9/12-13/16	488.22	472.96	478.36					538.02	470.97	466.09	498.82	563.12	476.74	480.15		476.20	1.3	NNW
10/17-18/16	488.05	472.69	478.61					537.93	471.17	465.56	498.48	560.56	476.19	479.24		476.00	1.3	NNW
11/9-10/16	487.69	472.41	478.16					537.52	471.32	465.45	497.83	559.08	475.78	479.10		475.50	1.3	NNW
11/28-29/16	487.55	472.38	478.17					536.13	471.47	465.97	497.60	560.51	476.16	479.61		475.64	1.3	NNW
2/8-9/17	488.17	474.06	478.95					537.95	473.34	471.27	498.21	563.49	478.87	481.70		477.60	1.3	NNW
3/29-30/17	488.36	474.82	478.81					537.74	472.44	470.17	498.58	565.88	478.83	486.60		477.40	1.4	NNW
Detection Monitoring																		
2/6-7/18	489.83	475.11	478.84					537.58	473.60	471.47	499.40	562.15	478.92	481.87		477.49	1.3	NNW
Assessment Monitoring																		
5/15-16/18	489.73	476.19	478.98					538.66	472.82	468.07	501.08	566.41	478.93	481.36		478.19	1.4	NNW
9/10-11/18	488.34	473.95	478.28	460.73				537.84	472.98	468.60	499.16	562.19	477.16	480.72		476.59	1.3	NNW
3/19-20/19(1)	491.92	479.69	481.38	463.41				538.06	482.28	470.24	521.24	565.69	480.70	NS		478.80	1.3	NNW
5/29-30/19(1)	491.62	478.76	480.84	462.75	459.91	487.14	462.79	538.47	471.56	466.67	521.42	565.63	480.20	NS	478.65	478.98	1.3	NNW
9/10-11/19(1)	491.28	479.91	480.43	462.02	458.71	487.01	462.04	538.35	470.61	466.33	521.15	565.16	478.83	NS	477.73	477.57	1.3	NNW
3/25-26/20(2)	493.83	479.8	481.27	463.93	NS	NS	NS	541.78	472.53	470.5	525.6	565.94	NS	NS	479.84	479.48	1.5	NNW
5/18/20(2)	491.75	477.25	480.78	463.05	NS	NS	NS	538.71	471.23	468.88	526.48	565.59	NS	NS	480.64	479.36	1.5	NNW
9/28/20(2)	493.95	478	480.41	463.57	NS	NS	NS	537.85	471.24	468.51	525.58	565.01	NS	NS	NS	478.59	1.5	NNW
3/15-16/21(2)	494.5	479.93	480.78	463.1	NS	NS	NS	537.61	471.54	469.19	525.68	565.52	NS	NS	NS	479.05	1.5	NNW
5/26/21(2)	494.45	479.28	479.9	462.75	NS	NS	NS	537.56	471.32	467.29	526.34	565.12	NS	NS	NS	478.94	1.5	NNW
9/8/201(2)	494.35	479.58	480.83	464.45	NS	NS	NS	536.84	472.46	468.89	525.55	565.33	NS	NS	NS	478.9	1.5	NNW

(1) TOC elevations were resurveyed on November 14, 2019 and groundwater elevations were revised using the correct TOC elevations.
(2) Flow rate calculated using an average hydraulic gradient between MW-14 and CCR-2 as well as MW-13 and CCR-4.

5.0 ADDITIONAL INFORMATION

5.1 ALTERNATIVE MONITORING FREQUENCY

Based on the availability of groundwater, an alternative monitoring frequency may be proposed under both the detection monitoring program and the assessment monitoring program per §§257.94(d) and 257.95(c), respectively. In lieu of semiannual sampling, sampling may be conducted less frequently but no less than annually. Choctaw Generation must obtain a certification from a qualified professional engineer stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of §§257.94(d) or 257.95(c). Choctaw Generation must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the Annual Report. *With this Annual Report, Choctaw Generation is not making an alternative monitoring frequency demonstration.*

5.2 DEMONSTRATION OF INVALID STATISTICALLY SIGNIFICANT INCREASE

Within 90 days of finding that any of the Appendix III or IV constituents have been detected at a statistically significant level, Choctaw Generation may demonstrate that a source other than the CCR unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Such demonstration is allowed by both the detection monitoring program and assessment monitoring program per §257.94(e)(2) and §257.95(g)(3), respectively. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer. If a successful demonstration is made, Choctaw Generation must continue monitoring in accordance with the detection or assessment monitoring program, as applicable. Choctaw Generation must also include the demonstration in the Annual Report, as well as the certification by a qualified professional engineer. *With this Annual Report, Choctaw Generation is not demonstrating that any additional constituents were detected at a SSL above the GWPS as a result from an alternate source.* A history of the ASD is provided below.

Sampling to evaluate the composition of the natural soil at the site was conducted on October 29, 2019, which included drilling soil borings in three (3) locations at the Choctaw Generation site. The samples were collected at a variety of depths ranging from four (4) to twenty (20) feet to capture the natural, differing geologies in the soil and material near and within the monitored aquifer. Based on review of the analytical results, the initial ASD was developed and certified on December 17, 2019, demonstrating that elevated lithium and cobalt concentrations above each GWPS were a result of natural variation in the groundwater quality as a result of the aquifer material rather than a potential release from the CCR unit. Beryllium was then detected above the GWPS in March 2020 and then verified in the following event in May of 2020. In response, the ASD was revised and certified on August 20, 2020, demonstrating that the elevated beryllium

concentration detected above the GWPS was a result of natural variation in the groundwater quality as a result of the aquifer material rather than a potential release from the CCR unit. The initial and revised ASD were submitted with each respective annual report and can be found in the Choctaw Generation Operating Record and on the CCR Website.

It should be noted, the molybdenum exceedance was never confirmed or verified upon resampling events; therefore, molybdenum is not believed to have exceeded the GWPS. As a result of the successful revised ASD, Choctaw Generation has continued in assessment monitoring.

5.3 TIME EXTENSION FOR CORRECTIVE MEASURES ASSESSMENT

An assessment of corrective measures must be completed within 90 days of finding any Appendix IV constituent has been detected at a statistically significant level exceeding the GWPS. A demonstration of need for up to an additional 60 days to complete this assessment may be made as a result of site-specific conditions or circumstances. Certification from a qualified professional engineer attesting that this demonstration is accurate must be provided, and both the demonstration and certification must be included in the Annual Report. *With this Annual Report, Choctaw Generation is not requesting additional time to assess corrective measures, since such assessment was not required during the period covered by the report.*

6.0 CONCLUSION

6.1 SUMMARY OF KEY ACTIONS COMPLETED

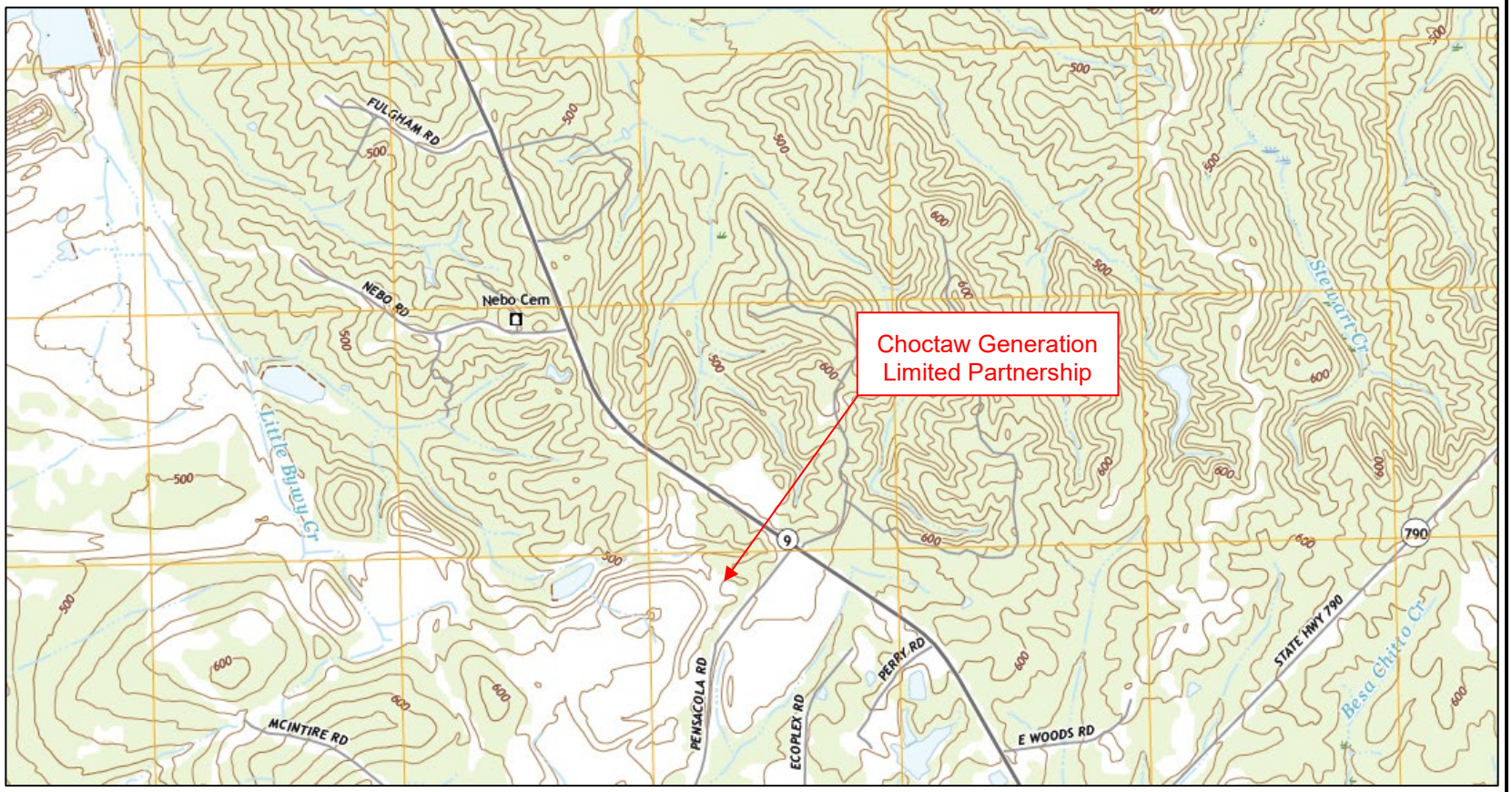
During the reporting period, two semiannual assessment monitoring events were conducted, revealing continued exceedances of the GWPS for cobalt, lithium, and beryllium. These constituent exceedances are detailed in the ASD. There were no new exceedances of the GWPS; therefore, assessment monitoring was continued. Additionally, monitoring wells MW-15 and MW-17 were properly decommissioned as described in Section 3.3.

6.2 KEY ACTIVITIES FOR UPCOMING YEAR

During calendar year 2022, Choctaw Generation anticipates conducting at least two (2) semiannual monitoring events and an annual Appendix IV monitoring event in accordance with the assessment monitoring program as outlined by §257.95(g). If any constituent, other than those addressed by the revised ASD, is detected at a SSL above the GWPS, the ASD will be amended or corrective measures will be initiated to address the constituents of concern.

FIGURE 1

SITE LOCATION MAP



Legend:

N
W E
S

Source:
USGS US Topo (12/30/2020)

Drawn By: CBG	Checked By: BSK
Date: 1/17/2022	Scale: 1:24,000
Project No.:	Drawing No: N/A

Choctaw Generation Limited Partnership
2391 Pensacola Road
Ackerman, Mississippi

ECS
ENVIRONMENTAL COMPLIANCE & SAFETY, INC.
P.O. Box 356
Sherman, Mississippi 38869
(662) 840-5945

Figure 1: Site Location Map

FIGURE 2

FACILITY DIAGRAM

ECS
ENVIRONMENTAL COMPLIANCE & SAFETY, INC.
P.O. Box 356
Sherman, MS 38869
(662) 840-5945

Choctaw Generation Limited Partnership, L.L.L.P.
2391 Pensacola Road
Ackerman, Mississippi

Facility Diagram

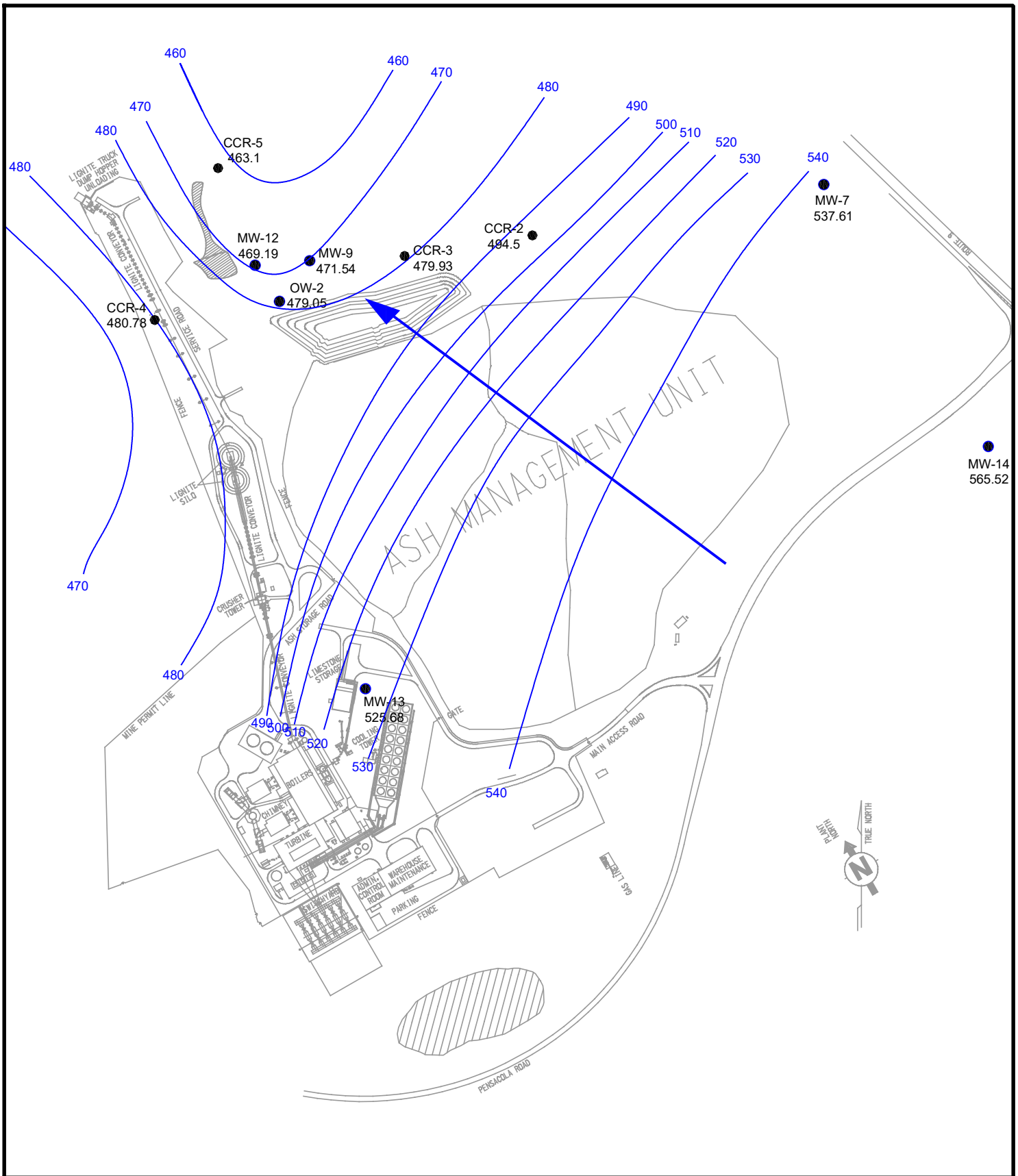
Figure 2 | Project No.:

Legend:
Monitoring Well MW-14 E=593.84

Scale: Not Determined
Drawn By: JTB | Revised By: CBG
Date: 8/27/2018 | Date: 1/17/2022

APPENDIX A

POTENTIOMETRIC SURFACE MAPS



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P.O. Box 356
Sherman, MS 38869
(662) 840-5945

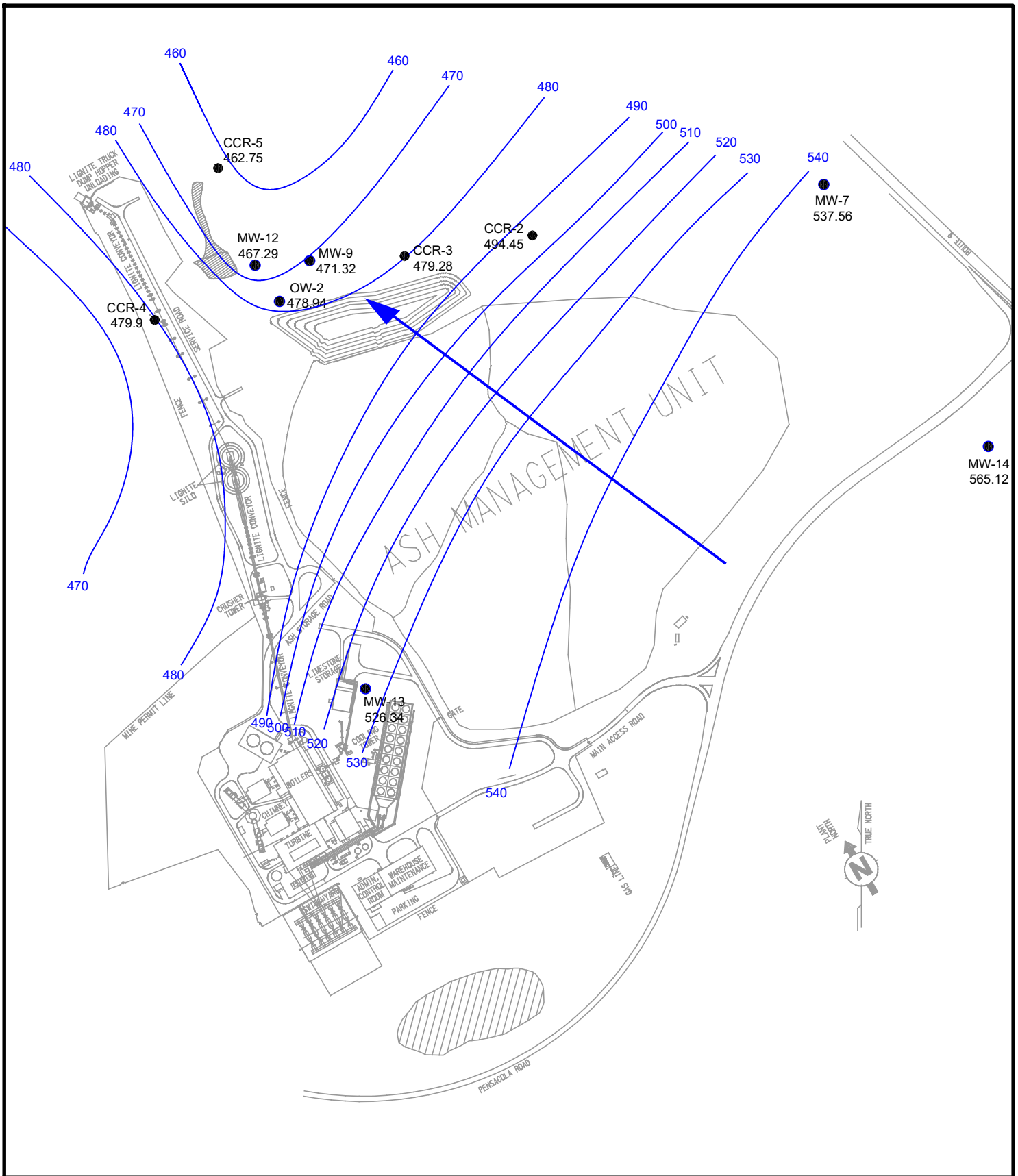
Choctaw Generation Limited Partnership, L.L.L.P.
2391 Pensacola Road
Ackerman, Mississippi

Potentiometric Surface Map (March 2021 GW Event)

Figure 1 | Project No.:

Legend:
Monitoring Well Designation and Groundwater Elevation (feet) — MW-7 537.61
Groundwater Elevation Contours (ft) — 500

Scale: NTS
Drawn By: GJL (modified by CBG)
Date: 1/18/2022



ECS
ENVIRONMENTAL COMPLIANCE & SAFETY, INC.

P.O. Box 356
Sherman, MS 38869
(662) 840-5945

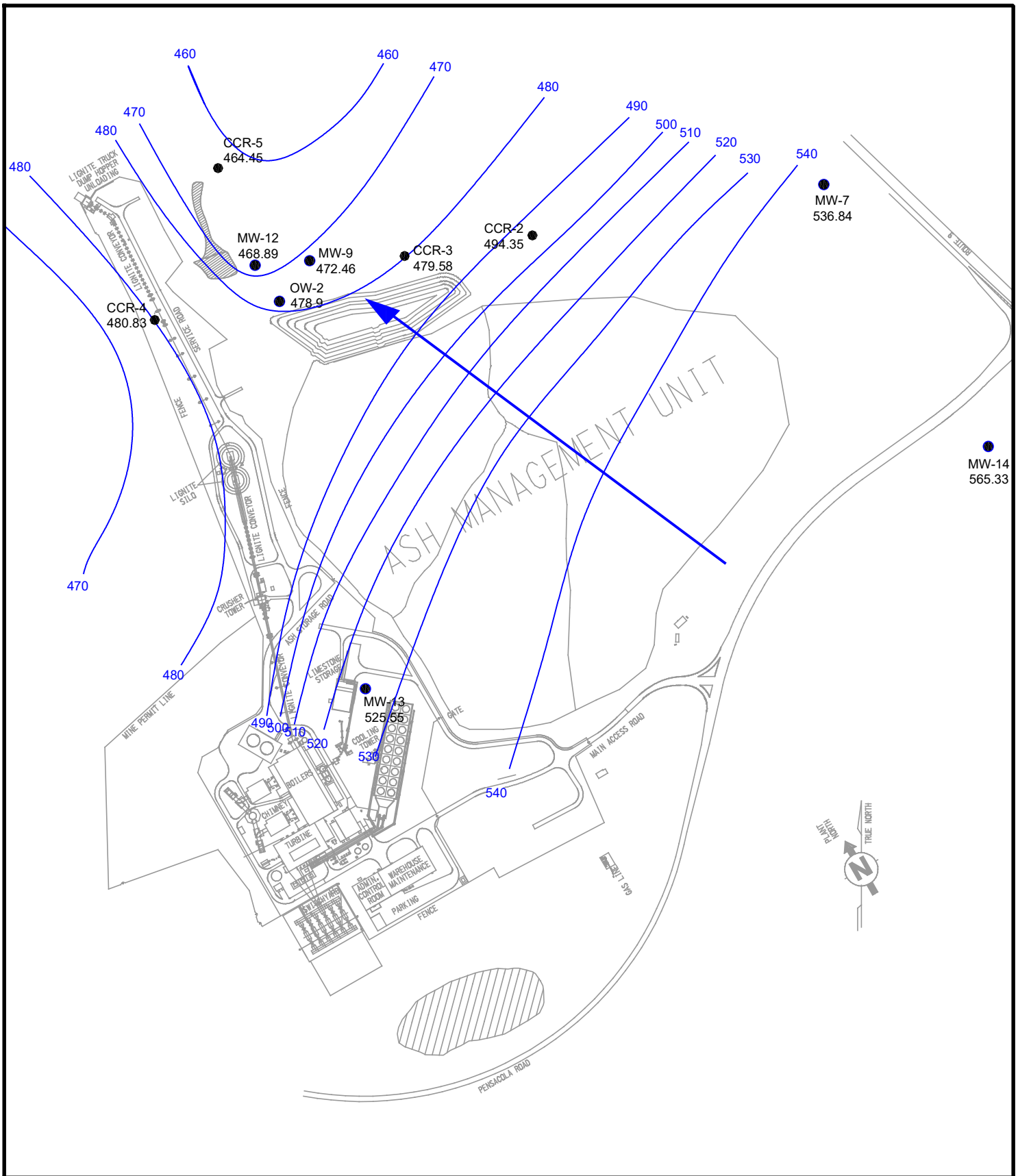
Choctaw Generation Limited Partnership, L.L.L.P.
2391 Pensacola Road
Ackerman, Mississippi

Potentiometric Surface Map (May 2021 GW Event)

Figure 1 | Project No.:

Legend:
Monitoring Well Designation and Groundwater Elevation (feet) — MW-7 537.56
Groundwater Elevation Contours (ft) — 500

Scale: NTS
Drawn By: GJL (modified by CBG)
Date: 1/18/2022



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ENVIRONMENTAL COMPLIANCE & SAFETY, INC.

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Sherman, MS 38869
(662) 840-5945

Choctaw Generation Limited Partnership, L.L.L.P.
2391 Pensacola Road
Ackerman, Mississippi

Potentiometric Surface Map (September 2021 GW Event)

Figure 1 | Project No.:

Legend:
Monitoring Well Designation and Groundwater Elevation (feet) — MW-7 536.84
Groundwater Elevation Contours (ft) — 500

Scale: NTS
Drawn By: GJL (modified by CBG)
Date: 1/18/2022

APPENDIX B

ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

April 13, 2021

Jim Ward

Work Order # : 2103321

Purchase Order #:

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735
RE: CGLP CCR

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 03/17/2021 10:00. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2103321-01	Water	03/15/2021 17:26	*Kirk Shelton*	03/17/2021 10:00
OW-2	2103321-02	Water	03/15/2021 16:51	*Kirk Shelton*	03/17/2021 10:00
MW-13	2103321-03	Water	03/16/2021 11:56	*Kirk Shelton*	03/17/2021 10:00
MW-7	2103321-04	Water	03/16/2021 13:40	*Kirk Shelton*	03/17/2021 10:00
MW-14	2103321-05	Water	03/16/2021 14:20	*Kirk Shelton*	03/17/2021 10:00
Field Blank	2103321-06	Water	03/16/2021 13:33	*Kirk Shelton*	03/17/2021 10:00
Duplicate	2103321-07	Water	03/15/2021 00:00	*Kirk Shelton*	03/17/2021 10:00
MW-12	2103321-08	Water	03/15/2021 16:20	*Kirk Shelton*	03/17/2021 10:00
CCR-2	2103321-09	Water	03/15/2021 18:05	*Kirk Shelton*	03/17/2021 10:00
CCR-3	2103321-10	Water	03/15/2021 18:35	*Kirk Shelton*	03/17/2021 10:00
CCR-4	2103321-11	Water	03/16/2021 10:43	*Kirk Shelton*	03/17/2021 10:00
CCR-5	2103321-12	Water	03/16/2021 09:40	*Kirk Shelton*	03/17/2021 10:00

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

Sample Receipt Conditions

Date/Time Received: 3/17/2021 10:00:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 3/17/2021 10:33:00AM
Cooler ID: #1109

Shipped by: Fed Ex
Submitted by: Kirk Shelton
Logged by: Sarah E. Tomek
Receipt Temperature: 0.6 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

Cooler ID: #1119

Receipt Temperature: 0.4 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

Cooler ID: #1122

Receipt Temperature: 1.3 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/13/2021 13:02

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Total Metals-EPA 200.7 Rev 4.4

Qualifiers:

L2 LCS and/or LCSD Recovery below acceptance limit.

Lithium 610.362 [Axial]

1C19035-BSD1

Total Metals-EPA 200.8 Rev 5.4

Qualifiers:

CC-01 CCV exceeds acceptance limits. Sampe results reported from this calibration were below the reporting limits.

Selenium [NG]

2103321-07[Duplicate], 2103321-08[MW-12], 2103321-10[CCR-3], 2103321-11[CCR-4], 2103321-12[CCR-5]

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

MW-9

2103321-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**466**	10.0	mg/L	20.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 14:12	SM 4110B 2011	
Sulfate as SO4	**164**	25.0	"	5.0	"	DLW	"	03/18/2021 01:21	"	
Fluoride	**0.51**	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**1202**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.094**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:30	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**61.2**	0.100	"	2.0	"	CLV	"	03/22/2021 13:56	"	
Lithium 610.362 [Axial]	**0.051**	0.040	"	1.0	"	CLV	"	03/22/2021 12:30	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 17:09	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	**0.00594**	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	**0.0237**	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	**0.00191**	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

OW-2

2103321-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**43.5**	2.00	mg/L	4.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 14:43	SM 4110B 2011	
Sulfate as SO4	**118**	20.0	"	"	"	DLW	"	"	"	
Fluoride	**0.26**	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**347**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.047**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:34	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**30.8**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/22/2021 23:18	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

MW-13

2103321-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.73**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 15:15	SM 4110B 2011	
Sulfate as SO4	**5.14**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**168**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.161**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:37	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**18.1**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/22/2021 23:24	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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04/13/2021 13:02

MW-7

2103321-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.04**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 17:23	SM 4110B 2011	
Sulfate as SO4	**36.6**	10.0	"	2.0	"	DLW	"	03/17/2021 17:55	"	
Fluoride	**0.23**	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**186**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.076**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:41	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**31.7**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/22/2021 23:38	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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04/13/2021 13:02

MW-14

2103321-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**18.6**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 18:26	SM 4110B 2011	
Sulfate as SO4	**10.2**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1C18044	CDV	03/26/2021 10:22	03/26/2021 10:22	SM 4500-F C 2011	
Total Dissolved Solids	**82**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.012**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:08	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.571**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 16:24	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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Field Blank

2103321-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**2.01**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 18:58	SM 4110B 2011	
Sulfate as SO4	ND	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**31**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:45	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**2.31**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/22/2021 23:44	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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Duplicate

2103321-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**19.5**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 20:34	SM 4110B 2011	
Sulfate as SO4	**7.90**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1C18044	CDV	03/26/2021 10:22	03/26/2021 10:22	SM 4500-F C 2011	
Total Dissolved Solids	**86**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.013**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:48	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.608**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 00:17	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	CC-01

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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MW-12

2103321-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**56.4**	2.00	mg/L	4.0	1C18040	DLW	03/17/2021 14:12	03/18/2021 11:36	SM 4110B 2011	
Sulfate as SO4	**79.6**	20.0	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**285**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.233**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:59	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**29.4**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 00:23	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	**0.00929**	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	CC-01

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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CCR-2

2103321-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**8.29**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 22:10	SM 4110B 2011	
Sulfate as SO4	**15.5**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**143**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.110**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 12:19	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**13.8**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 16:50	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

CCR-3

2103321-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**4.53**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 22:42	SM 4110B 2011	
Sulfate as SO4	**261**	50.0	"	10.0	"	DLW	"	03/18/2021 12:48	"	
Fluoride	ND	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**465**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.084**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 13:03	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**39.9**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.072**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 00:37	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	**0.0138**	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	CC-01

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Project: CGLP CCR
Project Number: [none]
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Reported:
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CCR-4

2103321-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**7.73**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/17/2021 23:45	SM 4110B 2011	
Sulfate as SO4	**31.5**	10.0	"	2.0	"	DLW	"	03/18/2021 13:20	"	
Fluoride	ND	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**208**	1	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.170**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 13:07	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**25.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 00:43	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	**0.00430**	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	CC-01

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Project: CGLP CCR
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Project Manager: Jim Ward

Reported:
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CCR-5

2103321-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**6.87**	0.500	mg/L	1.0	1C18040	DLW	03/17/2021 14:12	03/18/2021 00:17	SM 4110B 2011	
Sulfate as SO4	**1290**	250	"	50.0	"	DLW	"	03/18/2021 00:49	"	
Fluoride	ND	0.22	"	1.0	1C18044	CDV	03/18/2021 09:50	03/18/2021 14:44	SM 4500-F C 2011	
Total Dissolved Solids	**1362**	2	"	"	1C17048	DLW	03/17/2021 12:45	03/19/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.038**	0.010	mg/L	1.0	1C19035	CLV	03/19/2021 08:50	03/22/2021 13:10	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	**0.089**	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**161**	0.250	"	5.0	"	CLV	"	03/22/2021 14:00	"	
Lithium 610.362 [Axial]	**0.097**	0.040	"	1.0	"	CLV	"	03/22/2021 13:10	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1C19034	ABT	"	03/23/2021 00:50	EPA 200.8 Rev 5.4	
Arsenic [NG]	**0.00316**	0.00200	"	"	"	ABT	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Cobalt [He]	**0.0299**	0.00100	"	"	"	ABT	"	"	"	
Lead [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	ABT	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	ABT	"	"	"	CC-01

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/13/2021 13:02

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C17048 - Default Prep GenChem											
Blank (1C17048-BLK1)											
Total Dissolved Solids	3/19/21 0:00	ND	1	mg/L							
LCS (1C17048-BS1)											
Total Dissolved Solids	3/19/21 0:00	125	1	mg/L	150		83.3	65-105			
LCS Dup (1C17048-BSD1)											
Total Dissolved Solids	3/19/21 0:00	122	1	mg/L	150		81.3	65-105	2.43	15	
Duplicate (1C17048-DUP1)			**Source: 2103316-01**								
Total Dissolved Solids	3/19/21 0:00	309	1	mg/L		313			1.29	10	
Duplicate (1C17048-DUP2)			**Source: 2103321-09**								
Total Dissolved Solids	3/19/21 0:00	140	1	mg/L		143			2.12	10	
Batch 1C18040 - Default Prep GenChem											
Blank (1C18040-BLK1)											
Chloride	3/18/21 1:53	ND	0.500	mg/L							
Sulfate as SO4	3/18/21 1:53	ND	5.00	"							
Blank (1C18040-BLK2)											
Chloride	3/18/21 8:42	ND	0.500	mg/L							
Sulfate as SO4	3/18/21 8:42	ND	5.00	"							
LCS (1C18040-BS1)											
Chloride	3/18/21 2:57	9.81	0.500	mg/L	10.0		98.1	86.3-109			
Sulfate as SO4	3/18/21 2:57	9.62	5.00	"	10.0		96.2	88-108			

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C18040 - Default Prep GenChem											
LCS (1C18040-BS2)											
Chloride	3/18/21 9:46	2.89	0.500	mg/L	3.00		96.5	86.3-109			
Sulfate as SO4	3/18/21 9:46	14.3	5.00	"	15.0		95.4	88-108			
LCS Dup (1C18040-BSD1)											
Chloride	3/18/21 3:29	9.77	0.500	mg/L	10.0		97.7	86.3-109	0.388	20	
Sulfate as SO4	3/18/21 3:29	9.64	5.00	"	10.0		96.4	88-108	0.239	20	
LCS Dup (1C18040-BSD2)											
Chloride	3/18/21 10:18	2.92	0.500	mg/L	3.00		97.2	86.3-109	0.792	20	
Sulfate as SO4	3/18/21 10:18	14.4	5.00	"	15.0		96.1	88-108	0.738	20	
Duplicate (1C18040-DUP1)			**Source: 2103321-03**								
Chloride	3/17/21 15:47	3.72	0.500	mg/L		3.73			0.242	20	
Sulfate as SO4	3/17/21 15:47	5.08	5.00	"		5.14			1.31	20	
Matrix Spike (1C18040-MS1)			**Source: 2103321-03**								
Chloride	3/17/21 16:19	24.2	0.500	mg/L	20.0	3.73	102	76.2-122			
Sulfate as SO4	3/17/21 16:19	25.6	5.00	"	20.0	5.14	103	74.1-129			
Matrix Spike Dup (1C18040-MSD1)			**Source: 2103321-03**								
Chloride	3/17/21 16:51	24.2	0.500	mg/L	20.0	3.73	102	76.2-122	0.0207	20	
Sulfate as SO4	3/17/21 16:51	25.7	5.00	"	20.0	5.14	103	74.1-129	0.0195	20	
Batch 1C18044 - Default Prep GenChem											
Blank (1C18044-BLK1)											
Fluoride	3/18/21 14:44	ND	0.22	mg/L							

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Project: CGLP CCR
Project Number: [none]
Project Manager: Jim Ward

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C18044 - Default Prep GenChem											
Blank (1C18044-BLK2)											
Fluoride	3/26/21 10:22	ND	0.22	mg/L							
LCS (1C18044-BS1)											
Fluoride	3/18/21 14:44	2.03	0.22	mg/L	2.00		102	83.3-107			
LCS (1C18044-BS2)											
Fluoride	3/26/21 10:22	2.04	0.22	mg/L	2.00		102	83.3-107			
LCS Dup (1C18044-BSD1)											
Fluoride	3/18/21 14:44	2.02	0.22	mg/L	2.00		101	83.3-107	0.494	30	
LCS Dup (1C18044-BSD2)											
Fluoride	3/26/21 10:22	2.05	0.22	mg/L	2.00		103	83.3-107	0.489	30	
Duplicate (1C18044-DUP1)			**Source: 2103321-04**								
Fluoride	3/18/21 14:44	0.23	0.22	mg/L		0.23			2.63	20	
Duplicate (1C18044-DUP2)			**Source: 2103321-07**								
Fluoride	3/26/21 10:22	ND	0.22	mg/L		ND				20	
Matrix Spike (1C18044-MS1)			**Source: 2103321-04**								
Fluoride	3/18/21 14:44	1.22	0.22	mg/L	1.00	0.23	99.5	79.3-113			
Matrix Spike (1C18044-MS2)			**Source: 2103321-05**								
Fluoride	3/26/21 10:22	1.00	0.22	mg/L	1.00	ND	99.6	79.3-113			
Matrix Spike Dup (1C18044-MSD1)			**Source: 2103321-04**								
Fluoride	3/18/21 14:44	1.25	0.22	mg/L	1.00	0.23	103	79.3-113	2.43	30	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C18044 - Default Prep GenChem											
Matrix Spike Dup (1C18044-MSD2)			**Source: 2103321-05**								
Fluoride	3/26/21 10:22	1.02	0.22	mg/L	1.00	ND	102	79.3-113	2.38	30	

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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C19035 - EPA 200.2 DCN 1017 Rev 9											
Blank (1C19035-BLK1)											
Barium 455.403 [Radial]	3/22/21 11:18	ND	0.010	mg/L							
Boron 249.773 [Radial]	3/22/21 11:18	ND	0.050	"							
Calcium 315.887 [Radial]	3/22/21 11:18	ND	0.050	"							
Lithium 610.362 [Axial]	3/22/21 11:18	ND	0.040	"							
LCS (1C19035-BS1)											
Barium 455.403 [Radial]	3/22/21 11:32	0.217	0.010	mg/L	0.200		108	85-115			
Boron 249.773 [Radial]	3/22/21 11:32	0.210	0.050	"	0.200		105	85-115			
Calcium 315.887 [Radial]	3/22/21 11:32	0.200	0.050	"	0.200		100	85-115			
Lithium 610.362 [Axial]	3/22/21 15:35	0.176	0.040	"	0.200		87.9	85-115			
LCS Dup (1C19035-BSD1)											
Barium 455.403 [Radial]	3/22/21 11:35	0.214	0.010	mg/L	0.200		107	85-115	1.08	20	
Boron 249.773 [Radial]	3/22/21 11:35	0.210	0.050	"	0.200		105	85-115	0.102	20	
Calcium 315.887 [Radial]	3/22/21 11:35	0.205	0.050	"	0.200		102	85-115	1.99	20	
Lithium 610.362 [Axial]	3/22/21 15:39	0.169	0.040	"	0.200		84.4	85-115	4.01	20	L2
Duplicate (1C19035-DUP1)			**Source: 2103321-09**								
Calcium 315.887 [Radial]	3/22/21 12:26	13.9	0.050	mg/L		13.8			0.769	20	
Matrix Spike (1C19035-MS1)			**Source: 2103321-05**								
Barium 455.403 [Radial]	3/22/21 12:12	0.218	0.010	mg/L	0.200	0.012	103	70-130			
Boron 249.773 [Radial]	3/22/21 12:12	0.206	0.050	"	0.200	ND	103	70-130			
Calcium 315.887 [Radial]	3/22/21 12:12	0.768	0.050	"	0.200	0.571	98.2	70-130			
Lithium 610.362 [Axial]	3/22/21 12:12	0.196	0.040	"	0.200	ND	97.9	70-130			
Matrix Spike (1C19035-MS2)			**Source: 2103321-09**								
Barium 455.403 [Radial]	3/22/21 12:23	0.348	0.010	mg/L	0.200	0.110	119	70-130			
Boron 249.773 [Radial]	3/22/21 12:23	0.250	0.050	"	0.200	0.019	116	70-130			
Lithium 610.362 [Axial]	3/22/21 12:23	0.189	0.040	"	0.200	ND	94.4	70-130			

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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C19035 - EPA 200.2 DCN 1017 Rev 9											
Matrix Spike Dup (1C19035-MSD1)			**Source: 2103321-05**								
Barium 455.403 [Radial]	3/22/21 12:15	0.223	0.010	mg/L	0.200	0.012	105	70-130	2.38	20	
Boron 249.773 [Radial]	3/22/21 12:15	0.207	0.050	"	0.200	ND	103	70-130	0.393	20	
Calcium 315.887 [Radial]	3/22/21 12:15	0.788	0.050	"	0.200	0.571	108	70-130	2.58	20	
Lithium 610.362 [Axial]	3/22/21 12:15	0.194	0.040	"	0.200	ND	97.0	70-130	0.925	20	
Matrix Spike Dup (1C19035-MSD2)			**Source: 2103321-09**								
Barium 455.403 [Radial]	3/22/21 12:26	0.324	0.010	mg/L	0.200	0.110	107	70-130	7.28	20	
Boron 249.773 [Radial]	3/22/21 12:26	0.228	0.050	"	0.200	0.019	105	70-130	9.03	20	
Lithium 610.362 [Axial]	3/22/21 12:26	0.189	0.040	"	0.200	ND	94.7	70-130	0.354	20	

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Project: CGLP CCR
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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C19034 - EPA 200.2 DCN 1017 Rev 9											
Blank (1C19034-BLK1)											
Antimony [He]	3/22/21 17:29	ND	0.00200	mg/L							
Arsenic [NG]	3/22/21 17:29	ND	0.00200	"							
Beryllium [He]	3/22/21 17:29	ND	0.00100	"							
Cadmium [He]	3/22/21 17:29	ND	0.00100	"							
Chromium [He]	3/22/21 17:29	ND	0.00100	"							
Cobalt [He]	3/22/21 17:29	ND	0.00100	"							
Lead [He]	3/22/21 17:29	ND	0.00100	"							
Molybdenum [He]	3/22/21 17:29	ND	0.00100	"							
Selenium [NG]	3/22/21 17:29	ND	0.00500	"							
Thallium [He]	3/22/21 17:29	ND	0.00500	"							
LCS (1C19034-BS1)											
Antimony [He]	3/22/21 17:35	0.109	0.00200	mg/L	0.100		109	85-115			
Arsenic [NG]	3/22/21 17:35	0.098	0.00200	"	0.100		98.0	85-115			
Beryllium [He]	3/22/21 17:35	0.104	0.00100	"	0.100		104	85-115			
Cadmium [He]	3/22/21 17:35	0.098	0.00100	"	0.100		98.5	85-115			
Chromium [He]	3/22/21 17:35	0.106	0.00100	"	0.100		106	85-115			
Cobalt [He]	3/22/21 17:35	0.105	0.00100	"	0.100		105	85-115			
Lead [He]	3/22/21 17:35	0.098	0.00100	"	0.100		97.9	85-115			
Molybdenum [He]	3/22/21 17:35	0.102	0.00100	"	0.100		102	85-115			
Selenium [NG]	3/22/21 17:35	0.101	0.00500	"	0.100		101	85-115			
Thallium [He]	3/22/21 17:35	0.102	0.00500	"	0.100		102	85-115			
LCS Dup (1C19034-BSD1)											
Antimony [He]	3/22/21 17:42	0.108	0.00200	mg/L	0.100		108	85-115	1.64	20	
Arsenic [NG]	3/22/21 17:42	0.099	0.00200	"	0.100		98.7	85-115	0.708	20	
Beryllium [He]	3/22/21 17:42	0.106	0.00100	"	0.100		106	85-115	1.86	20	
Cadmium [He]	3/22/21 17:42	0.098	0.00100	"	0.100		98.0	85-115	0.474	20	
Chromium [He]	3/22/21 17:42	0.104	0.00100	"	0.100		104	85-115	1.59	20	
Cobalt [He]	3/22/21 17:42	0.103	0.00100	"	0.100		103	85-115	2.01	20	
Lead [He]	3/22/21 17:42	0.096	0.00100	"	0.100		96.4	85-115	1.56	20	
Molybdenum [He]	3/22/21 17:42	0.102	0.00100	"	0.100		102	85-115	0.272	20	
Selenium [NG]	3/22/21 17:42	0.102	0.00500	"	0.100		102	85-115	1.06	20	
Thallium [He]	3/22/21 17:42	0.103	0.00500	"	0.100		103	85-115	0.575	20	

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Project: CGLP CCR
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Project Manager: Jim Ward

Reported:
04/13/2021 13:02

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C19034 - EPA 200.2 DCN 1017 Rev 9											
Matrix Spike (1C19034-MS1)			**Source: 2103321-05**								
Antimony [He]	3/23/21 16:30	0.110	0.00200	mg/L	0.100	ND	110	70-130			
Arsenic [NG]	3/23/21 16:30	0.102	0.00200	"	0.100	ND	102	70-130			
Beryllium [He]	3/23/21 16:30	0.116	0.00100	"	0.100	ND	116	70-130			
Cadmium [He]	3/23/21 16:30	0.101	0.00100	"	0.100	ND	101	70-130			
Chromium [He]	3/23/21 16:30	0.103	0.00100	"	0.100	ND	103	70-130			
Cobalt [He]	3/23/21 16:30	0.103	0.00100	"	0.100	0.0006	102	70-130			
Lead [He]	3/23/21 16:30	0.100	0.00100	"	0.100	ND	99.9	70-130			
Molybdenum [He]	3/23/21 16:30	0.106	0.00100	"	0.100	0.0002	106	70-130			
Selenium [NG]	3/23/21 16:30	0.100	0.00500	"	0.100	ND	100	70-130			
Thallium [He]	3/23/21 16:30	0.104	0.00500	"	0.100	ND	104	70-130			
Matrix Spike (1C19034-MS2)			**Source: 2103321-09**								
Antimony [He]	3/23/21 16:56	0.110	0.00200	mg/L	0.100	ND	110	70-130			
Arsenic [NG]	3/23/21 16:56	0.104	0.00200	"	0.100	ND	104	70-130			
Beryllium [He]	3/23/21 16:56	0.111	0.00100	"	0.100	ND	111	70-130			
Cadmium [He]	3/23/21 16:56	0.100	0.00100	"	0.100	ND	100	70-130			
Chromium [He]	3/23/21 16:56	0.103	0.00100	"	0.100	ND	103	70-130			
Cobalt [He]	3/23/21 16:56	0.101	0.00100	"	0.100	ND	101	70-130			
Lead [He]	3/23/21 16:56	0.099	0.00100	"	0.100	ND	99.2	70-130			
Molybdenum [He]	3/23/21 16:56	0.106	0.00100	"	0.100	0.0002	106	70-130			
Selenium [NG]	3/23/21 16:56	0.103	0.00500	"	0.100	ND	103	70-130			
Thallium [He]	3/23/21 16:56	0.105	0.00500	"	0.100	ND	105	70-130			
Matrix Spike Dup (1C19034-MSD1)			**Source: 2103321-05**								
Antimony [He]	3/23/21 16:37	0.111	0.00200	mg/L	0.100	ND	111	70-130	0.534	20	
Arsenic [NG]	3/23/21 16:37	0.101	0.00200	"	0.100	ND	101	70-130	1.96	20	
Beryllium [He]	3/23/21 16:37	0.113	0.00100	"	0.100	ND	113	70-130	2.59	20	
Cadmium [He]	3/23/21 16:37	0.102	0.00100	"	0.100	ND	102	70-130	0.747	20	
Chromium [He]	3/23/21 16:37	0.104	0.00100	"	0.100	ND	104	70-130	1.14	20	
Cobalt [He]	3/23/21 16:37	0.103	0.00100	"	0.100	0.0006	103	70-130	0.386	20	
Lead [He]	3/23/21 16:37	0.101	0.00100	"	0.100	ND	101	70-130	1.33	20	
Molybdenum [He]	3/23/21 16:37	0.107	0.00100	"	0.100	0.0002	106	70-130	0.762	20	
Selenium [NG]	3/23/21 16:37	0.099	0.00500	"	0.100	ND	98.7	70-130	1.24	20	
Thallium [He]	3/23/21 16:37	0.106	0.00500	"	0.100	ND	106	70-130	1.88	20	

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Reported:
04/13/2021 13:02

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1C19034 - EPA 200.2 DCN 1017 Rev 9											
Matrix Spike Dup (1C19034-MSD2)			**Source: 2103321-09**								
Antimony [He]	3/23/21 17:03	0.111	0.00200	mg/L	0.100	ND	111	70-130	0.443	20	
Arsenic [NG]	3/23/21 17:03	0.107	0.00200	"	0.100	ND	107	70-130	3.13	20	
Beryllium [He]	3/23/21 17:03	0.113	0.00100	"	0.100	ND	113	70-130	1.60	20	
Cadmium [He]	3/23/21 17:03	0.101	0.00100	"	0.100	ND	101	70-130	0.843	20	
Chromium [He]	3/23/21 17:03	0.104	0.00100	"	0.100	ND	104	70-130	0.255	20	
Cobalt [He]	3/23/21 17:03	0.102	0.00100	"	0.100	ND	102	70-130	0.947	20	
Lead [He]	3/23/21 17:03	0.101	0.00100	"	0.100	ND	101	70-130	1.77	20	
Molybdenum [He]	3/23/21 17:03	0.108	0.00100	"	0.100	0.0002	107	70-130	1.09	20	
Selenium [NG]	3/23/21 17:03	0.106	0.00500	"	0.100	ND	106	70-130	3.06	20	
Thallium [He]	3/23/21 17:03	0.106	0.00500	"	0.100	ND	106	70-130	1.70	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	04/13/2021 13:02

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 237.312 [Radial]	C01,C02
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Lithium 610.362 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Tin 189.989 [Axial]	C01,C02
Titanium 334.941 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/13/2021 13:02

Arsenic [He]	C01
Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01
Cadmium [HHe]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01
Selenium [HHe]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

SM 2540 C-2011 in Water

Total Dissolved Solids	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

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228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/13/2021 13:02

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	*LA Environmental Lab Accreditation Program*	*01960*	*06/30/2021*
C02	*The NELAC Institute (NELAP)*	*TNI01397*	*06/30/2021*
C03	*Ms Dept of Health (Drinking Water Microbiology)*	*MS00021*	*12/31/2021*
C04	*Ms Dept of Health (Drinking Water Chemistry)*	*MS00021*	*12/31/2021*
C05	*Ms DEQ Lead Firm Certification*	*PBF-00000028*	*03/24/2021*
C06	*MsDEQ Asbestos Inspector : C.D. Bingham*	*ABI-00001348*	*02/12/2021*
C07	*MsDEQ Air Monitor : C.D. Bingham*	*AM-011572*	*02/13/2021*
C08	*MsDEQ Asbestos Inspector: C. W. Meins*	*ABI-00001821*	*09/04/2020*
C09	*MsDEQ Air Monitor : C.W. Meins*	*AM-011189*	*02/13/2021*
C12			
C14	*MsDEQ Lead Paint Inspector : C.D. Bingham*	*PBI-00003690*	*03/24/2021*
C15	*MsDEQ Lead Paint Inspector : C.W. Meins*	*PBI-00001740*	*03/24/2021*
Not Certi			*06/30/2020*

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	04/13/2021 13:02

Analyst Initials Key

FullName	Initials
Alyssa B Timbs	ABT
Cristina D Vargas	CDV
Charles L Vorhoff	CLV
Dortha L. Wells	DLW
Howard Mitch Spicer	HMS
Sarah E. Tomek	SET
Teresa Meins	TKM
Tina Tomek	TPT

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

pg 1 of 2

Print Form

M-M Lab WO # 2103321

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address : Kshelton@envirocorp.net
Phone: 662-387-5758	Sampler Name Printed: Kirk Shelton / Cam Clarke
Fax:	Sampler Name Signed: KS / CC

Turn Around Time & Reporting
Our normal turn around time is 10 working days

X Normal
__Next Day*
__2nd Day*
__Other*_____
*All rush order requests must be prior approved.
__Phone
__Mail
__Fax
__Email

QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #:

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Preservative: Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron, Beryllium	Cadmium, Chromium	Lead, Calcium, Cobalt	Lithium	Molybendum, Selenium	Total Radium 226 & 228
MW-9	3/15/21 / 17:26	W	4	G	X	X	X	X	X	X	X	X	X
OW-2	3/15/21 / 16:51	W	4	G	X	X	X	X	X	X	X	X	X
MW-13	3/16/21 / 11:56	W	4	G	X	X	X	X	X	X	X	X	X
MW-7	3/16/21 / 13:40	W	4	G	X	X	X	X	X	X	X	X	X
MW-14	3/16/21 / 14:20	W	4	G	X	X	X	X	X	X	X	X	X
Field Blank	3/16/21 / 13:33	W	4	G	X	X	X	X	X	X	X	X	X
Duplicate	— — — —	W	4	G	X	X	X	X	X	X	X	X	X
MW-12	3/15/21 / 16:20	W	4	G	X	X	X	X	X	X	X	X	X
CCR-2	3/15/21 / 18:05	W	4	G	X	X	X	X	X	X	X	X	X
CCR-3	3/15/21 / 18:35	W	4	G	X	X	X	X	X	X	X	X	X
CCR-4	3/16/21 / 10:43	W	4	G	X	X	X	X	X	X	X	X	X

Received on Ice? (Y) N Thermometer# 4B Cooler # _____ Receipt Temp Corrected(°C)
Date & Time _____ By: _____ Sample____ Blank X Cooler____

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Kirk Shelton	KS	ECS, Inc	3/16/21	1700
Received by	Fed Ex				
Relinquished by	Fed Ex				
Received by	Sarah Tomek	Sarah Tomek	MM	3/17/21	1000
Relinquished by					
Received by					

Notes:
call ECS 662 397 6555
if any problems occur.
ICAS
cooler # 1122 1.3°c
cooler # 1119 0.4°c
cooler # 1109 0.6°c

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

pg 2 of 2

M-M Lab WO # 2103321

Company Name: Choctaw Generation Limited Partnership LLLP		Project Manager: Jim Ward	
Address: 2391 Pensacola Rd.		Purchase Order #:	
City: Ackerman	State: MS Zip: 39735	Email Address: Kshilton@environmg.net	
Phone: 662-387-5758		Sampler Name Printed: Kyle Shilton & Cam Clarke	
Fax:		Sampler Name Signed:	

Turn Around Time & Reporting

Our normal turn around time is 10 working days

__Normal __Next Day* __2nd Day* __Other*_____

*All rush order requests must be prior approved.

__Phone __Mail __Fax __Email

QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name:	CGLP CCR
Project #:	

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron, Beryllium	Cadmium, Chromium	Lead, Calcium, Cobalt	Lithium	Molybendum, Selenium	Total Radium 226 & 228
Preservative:													
CCR-5	3/16/21 / 9:40	W	4	G	X	X	X	X	X	X	X	X	X

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y N Thermometer#_____ Cooler #_____ **Receipt Temp Corrected(°C)**

Date & Time _____ By: _____ Sample_____ Blank_____ Cooler_____

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Kyle Shilton		ECS, Inc	3/16/21	1700
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	3/17/21	1000
Relinquished by					
Received by					

Notes:

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

April 13, 2021

Tina Tomek
Micro Methods Laboratory, Inc.
P. O. Box 1410
Ocean Springs, MS 39566

RE: Project: 2103321
Pace Project No.: 20193984

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

CERTIFICATIONS

Project: 2103321
Pace Project No.: 20193984

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

SAMPLE SUMMARY

Project: 2103321
Pace Project No.: 20193984

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20193984001	**2103321-01**	Water	03/15/21 17:26	03/19/21 10:20
20193984002	**2103321-02**	Water	03/15/21 16:51	03/19/21 10:20
20193984003	**2103321-03**	Water	03/16/21 11:56	03/19/21 10:20
20193984004	**2103321-04**	Water	03/16/21 13:40	03/19/21 10:20
20193984005	**2103321-05**	Water	03/16/21 14:20	03/19/21 10:20
20193984006	**2103321-06**	Water	03/16/21 13:33	03/19/21 10:20
20193984007	**2103321-07**	Water	03/15/21 00:00	03/19/21 10:20
20193984008	**2103321-08**	Water	03/15/21 16:20	03/19/21 10:20
20193984009	**2103321-09**	Water	03/15/21 18:05	03/19/21 10:20
20193984010	**2103321-10**	Water	03/15/21 18:35	03/19/21 10:20
20193984011	**2103321-11**	Water	03/16/21 10:43	03/19/21 10:20
20193984012	**2103321-12**	Water	03/16/21 09:40	03/19/21 10:20

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SAMPLE ANALYTE COUNT

Project: 2103321
Pace Project No.: 20193984

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20193984001	**2103321-01**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984002	**2103321-02**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984003	**2103321-03**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984004	**2103321-04**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984005	**2103321-05**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984006	**2103321-06**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984007	**2103321-07**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984008	**2103321-08**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984009	**2103321-09**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984010	**2103321-10**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984011	**2103321-11**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
20193984012	**2103321-12**	EPA 903.1	MK1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

PROJECT NARRATIVE

Project: 2103321
Pace Project No.: 20193984

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Micro Methods
Date: April 13, 2021

General Information:
12 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

PROJECT NARRATIVE

Project: 2103321
Pace Project No.: 20193984

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Micro Methods
Date: April 13, 2021

General Information:
12 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2103321
Pace Project No.: 20193984

Sample: 2103321-01 **Lab ID: 20193984001** Collected: 03/15/21 17:26 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.09 ± 0.661 (0.852) C:NA T:93%**	pCi/L	04/09/21 11:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.594 ± 0.421 (0.826) C:73% T:98%**	pCi/L	04/12/21 15:52	15262-20-1	

Sample: 2103321-02 **Lab ID: 20193984002** Collected: 03/15/21 16:51 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.221 ± 0.253 (0.150) C:NA T:97%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.247 ± 0.408 (0.887) C:70% T:93%**	pCi/L	04/12/21 16:27	15262-20-1	

Sample: 2103321-03 **Lab ID: 20193984003** Collected: 03/16/21 11:56 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.172 ± 0.434 (0.806) C:NA T:89%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.72 ± 0.710 (1.21) C:73% T:86%**	pCi/L	04/12/21 15:56	15262-20-1	

Sample: 2103321-04 **Lab ID: 20193984004** Collected: 03/16/21 13:40 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.329 ± 0.342 (0.508) C:NA T:95%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.01 ± 0.511 (0.923) C:74% T:93%**	pCi/L	04/12/21 15:56	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2103321
Pace Project No.: 20193984

Sample: 2103321-05 **Lab ID: 20193984005** Collected: 03/16/21 14:20 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.172 ± 0.407 (0.753) C:NA T:89%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.655 ± 0.507 (1.02) C:73% T:92%**	pCi/L	04/12/21 15:56	15262-20-1	

Sample: 2103321-06 **Lab ID: 20193984006** Collected: 03/16/21 13:33 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0602 ± 0.354 (0.723) C:NA T:90%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.0588 ± 0.514 (1.17) C:73% T:89%**	pCi/L	04/12/21 15:56	15262-20-1	

Sample: 2103321-07 **Lab ID: 20193984007** Collected: 03/15/21 00:00 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.164 ± 0.387 (0.716) C:NA T:102%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**-0.0425 ± 0.809 (1.85) C:69% T:87%**	pCi/L	04/12/21 19:23	15262-20-1	

Sample: 2103321-08 **Lab ID: 20193984008** Collected: 03/15/21 16:20 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.123 ± 0.382 (0.740) C:NA T:89%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.24 ± 0.729 (1.38) C:73% T:95%**	pCi/L	04/12/21 19:23	15262-20-1	

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2103321
Pace Project No.: 20193984

Sample: 2103321-09 **Lab ID: 20193984009** Collected: 03/15/21 18:05 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.429 ± 0.526 (0.864) C:NA T:93%**	pCi/L	04/09/21 12:03	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.461 ± 0.735 (1.59) C:72% T:87%**	pCi/L	04/12/21 19:23	15262-20-1	

Sample: 2103321-10 **Lab ID: 20193984010** Collected: 03/15/21 18:35 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.231 ± 0.392 (0.692) C:NA T:91%**	pCi/L	04/09/21 12:25	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.205 ± 0.833 (1.87) C:65% T:91%**	pCi/L	04/12/21 19:23	15262-20-1	

Sample: 2103321-11 **Lab ID: 20193984011** Collected: 03/16/21 10:43 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.599 ± 0.475 (0.645) C:NA T:85%**	pCi/L	04/09/21 12:25	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.129 ± 0.562 (1.27) C:67% T:90%**	pCi/L	04/12/21 17:51	15262-20-1	

Sample: 2103321-12 **Lab ID: 20193984012** Collected: 03/16/21 09:40 Received: 03/19/21 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.000 ± 0.306 (0.686) C:NA T:88%**	pCi/L	04/09/21 12:25	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.757 ± 0.520 (1.01) C:71% T:98%**	pCi/L	04/12/21 17:52	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2103321
Pace Project No.: 20193984

QC Batch: 440770 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 20193984001, 20193984002, 20193984003, 20193984004, 20193984005, 20193984006, 20193984007, 20193984008, 20193984009, 20193984010, 20193984011, 20193984012

METHOD BLANK: 2127957 Matrix: Water
Associated Lab Samples: 20193984001, 20193984002, 20193984003, 20193984004, 20193984005, 20193984006, 20193984007, 20193984008, 20193984009, 20193984010, 20193984011, 20193984012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0921 ± 0.286 (0.553) C:NA T:94%	pCi/L	04/09/21 11:43	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2103321
Pace Project No.: 20193984

QC Batch: 440771 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 20193984001, 20193984002, 20193984003, 20193984004, 20193984005, 20193984006, 20193984007, 20193984008, 20193984009, 20193984010, 20193984011, 20193984012

METHOD BLANK: 2127958 Matrix: Water
Associated Lab Samples: 20193984001, 20193984002, 20193984003, 20193984004, 20193984005, 20193984006, 20193984007, 20193984008, 20193984009, 20193984010, 20193984011, 20193984012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.305 ± 0.335 (0.700) C:74% T:100%	pCi/L	04/12/21 15:51	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALIFIERS

Project: 2103321
Pace Project No.: 20193984

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2103321
Pace Project No.: 20193984

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20193984001	**2103321-01**	EPA 903.1	440770		
20193984002	**2103321-02**	EPA 903.1	440770		
20193984003	**2103321-03**	EPA 903.1	440770		
20193984004	**2103321-04**	EPA 903.1	440770		
20193984005	**2103321-05**	EPA 903.1	440770		
20193984006	**2103321-06**	EPA 903.1	440770		
20193984007	**2103321-07**	EPA 903.1	440770		
20193984008	**2103321-08**	EPA 903.1	440770		
20193984009	**2103321-09**	EPA 903.1	440770		
20193984010	**2103321-10**	EPA 903.1	440770		
20193984011	**2103321-11**	EPA 903.1	440770		
20193984012	**2103321-12**	EPA 903.1	440770		
20193984001	**2103321-01**	EPA 904.0	440771		
20193984002	**2103321-02**	EPA 904.0	440771		
20193984003	**2103321-03**	EPA 904.0	440771		
20193984004	**2103321-04**	EPA 904.0	440771		
20193984005	**2103321-05**	EPA 904.0	440771		
20193984006	**2103321-06**	EPA 904.0	440771		
20193984007	**2103321-07**	EPA 904.0	440771		
20193984008	**2103321-08**	EPA 904.0	440771		
20193984009	**2103321-09**	EPA 904.0	440771		
20193984010	**2103321-10**	EPA 904.0	440771		
20193984011	**2103321-11**	EPA 904.0	440771		
20193984012	**2103321-12**	EPA 904.0	440771		

MICRO-METHODS LABORATORY, INC.

WO#: 20193984

20193984

RACT
R

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
Phone: -
Fax: -

Work Order: 2103321

Analysis	Due	Expires	Comments
Sample ID: 2103321-01 *Water* *Sampled: 03/15/2021 17:26* *Sample Name: MW-9*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 17:26	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-02 *Water* *Sampled: 03/15/2021 16:51* *Sample Name: OW-2*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 16:51	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-03 *Water* *Sampled: 03/16/2021 11:56* *Sample Name: MW-13*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 11:56	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-04 *Water* *Sampled: 03/16/2021 13:40* *Sample Name: MW-7*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 13:40	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-05 *Water* *Sampled: 03/16/2021 14:20* *Sample Name: MW-14*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 14:20	

Sarah Jarnes 3/18/21 1630		UPS 3/18/21 1630	
Released By	Date	Received By	Date
UPS 3/19/21 10:20		Pace 3/19/21 10:20	
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date

Work Order: 2103321 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-06 ***Water Sampled: 03/16/2021 13:33 Sample Name: Field Blank***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 13:33	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-07 ***Water Sampled: 03/15/2021 00:00 Sample Name: Duplicate***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 00:00	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-08 ***Water Sampled: 03/15/2021 16:20 Sample Name: MW-12***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 16:20	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-09 ***Water Sampled: 03/15/2021 18:05 Sample Name: CCR-2***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 18:05	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-10 ***Water Sampled: 03/15/2021 18:35 Sample Name: CCR-3***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/12/2021 18:35	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-11 ***Water Sampled: 03/16/2021 10:43 Sample Name: CCR-4***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 10:43	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2103321-12 ***Water Sampled: 03/16/2021 09:40 Sample Name: CCR-5***			

Sarah Jones	3/18/21 A 1630	VPS	3/18/21 A 1630
Released By	Date	Received By	Date
VPS	3/19/21 A 10:20	Pace	3/19/21 10:20
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date

Work Order: 2103321 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2103321-12	***Water***	***Sampled: 03/16/2021 09:40***	***Sample Name: CCR-5***
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2021	04/13/2021 09:40	

Containers Supplied:
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Released By	Date	Received By	Date
Sarah Jones	3/18/21 @ 1630	UPS	3/18/21 @ 1630
UPS	3/19/21 10:20	Ann Pace	3/19/21 10:20

WO#: 20193984

Pace Analytical

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upc

PM: KHB Due Date: 04/12/21
CLIENT: 20-MICRO

F

Courier: ☐ Pace Courier ☐ Hired Courier ☐ Fed X ☒ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☒ Yes ☐ No

Therometer Used:	☐ Therm Fisher IR 7 ☐ Therm Fisher IR 10

Type of Ice: Wet Blue (None) Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and Initials of person examining contents: KMB

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☐Yes	☒No	☐N/A	1
Chain of Custody Present:	☒Yes	☐No	☐N/A	2
Chain of Custody Complete:	☒Yes	☐No	☐N/A	3
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	4
Sampler Name & Signature on COC:	☐Yes	☒No	☐N/A	5
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	6
Sufficient Volume:	☒Yes	☐No	☐N/A	7 2 Liters of HNO_3
Correct Containers Used:	☒Yes	☐No	☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☒N/A	9
Sample Labels match COC:	☒Yes	☐No	☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☒Yes	☐No	☐N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☒Yes	☐No	☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO_3 _____ H_2SO_4 _____
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14
Trip Blank Present:	☐Yes	☒No		15

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.08, 15Feb2013 SCUR Form-mod

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

DOCUMENT CHANGE NOTICE

Revised Report

January 18, 2022

Jim Ward

Work Order # : 2105488

Purchase Order # RDH14390

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

RE: CGLP CCR Semi Annual

Enclosed is the revised report for samples received by the laboratory on 05/27/2021 10:33. This report supercedes any previous version of the above noted work order. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-7	2105488-01	Water	05/26/2021 12:00	*Cam Clark*	05/27/2021 10:33
MW-9	2105488-02	Water	05/26/2021 10:48	*Cam Clark*	05/27/2021 10:33
MW-12	2105488-03	Water	05/26/2021 10:05	*Cam Clark*	05/27/2021 10:33
MW-13	2105488-04	Water	05/26/2021 12:55	*Cam Clark*	05/27/2021 10:33
MW-14	2105488-05	Water	05/26/2021 10:55	*Cam Clark*	05/27/2021 10:33
Field Blank	2105488-06	Water	05/26/2021 12:35	*Cam Clark*	05/27/2021 10:33
Duplicate	2105488-07	Water	05/26/2021 00:00	*Cam Clark*	05/27/2021 10:33
OW-2	2105488-08	Water	05/26/2021 09:25	*Cam Clark*	05/27/2021 10:33
CCR-2	2105488-09	Water	05/26/2021 12:05	*Cam Clark*	05/27/2021 10:33
CCR-3	2105488-10	Water	05/26/2021 11:23	*Cam Clark*	05/27/2021 10:33
CCR-4	2105488-11	Water	05/26/2021 08:26	*Cam Clark*	05/27/2021 10:33
CCR-5	2105488-12	Water	05/26/2021 08:45	*Cam Clark*	05/27/2021 10:33

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Sample Receipt Conditions

Date/Time Received: 5/27/2021 10:33:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 5/28/2021 10:46:00AM
Cooler ID: **#1130**

Shipped by: Fed Ex
Submitted by: Cam Clark
Logged by: Sarah E. Tomek
Receipt Temperature: 5.5 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Cooler ID: #409 **Receipt Temperature:** 3.2 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

Micro-Methods Laboratory, Inc. **Revised Report**

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Cooler ID: #680 **Receipt Temperature:** 0.4 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

Micro-Methods Laboratory, Inc. **Revised Report**

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached Radiological results from Sub-Contract Laboratory.

REVISED REPORT-1/17/2022-SCH:
CAR#M011722-01: Lithium results were corrected for Calcium interference and a revised report issued.

Qualification: *No Data Qualification*

Analyte & Samples(s) Qualified: *None*

Micro-Methods Laboratory, Inc. **Revised Report**

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

MW-7

2105488-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.22**	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.073**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 12:36	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**32.0**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 12:04	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0718**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

MW-9

2105488-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.51**	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.090**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 12:47	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**61.7**	0.100	"	2.0	"	CLV	"	06/11/2021 15:18	"	
Lithium 610.362 [Axial]	**0.075**	0.040	"	1.0	"	CLV	"	06/10/2021 12:47	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 12:25	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0898**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	**0.00491**	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0209**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	**0.00111**	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00453**	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

MW-12

2105488-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.210**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 12:50	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**32.1**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 12:31	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.210**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0220**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

MW-13

2105488-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.173**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 12:54	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**20.0**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 12:38	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.168**	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

MW-14

2105488-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.013**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 12:57	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.643**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 12:45	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0128**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Field Blank

2105488-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:08	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.288**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:05	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Duplicate

2105488-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.013**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:12	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.635**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:11	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0129**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

OW-2

2105488-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.23**	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.058**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:16	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**33.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:18	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0575**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

CCR-2

2105488-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.111**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:38	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**14.0**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:25	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.110**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

CCR-3

2105488-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.22**	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.072**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:41	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**37.1**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.107**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:44	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0737**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0163**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

CCR-4

2105488-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.156**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:45	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**24.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:51	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.158**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00233**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

CCR-5

2105488-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	1F02071	CDV	06/02/2021 11:50	06/02/2021 15:28	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.036**	0.010	mg/L	1.0	1F01032	CLV	06/01/2021 09:25	06/10/2021 13:49	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	**0.091**	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**112**	0.250	"	5.0	"	CLV	"	06/11/2021 16:09	"	
Lithium 610.362 [Axial]	ND	0.040	"	1.0	"	CLV	"	06/10/2021 13:49	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1F01031	SCH	"	06/07/2021 13:58	EPA 200.8 Rev 5.4	
Arsenic [He]	**0.00284**	0.00200	"	"	"	SCH	"	"	"	
Barium [He]	**0.0358**	0.00100	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0117**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00806**	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.002	mg/L	1.0	1F03042	JTR	06/02/2021 10:00	06/04/2021 15:03	EPA 245.1 Rev 3.0	

Micro-Methods Laboratory, Inc.

Revised Report

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MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F02071 - Default Prep GenChem											
Blank (1F02071-BLK1)											
Fluoride	6/2/21 15:28	ND	0.22	mg/L							
LCS (1F02071-BS1)											
Fluoride	6/2/21 15:28	1.95	0.22	mg/L	2.00		97.5	83.3-107			
LCS Dup (1F02071-BSD1)											
Fluoride	6/2/21 15:28	1.99	0.22	mg/L	2.00		99.5	83.3-107	2.03	30	
Duplicate (1F02071-DUP1)			**Source: 2105488-05**								
Fluoride	6/2/21 15:28	ND	0.22	mg/L		ND				20	
Matrix Spike (1F02071-MS1)			**Source: 2105488-05**								
Fluoride	6/2/21 15:28	5.08	0.22	mg/L	5.00	ND	102	79.3-113			
Matrix Spike Dup (1F02071-MSD1)			**Source: 2105488-05**								
Fluoride	6/2/21 15:28	5.14	0.22	mg/L	5.00	ND	103	79.3-113	1.17	30	

Micro-Methods Laboratory, Inc.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F01032 - EPA 200.2 DCN 1017 Rev 10											
Blank (1F01032-BLK1)											
Barium 455.403 [Radial]	6/10/21 12:25	ND	0.010	mg/L							
Boron 249.773 [Radial]	6/10/21 12:25	ND	0.050	"							
Calcium 315.887 [Radial]	6/10/21 12:25	ND	0.050	"							
Lithium 610.362 [Axial]	6/10/21 12:25	ND	0.040	"							
LCS (1F01032-BS1)											
Barium 455.403 [Radial]	6/10/21 12:28	0.211	0.010	mg/L	0.200		105	85-115			
Boron 249.773 [Radial]	6/10/21 12:28	0.209	0.050	"	0.200		104	85-115			
Calcium 315.887 [Radial]	6/10/21 12:28	0.399	0.050	"	0.400		99.8	85-115			
Lithium 610.362 [Axial]	6/10/21 12:28	0.196	0.040	"	0.200		98.2	85-115			
LCS Dup (1F01032-BSD1)											
Barium 455.403 [Radial]	6/10/21 12:32	0.203	0.010	mg/L	0.200		101	85-115	3.87	20	
Boron 249.773 [Radial]	6/10/21 12:32	0.205	0.050	"	0.200		103	85-115	1.45	20	
Calcium 315.887 [Radial]	6/10/21 12:32	0.391	0.050	"	0.400		97.8	85-115	2.09	20	
Lithium 610.362 [Axial]	6/10/21 12:32	0.194	0.040	"	0.200		96.9	85-115	1.30	20	
Duplicate (1F01032-DUP1)			**Source: 2105488-01**								
Calcium 315.887 [Radial]	6/10/21 12:39	32.9	0.050	mg/L		32.0			2.59	20	
Matrix Spike (1F01032-MS1)			**Source: 2105488-05**								
Barium 455.403 [Radial]	6/10/21 13:01	0.213	0.010	mg/L	0.200	0.013	100	70-130			
Boron 249.773 [Radial]	6/10/21 13:01	0.207	0.050	"	0.200	ND	103	70-130			
Calcium 315.887 [Radial]	6/10/21 13:01	1.02	0.050	"	0.400	0.643	95.4	70-130			
Lithium 610.362 [Axial]	6/10/21 13:01	0.203	0.040	"	0.200	ND	102	70-130			
Matrix Spike (1F01032-MS2)			**Source: 2105488-01**								
Barium 455.403 [Radial]	6/10/21 12:39	0.276	0.010	mg/L	0.200	0.073	102	70-130			
Boron 249.773 [Radial]	6/10/21 12:39	0.217	0.050	"	0.200	0.009	104	70-130			
Lithium 610.362 [Axial]	6/10/21 12:39	0.225	0.040	"	0.200	0.021	102	70-130			

Micro-Methods Laboratory, Inc.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F01032 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (1F01032-MSD1)			**Source: 2105488-05**								
Barium 455.403 [Radial]	6/10/21 13:05	0.217	0.010	mg/L	0.200	0.013	102	70-130	1.91	20	
Boron 249.773 [Radial]	6/10/21 13:05	0.208	0.050	"	0.200	ND	104	70-130	0.783	20	
Calcium 315.887 [Radial]	6/10/21 13:05	1.04	0.050	"	0.400	0.643	99.2	70-130	1.48	20	
Lithium 610.362 [Axial]	6/10/21 13:05	0.206	0.040	"	0.200	ND	103	70-130	1.13	20	
Matrix Spike Dup (1F01032-MSD2)			**Source: 2105488-01**								
Barium 455.403 [Radial]	6/10/21 12:43	0.276	0.010	mg/L	0.200	0.073	102	70-130	0.000833	20	
Boron 249.773 [Radial]	6/10/21 12:43	0.217	0.050	"	0.200	0.009	104	70-130	0.0760	20	
Lithium 610.362 [Axial]	6/10/21 12:43	0.224	0.040	"	0.200	0.021	101	70-130	0.382	20	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F01031 - EPA 200.2 DCN 1017 Rev 10											
Blank (1F01031-BLK1)											
Antimony [He]	6/7/21 11:38	ND	0.00200	mg/L							
Arsenic [He]	6/7/21 11:38	ND	0.00200	"							
Beryllium [He]	6/7/21 11:38	ND	0.00100	"							
Cadmium [He]	6/7/21 11:38	ND	0.00100	"							
Chromium [He]	6/7/21 11:38	ND	0.00100	"							
Cobalt [He]	6/7/21 11:38	ND	0.00100	"							
Lead [He]	6/7/21 11:38	ND	0.00100	"							
Molybdenum [He]	6/7/21 11:38	ND	0.00100	"							
Selenium [He]	6/7/21 11:38	ND	0.00100	"							
LCS (1F01031-BS1)											
Antimony [He]	6/7/21 11:45	0.099	0.00200	mg/L	0.100		99.5	85-115			
Arsenic [He]	6/7/21 11:45	0.098	0.00200	"	0.100		97.6	85-115			
Beryllium [He]	6/7/21 11:45	0.103	0.00100	"	0.100		103	85-115			
Cadmium [He]	6/7/21 11:45	0.097	0.00100	"	0.100		97.4	85-115			
Chromium [He]	6/7/21 11:45	0.096	0.00100	"	0.100		96.2	85-115			
Cobalt [He]	6/7/21 11:45	0.101	0.00100	"	0.100		101	85-115			
Lead [He]	6/7/21 11:45	0.095	0.00100	"	0.100		95.1	85-115			
Molybdenum [He]	6/7/21 11:45	0.091	0.00100	"	0.100		90.7	85-115			
Selenium [He]	6/7/21 11:45	0.097	0.00100	"	0.100		97.5	85-115			
LCS Dup (1F01031-BSD1)											
Antimony [He]	6/7/21 11:51	0.100	0.00200	mg/L	0.100		100	85-115	0.543	20	
Arsenic [He]	6/7/21 11:51	0.099	0.00200	"	0.100		98.7	85-115	1.13	20	
Beryllium [He]	6/7/21 11:51	0.105	0.00100	"	0.100		105	85-115	1.55	20	
Cadmium [He]	6/7/21 11:51	0.098	0.00100	"	0.100		97.9	85-115	0.576	20	
Chromium [He]	6/7/21 11:51	0.097	0.00100	"	0.100		96.8	85-115	0.527	20	
Cobalt [He]	6/7/21 11:51	0.101	0.00100	"	0.100		101	85-115	0.637	20	
Lead [He]	6/7/21 11:51	0.098	0.00100	"	0.100		97.8	85-115	2.81	20	
Molybdenum [He]	6/7/21 11:51	0.092	0.00100	"	0.100		92.2	85-115	1.65	20	
Selenium [He]	6/7/21 11:51	0.095	0.00100	"	0.100		94.8	85-115	2.76	20	

Micro-Methods Laboratory, Inc.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F01031 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (1F01031-MS1)			**Source: 2105488-01**								
Antimony [He]	6/7/21 12:11	0.101	0.00200	mg/L	0.100	ND	101	70-130			
Arsenic [He]	6/7/21 12:11	0.100	0.00200	"	0.100	0.0002	99.5	70-130			
Beryllium [He]	6/7/21 12:11	0.101	0.00100	"	0.100	ND	101	70-130			
Cadmium [He]	6/7/21 12:11	0.095	0.00100	"	0.100	ND	95.4	70-130			
Chromium [He]	6/7/21 12:11	0.094	0.00100	"	0.100	ND	94.2	70-130			
Cobalt [He]	6/7/21 12:11	0.096	0.00100	"	0.100	0.0005	95.9	70-130			
Lead [He]	6/7/21 12:11	0.098	0.00100	"	0.100	ND	98.4	70-130			
Molybdenum [He]	6/7/21 12:11	0.098	0.00100	"	0.100	0.0002	97.4	70-130			
Selenium [He]	6/7/21 12:11	0.097	0.00100	"	0.100	ND	96.8	70-130			
Matrix Spike (1F01031-MS2)			**Source: 2105488-05**								
Antimony [He]	6/7/21 12:52	0.103	0.00200	mg/L	0.100	ND	103	70-130			
Arsenic [He]	6/7/21 12:52	0.100	0.00200	"	0.100	ND	99.9	70-130			
Beryllium [He]	6/7/21 12:52	0.113	0.00100	"	0.100	ND	113	70-130			
Cadmium [He]	6/7/21 12:52	0.099	0.00100	"	0.100	ND	98.9	70-130			
Chromium [He]	6/7/21 12:52	0.101	0.00100	"	0.100	ND	101	70-130			
Cobalt [He]	6/7/21 12:52	0.106	0.00100	"	0.100	0.0008	105	70-130			
Lead [He]	6/7/21 12:52	0.102	0.00100	"	0.100	ND	102	70-130			
Molybdenum [He]	6/7/21 12:52	0.096	0.00100	"	0.100	ND	96.2	70-130			
Selenium [He]	6/7/21 12:52	0.099	0.00100	"	0.100	ND	99.2	70-130			
Matrix Spike Dup (1F01031-MSD1)			**Source: 2105488-01**								
Antimony [He]	6/7/21 12:18	0.100	0.00200	mg/L	0.100	ND	99.6	70-130	1.27	20	
Arsenic [He]	6/7/21 12:18	0.099	0.00200	"	0.100	0.0002	98.3	70-130	1.21	20	
Beryllium [He]	6/7/21 12:18	0.103	0.00100	"	0.100	ND	103	70-130	2.06	20	
Cadmium [He]	6/7/21 12:18	0.095	0.00100	"	0.100	ND	94.5	70-130	0.915	20	
Chromium [He]	6/7/21 12:18	0.093	0.00100	"	0.100	ND	93.4	70-130	0.755	20	
Cobalt [He]	6/7/21 12:18	0.096	0.00100	"	0.100	0.0005	95.4	70-130	0.559	20	
Lead [He]	6/7/21 12:18	0.096	0.00100	"	0.100	ND	95.7	70-130	2.72	20	
Molybdenum [He]	6/7/21 12:18	0.096	0.00100	"	0.100	0.0002	96.2	70-130	1.30	20	
Selenium [He]	6/7/21 12:18	0.099	0.00100	"	0.100	ND	99.2	70-130	2.44	20	

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F01031 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (1F01031-MSD2)			**Source: 2105488-05**								
Antimony [He]	6/7/21 12:58	0.100	0.00200	mg/L	0.100	ND	100	70-130	2.85	20	
Arsenic [He]	6/7/21 12:58	0.097	0.00200	"	0.100	ND	97.2	70-130	2.80	20	
Beryllium [He]	6/7/21 12:58	0.108	0.00100	"	0.100	ND	108	70-130	4.70	20	
Cadmium [He]	6/7/21 12:58	0.097	0.00100	"	0.100	ND	96.7	70-130	2.32	20	
Chromium [He]	6/7/21 12:58	0.095	0.00100	"	0.100	ND	95.4	70-130	5.79	20	
Cobalt [He]	6/7/21 12:58	0.101	0.00100	"	0.100	0.0008	100	70-130	5.09	20	
Lead [He]	6/7/21 12:58	0.098	0.00100	"	0.100	ND	98.5	70-130	3.05	20	
Molybdenum [He]	6/7/21 12:58	0.095	0.00100	"	0.100	ND	94.6	70-130	1.68	20	
Selenium [He]	6/7/21 12:58	0.092	0.00100	"	0.100	ND	92.2	70-130	7.31	20	

Micro-Methods Laboratory, Inc.

Revised Report

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6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Annual
Project Manager: Jim Ward

Reported:
01/18/2022 07:58

Mercury by EPA 200 Series Methods CVAAS - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1F03042 - EPA 7470A DCN 1017 Rev 10											
Blank (1F03042-BLK1)											
Mercury	6/4/21 15:03	ND	0.002	mg/L							
LCS (1F03042-BS1)											
Mercury	6/4/21 15:03	0.005	0.002	mg/L	0.00500		102	85-115			
LCS Dup (1F03042-BSD1)											
Mercury	6/4/21 15:03	0.005	0.002	mg/L	0.00500		100	85-115	1.98	20	
Matrix Spike (1F03042-MS1)			**Source: 2105488-05**								
Mercury	6/4/21 15:03	0.005	0.002	mg/L	0.00500	0.0005	90.0	70-130			
Matrix Spike (1F03042-MS2)			**Source: 2105488-01**								
Mercury	6/4/21 15:03	0.005	0.002	mg/L	0.00500	ND	108	70-130			

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 237.312 [Radial]	C01,C02
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Lithium 610.362 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Tin 189.989 [Axial]	C01,C02
Titanium 334.941 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02

Micro-Methods Laboratory, Inc.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01
Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01
Cadmium [HHe]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01
Selenium [HHe]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

EPA 245.1 Rev 3.0 in Water

Mercury	C01,C02

****Only compounds included in this list are associated with accredited analyses****

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
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228-875-6420 Phone
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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2022
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2022
C03	Ms Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2022
C04	Ms Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2022
C05	Ms DEQ Lead Firm Certification	PBF-00000028	03/24/2022
C06	MsDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/12/2022
C07	MsDEQ Air Monitor : C.D. Bingham	AM-011572	02/13/2022
C08	MsDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MsDEQ Air Monitor : C.W. Meins	AM-011189	02/13/2022
C14	MsDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	03/24/2022
C15	MsDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	03/24/2022

Report Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of anlayte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/18/2022 07:58

Analyst Initials Key

FullName	Initials
Cristina D Vargas	CDV
Charles D. Bingham	CDB
Charles L Vorhoff	CLV
Howard Mitch Spicer	HMS
Jose T. Rivera	JTR
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

pg 1 of 2

Print Form

M-M Lab WO # 2105488

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address : CClark@envirocomp.net
Phone: 662-387-5758	Sampler Name Printed: Cam Clark
Fax:	Sampler Name Signed: C. Clk

Turn Around Time & Reporting
Our normal turn around time is 10 working days
X Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Fluoride	Antimony, Arsenic, Barium, Beryllium	Cadmium, Cobalt	Chromium, Lead	Lithium, Mercury	Molybdenum, Selenium	Thallium	Total Radium 226 & 228
	Preservative:											
MW-7	5/26/21 12:00	W	4	G	X	X	X	X	X	X	X	X
MW-9	5/26/21 10:48	W	4	G	X	X	X	X	X	X	X	X
MW-12	5/26/21 10:05	W	4	G	X	X	X	X	X	X	X	X
MW-13	5/26/21 12:55	W	4	G	X	X	X	X	X	X	X	X
MW-14	5/26/21 10:55	W	4	G	X	X	X	X	X	X	X	X
Field Blank	5/26/21 12:35	W	4	G	X	X	X	X	X	X	X	X
Duplicate	5/26/21	W	4	G	X	X	X	X	X	X	X	X
OW-2	5/26/21 9:25	W	4	G	X	X	X	X	X	X	X	X
CCR-2	5/26/21 12:05	W	4	G	X	X	X	X	X	X	X	X
CCR-3	5/26/21 11:23	W	4	G	X	X	X	X	X	X	X	X
CCR-4	5/26/21 8:26	W	4	G	X	X	X	X	X	X	X	X

Received on Ice? Y N Thermometer# 5.8 Cooler # _____ Receipt Temp Corrected(°C)
Date & Time _____ By: _____ Sample ____ Blank X Cooler ____

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Cam Clark	C. Clk	ECS	5/26/21	15:30
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	5/26/21	1033
Relinquished by				5/27/21	
Received by					

Notes:
BJ Hailey & Kirk Shelton assisted with Sampling Event.
cooler # 409 3.2°C
cooler # 680 0.4°C
cooler # 1130 5.5°C

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
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www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

pg 2 of 2

Print Form

M-M Lab WO # 2105488

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address : cclark@enviro comp.net
Phone: 662-387-5758	Sampler Name Printed: Cam Clark
Fax:	Sampler Name Signed: Cam Clark

Turn Around Time & Reporting
Our normal turn around time is 10 working days

X Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
__Email

QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Fluoride	Antimony, Arsenic, Barium, Beryllium	Cadmium, Cobalt	Chromium, Lead	Lithium, Mercury	Molybdenum, Selenium	Thallium	Total Radium 226 & 228
			Preservative:									
CCR-5	5/26/21 08:45	W	4	G	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

All Temps are Corrected Values

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y N Thermometer#_____ Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: _____ Sample____ Blank____ Cooler____

	Printed Name	Signature	Company	Date	Time
Relinquished by	Cam Clark	Cam Clark	ECS	5/26/21	15:30
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Jones	Sarah Jones	MM	5/27/21	1033
Relinquished by					
Received by					

Notes:
BJ Hailey & Kak Shelton assisted with Sampling Event.

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

June 29, 2021

Tina Tomek
Micro Methods Laboratory, Inc.
P. O. Box 1410
Ocean Springs, MS 39566

RE: Project: 2105488
Pace Project No.: 20210296

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen Brown
karen.brown@pacelabs.com
(504)469-0333
Project Manager

Enclosures

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

CERTIFICATIONS

Project: 2105488
Pace Project No.: 20210296

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

SAMPLE SUMMARY

Project: 2105488
Pace Project No.: 20210296

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20210296001	**2105488-01**	Water	05/26/21 12:00	06/02/21 10:44
20210296002	**2105488-02**	Water	05/26/21 10:48	06/02/21 10:44
20210296003	**2105488-03**	Water	05/26/21 10:05	06/02/21 10:44
20210296004	**2105488-04**	Water	05/26/21 12:55	06/02/21 10:44
20210296005	**2105488-05**	Water	05/26/21 10:55	06/02/21 10:44
20210296006	**2105488-06**	Water	05/26/21 12:35	06/02/21 10:44
20210296007	**2105488-07**	Water	05/26/21 00:00	06/02/21 10:44
20210296008	**2105488-08**	Water	05/26/21 09:25	06/02/21 10:44
20210296009	**2105488-09**	Water	05/26/21 12:05	06/02/21 10:44
20210296010	**2105488-10**	Water	05/26/21 11:23	06/02/21 10:44
20210296011	**2105488-11**	Water	05/26/21 08:26	06/02/21 10:44
20210296012	**2105488-12**	Water	05/26/21 08:45	06/02/21 10:44

Pace Analytical Services, LLC
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St. Rose, LA 70087
(504)469-0333

SAMPLE ANALYTE COUNT

Project: 2105488
Pace Project No.: 20210296

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20210296001	**2105488-01**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296002	**2105488-02**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296003	**2105488-03**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296004	**2105488-04**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296005	**2105488-05**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296006	**2105488-06**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296007	**2105488-07**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296008	**2105488-08**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296009	**2105488-09**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296010	**2105488-10**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296011	**2105488-11**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA
20210296012	**2105488-12**	EPA 903.1	SLC	1	PASI-PA
		EPA 904.0	JC2	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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1000 Riverbend Blvd - Suite F
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PROJECT NARRATIVE

Project: 2105488
Pace Project No.: 20210296

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Micro Methods
Date: June 29, 2021

General Information:
12 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, LLC
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PROJECT NARRATIVE

Project: 2105488
Pace Project No.: 20210296

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Micro Methods
Date: June 29, 2021

General Information:
12 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2105488
Pace Project No.: 20210296

Sample: 2105488-01 **Lab ID: 20210296001** Collected: 05/26/21 12:00 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.228 ± 0.419 (0.747) C:NA T:91%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.247 ± 0.551 (1.22) C:65% T:83%**	pCi/L	06/28/21 14:52	15262-20-1	

Sample: 2105488-02 **Lab ID: 20210296002** Collected: 05/26/21 10:48 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.168 ± 0.396 (0.733) C:NA T:94%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**2.31 ± 0.904 (1.45) C:67% T:87%**	pCi/L	06/28/21 18:12	15262-20-1	

Sample: 2105488-03 **Lab ID: 20210296003** Collected: 05/26/21 10:05 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.132 ± 0.409 (0.930) C:NA T:85%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.633 ± 0.569 (1.15) C:68% T:80%**	pCi/L	06/28/21 17:49	15262-20-1	

Sample: 2105488-04 **Lab ID: 20210296004** Collected: 05/26/21 12:55 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.386 ± 0.507 (0.844) C:NA T:90%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.11 ± 0.641 (1.15) C:60% T:91%**	pCi/L	06/28/21 17:49	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(504)469-0333

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2105488
Pace Project No.: 20210296

Sample: 2105488-05 **Lab ID: 20210296005** Collected: 05/26/21 10:55 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.493 ± 0.386 (0.454) C:NA T:89%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.338 ± 0.678 (1.49) C:60% T:81%**	pCi/L	06/28/21 17:49	15262-20-1	

Sample: 2105488-06 **Lab ID: 20210296006** Collected: 05/26/21 12:35 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0520 ± 0.270 (0.625) C:NA T:96%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.158 ± 0.562 (1.27) C:64% T:90%**	pCi/L	06/28/21 17:49	15262-20-1	

Sample: 2105488-07 **Lab ID: 20210296007** Collected: 05/26/21 00:00 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0606 ± 0.356 (0.728) C:NA T:86%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**-0.0364 ± 0.553 (1.30) C:62% T:82%**	pCi/L	06/28/21 17:49	15262-20-1	

Sample: 2105488-08 **Lab ID: 20210296008** Collected: 05/26/21 09:25 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.123 ± 0.451 (0.867) C:NA T:87%**	pCi/L	06/29/21 12:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.544 ± 0.666 (1.41) C:64% T:80%**	pCi/L	06/28/21 17:49	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2105488
Pace Project No.: 20210296

Sample: 2105488-09 **Lab ID: 20210296009** Collected: 05/26/21 12:05 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0652 ± 0.384 (0.783) C:NA T:88%**	pCi/L	06/29/21 12:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.226 ± 0.584 (1.30) C:69% T:81%**	pCi/L	06/28/21 17:50	15262-20-1	

Sample: 2105488-10 **Lab ID: 20210296010** Collected: 05/26/21 11:23 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.000 ± 0.330 (0.715) C:NA T:95%**	pCi/L	06/29/21 12:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.481 ± 0.707 (1.52) C:63% T:80%**	pCi/L	06/28/21 17:50	15262-20-1	

Sample: 2105488-11 **Lab ID: 20210296011** Collected: 05/26/21 08:26 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.181 ± 0.314 (0.561) C:NA T:85%**	pCi/L	06/29/21 12:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.522 ± 0.659 (1.40) C:64% T:89%**	pCi/L	06/28/21 17:50	15262-20-1	

Sample: 2105488-12 **Lab ID: 20210296012** Collected: 05/26/21 08:45 Received: 06/02/21 10:44 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.120 ± 0.499 (1.04) C:NA T:95%**	pCi/L	06/29/21 12:52	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.112 ± 0.445 (1.01) C:66% T:90%**	pCi/L	06/28/21 17:50	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2105488
Pace Project No.: 20210296

QC Batch: 451872 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 20210296001, 20210296002, 20210296003, 20210296004, 20210296005, 20210296006, 20210296007, 20210296008, 20210296009, 20210296010, 20210296011, 20210296012

METHOD BLANK: 2180902 Matrix: Water
Associated Lab Samples: 20210296001, 20210296002, 20210296003, 20210296004, 20210296005, 20210296006, 20210296007, 20210296008, 20210296009, 20210296010, 20210296011, 20210296012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.734 ± 0.392 (0.694) C:67% T:90%	pCi/L	06/28/21 11:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2105488
Pace Project No.: 20210296

QC Batch: 451873 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 20210296001, 20210296002, 20210296003, 20210296004, 20210296005, 20210296006, 20210296007, 20210296008, 20210296009, 20210296010, 20210296011, 20210296012

METHOD BLANK: 2180903 Matrix: Water
Associated Lab Samples: 20210296001, 20210296002, 20210296003, 20210296004, 20210296005, 20210296006, 20210296007, 20210296008, 20210296009, 20210296010, 20210296011, 20210296012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0495 ± 0.257 (0.595) C:NA T:88%	pCi/L	06/29/21 12:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 2105488
Pace Project No.: 20210296

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2105488
Pace Project No.: 20210296

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20210296001	**2105488-01**	EPA 903.1	451873		
20210296002	**2105488-02**	EPA 903.1	451873		
20210296003	**2105488-03**	EPA 903.1	451873		
20210296004	**2105488-04**	EPA 903.1	451873		
20210296005	**2105488-05**	EPA 903.1	451873		
20210296006	**2105488-06**	EPA 903.1	451873		
20210296007	**2105488-07**	EPA 903.1	451873		
20210296008	**2105488-08**	EPA 903.1	451873		
20210296009	**2105488-09**	EPA 903.1	451873		
20210296010	**2105488-10**	EPA 903.1	451873		
20210296011	**2105488-11**	EPA 903.1	451873		
20210296012	**2105488-12**	EPA 903.1	451873		
20210296001	**2105488-01**	EPA 904.0	451872		
20210296002	**2105488-02**	EPA 904.0	451872		
20210296003	**2105488-03**	EPA 904.0	451872		
20210296004	**2105488-04**	EPA 904.0	451872		
20210296005	**2105488-05**	EPA 904.0	451872		
20210296006	**2105488-06**	EPA 904.0	451872		
20210296007	**2105488-07**	EPA 904.0	451872		
20210296008	**2105488-08**	EPA 904.0	451872		
20210296009	**2105488-09**	EPA 904.0	451872		
20210296010	**2105488-10**	EPA 904.0	451872		
20210296011	**2105488-11**	EPA 904.0	451872		
20210296012	**2105488-12**	EPA 904.0	451872		

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
Phone: -
Fax: -

WO# : 20210296

20210296

Work Order: 2105488

Analysis	Due	Expires	Comments
Sample ID: 2105488-01 *Water* *Sampled: 05/26/2021 12:00* *Sample Name: MW-7*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 12:00	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2105488-02 *Water* *Sampled: 05/26/2021 10:48* *Sample Name: MW-9*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 10:48	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2105488-03 *Water* *Sampled: 05/26/2021 10:05* *Sample Name: MW-12*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 10:05	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2105488-04 *Water* *Sampled: 05/26/2021 12:55* *Sample Name: MW-13*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 12:55	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2105488-05 *Water* *Sampled: 05/26/2021 10:55* *Sample Name: MW-14*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 10:55	

Sarah Jarneh	6/01/21 1630	UPS	6/01/21 1630
Released By	Date	Received By	Date
UPS	6/02/21		6/2/2021 1044
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date
Released By	Date	Received By	Date

Work Order: 2105488 (Continued)

Analysis	Due	Expires	Comments
ontainers Supplied:			
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
mple ID: 2105488-06 ***Water Sampled: 05/26/2021 12:35 Sample Name: Field Blank***			
dium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 12:35	
ntainers Supplied:			
000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
mple ID: 2105488-07 ***Water Sampled: 05/26/2021 00:00 Sample Name: Duplicate***			
adium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 00:00	
ontainers Supplied:			
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
ample ID: 2105488-08 ***Water Sampled: 05/26/2021 09:25 Sample Name: OW-2***			
adium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 09:25	
ntainers Supplied:			
000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
mple ID: 2105488-09 ***Water Sampled: 05/26/2021 12:05 Sample Name: CCR-2***			
dium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 12:05	
ntainers Supplied:			
000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
ample ID: 2105488-10 ***Water Sampled: 05/26/2021 11:23 Sample Name: CCR-3***			
adium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 11:23	
ontainers Supplied:			
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
mple ID: 2105488-11 ***Water Sampled: 05/26/2021 08:26 Sample Name: CCR-4***			
dium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 08:26	
ntainers Supplied:			
000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
mple ID: 2105488-12 ***Water Sampled: 05/26/2021 08:45 Sample Name: CCR-5***			

Sarah Jomeh 6/01/21 1630		UPS 6/01/21 1630	
eased By	Date	Received By	Date
UPS 6/02/21			10/2/2021 1044
eased By	Date	Received By	Date
eased By	Date	Received By	Date
eased By	Date	Received By	Date
eased By	Date	Received By	Date

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER
(Continued)

ork Order: 2105488 (Continued)

nalysis	Due	Expires	Comments
ample ID: 2105488-12	***Water***	***Sampled: 05/26/2021 08:45***	***Sample Name: CCR-5***
adium,Total 226 & 228 by EPA 903.1 & 9C	06/04/2021	06/23/2021 08:45	

ontainers Supplied:
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sarah Jones 6/01/21 1630		UPS 6/01/21 1630	
eased By	Date	Received By	Date
UPS 6/02/21		[signature] 6/2/2021 1044	
leased By	Date	Received By	Date
leased By	Date	Received By	Date
eased By	Date	Received By	Date
eased By	Date	Received By	Date

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Condition Upon I

Pro

WO#: 20210296

PM: KHB **Due Date: 06/24/21**

CLIENT: 20-MICRO

Courier: ☐ Pace Courier ☐ Hired Courier ☐ Fed X ☑ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals intact:** ☑Yes ☐No

Therometer Used: ☐ Therm Fisher IR 7 ☐ Therm Fisher IR 10

Type of Ice: Wet Blue (None)

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/3/2021 JMB

Temp must be measured from Temperature blank when present

		Comments:
Temperature Blank Present"?	☐Yes ☐No ☑N/A	1
Chain of Custody Present:	☑Yes ☐No ☐N/A	2
Chain of Custody Complete:	☑Yes ☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	5
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	6
Sufficient Volume:	☑Yes ☐No ☐N/A	7
Correct Containers Used:	☑Yes ☐No ☐N/A	8
Filtered vol. Rec. for Diss. tests	☐Yes ☐No ☑N/A	9
Sample Labels match COC:	☑Yes ☐No ☐N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☑Yes ☐No ☐N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☑Yes ☐No ☐N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	13 If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14
Trip Blank Present:	☐Yes ☑No	15

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

October 08, 2021

Jim Ward

Work Order # : 2109187

Purchase Order #:

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

RE: CGLP CCR Semi Annual

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 09/09/2021 09:25. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
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228-875-6420 Phone
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2109187-01	Water	09/08/2021 09:40	*Cam Clark*	09/09/2021 09:25
OW-2	2109187-02	Water	09/08/2021 11:41	*Cam Clark*	09/09/2021 09:25
MW-13	2109187-03	Water	09/08/2021 09:45	*Cam Clark*	09/09/2021 09:25
MW-7	2109187-04	Water	09/08/2021 11:00	*Cam Clark*	09/09/2021 09:25
MW-14	2109187-05	Water	09/08/2021 12:05	*Cam Clark*	09/09/2021 09:25
Field Blank	2109187-06	Water	09/08/2021 12:35	*Cam Clark*	09/09/2021 09:25
Duplicate	2109187-07	Water	09/08/2021 00:00	*Cam Clark*	09/09/2021 09:25
MW-12	2109187-08	Water	09/08/2021 10:38	*Cam Clark*	09/09/2021 09:25
CCR-2	2109187-09	Water	09/08/2021 12:50	*Cam Clark*	09/09/2021 09:25
CCR-3	2109187-10	Water	09/08/2021 08:38	*Cam Clark*	09/09/2021 09:25
CCR-4	2109187-11	Water	09/08/2021 14:00	*Cam Clark*	09/09/2021 09:25
CCR-5	2109187-12	Water	09/08/2021 08:27	*Cam Clark*	09/09/2021 09:25

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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
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Reported:
10/08/2021 08:54

Sample Receipt Conditions

Date/Time Received: 9/9/2021 9:25:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 9/9/2021 3:16:00PM
Cooler ID: #1119

Shipped by: Fed Ex
Submitted by: Cam Clark
Logged by: Sarah E. Tomek
Receipt Temperature: 0.6 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP
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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

Cooler ID: #1132

Receipt Temperature: 1.4 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP
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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

Cooler ID: #517

Receipt Temperature: 0.9 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Semi-Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	10/08/2021 08:54

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Total Metals-EPA 200.7 Rev 4.4

Qualifiers:

L1 LCS and/or LCSD Recovery Limit exceeded.

Lithium 610.362 [Axial]
1I13041-BS1, 1I13042-BS1

L3 LCS/LCSD Precision Limit exceeded.

Lithium 610.362 [Axial]
1I13041-BSD1, 1I13042-BSD1

Total Metals-EPA 200.8 Rev 5.4

Qualifiers:

L1 LCS and/or LCSD Recovery Limit exceeded.

Antimony [He], Arsenic [NG], Beryllium [He], Cadmium [He], Chromium [He], Cobalt [He], Lead [He], Molybdenum [He]
1I13037-BS1, 1I13040-BS1

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

MW-9

2109187-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**410**	25.0	mg/L	50.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 14:41	SM 4110B 2011	
Sulfate as SO4	ND	250	"	"	"	DLW	"	"	"	
Fluoride	**0.41**	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**913**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.084**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 16:48	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**50.9**	0.100	"	2.0	"	CLV	"	09/27/2021 11:17	"	
Lithium 610.362 [Axial]	**0.087**	0.040	"	1.0	"	CLV	"	09/21/2021 16:48	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:05	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/27/2021 16:29	"	
Beryllium [He]	**0.00374**	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:05	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	**0.0181**	0.00100	"	"	"	CLV	"	09/27/2021 16:29	"	
Lead [He]	**0.00123**	0.00100	"	"	"	CLV	"	09/16/2021 19:05	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Choctaw Generation LP
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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

OW-2

2109187-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**62.1**	5.00	mg/L	10.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 15:13	SM 4110B 2011	
Sulfate as SO4	**122**	50.0	"	"	"	DLW	"	"	"	
Fluoride	**0.25**	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**297**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.046**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 16:59	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**29.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.046**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:22	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:01	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:22	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:01	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:22	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:01	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	09/16/2021 19:22	"	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

MW-13

2109187-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.89**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 15:45	SM 4110B 2011	
Sulfate as SO4	ND	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**138**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.159**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:02	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**17.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:28	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:07	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:28	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:07	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:28	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

MW-7

2109187-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.61**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 16:16	SM 4110B 2011	
Sulfate as SO4	**51.1**	20.0	"	4.0	"	DLW	"	09/13/2021 16:48	"	
Fluoride	ND	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**140**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.082**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:06	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**34.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:34	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:13	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:34	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:13	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:34	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

MW-14

2109187-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**22.4**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 17:20	SM 4110B 2011	
Sulfate as SO4	**7.82**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**78**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.011**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:10	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.504**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:40	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:19	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:40	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:19	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:40	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

Field Blank

2109187-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**2.49**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 17:52	SM 4110B 2011	
Sulfate as SO4	ND	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**24**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:13	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**2.91**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:46	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:24	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:46	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:24	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:46	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

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Duplicate

2109187-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**23.2**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 19:59	SM 4110B 2011	
Sulfate as SO4	**7.03**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**75**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.011**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:17	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.533**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:52	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:36	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:52	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:36	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:52	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Project Number: Semi-Annual
Project Manager: Jim Ward

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MW-12

2109187-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**10.7**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 20:31	SM 4110B 2011	
Sulfate as SO4	**11.1**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**253**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.174**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:21	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**24.6**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 19:58	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:42	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:58	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	**0.00665**	0.00100	"	"	"	CLV	"	09/20/2021 15:42	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 19:58	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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CCR-2

2109187-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**2.72**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 22:07	SM 4110B 2011	
Sulfate as SO4	**15.7**	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**109**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.094**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:24	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**11.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 20:04	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/20/2021 15:48	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:04	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	CLV	"	09/20/2021 15:48	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:04	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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CCR-3

2109187-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**5.00**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 22:39	SM 4110B 2011	
Sulfate as SO4	**292**	100	"	20.0	"	DLW	"	09/13/2021 23:11	"	
Fluoride	**0.24**	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**436**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.064**	0.010	mg/L	1.0	1I13041	CLV	09/13/2021 09:40	09/21/2021 17:28	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**30.0**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.104**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13040	CLV	09/13/2021 09:30	09/16/2021 20:21	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/23/2021 16:36	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:21	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	**0.0206**	0.00100	"	"	"	CLV	"	09/23/2021 16:36	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:21	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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CCR-4

2109187-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**7.79**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/13/2021 23:43	SM 4110B 2011	
Sulfate as SO4	**33.9**	10.0	"	2.0	"	DLW	"	09/14/2021 00:15	"	
Fluoride	ND	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**196**	1	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.130**	0.010	mg/L	1.0	1I13042	CLV	09/13/2021 09:40	09/21/2021 16:25	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**20.0**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13037	CLV	09/13/2021 08:50	09/16/2021 20:27	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/23/2021 16:42	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:27	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	**0.00369**	0.00100	"	"	"	CLV	"	09/23/2021 16:42	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:27	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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CCR-5

2109187-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**6.54**	0.500	mg/L	1.0	1I14031	DLW	09/13/2021 09:34	09/14/2021 00:46	SM 4110B 2011	
Sulfate as SO4	**612**	500	"	100.0	"	DLW	"	09/14/2021 01:18	"	
Fluoride	ND	0.22	"	1.0	1I10020	TKM	09/10/2021 08:35	09/10/2021 11:16	SM 4500-F C 2011	
Total Dissolved Solids	**834**	2	"	"	1I13055	DLW	09/13/2021 13:00	09/14/2021 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.044**	0.010	mg/L	1.0	1I13042	CLV	09/13/2021 09:40	09/21/2021 16:29	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	**0.102**	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**101**	0.250	"	5.0	"	CLV	"	09/27/2021 11:29	"	
Lithium 610.362 [Axial]	**0.070**	0.040	"	1.0	"	CLV	"	09/21/2021 16:29	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	1I13037	CLV	09/13/2021 08:50	09/16/2021 20:33	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	CLV	"	09/23/2021 16:48	"	
Beryllium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:33	"	
Chromium [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Cobalt [He]	**0.0105**	0.00100	"	"	"	CLV	"	09/23/2021 16:48	"	
Lead [He]	ND	0.00100	"	"	"	CLV	"	09/16/2021 20:33	"	
Molybdenum [He]	ND	0.00100	"	"	"	CLV	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	CLV	"	"	"	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I10020 - Default Prep GenChem											
Blank (1I10020-BLK1)											
Fluoride	9/10/21 11:16	ND	0.22	mg/L							
LCS (1I10020-BS1)											
Fluoride	9/10/21 11:16	1.91	0.22	mg/L	2.00		95.5	83.3-107			
LCS Dup (1I10020-BSD1)											
Fluoride	9/10/21 11:16	1.92	0.22	mg/L	2.00		96.0	83.3-107	0.522	30	
Duplicate (1I10020-DUP1)			**Source: 2109187-01**								
Fluoride	9/10/21 11:16	0.41	0.22	mg/L		0.41			0.244	20	
Duplicate (1I10020-DUP2)			**Source: 2109163-01**								
Fluoride	9/10/21 11:16	0.49	0.22	mg/L		0.48			0.828	20	
Matrix Spike (1I10020-MS1)			**Source: 2109187-01**								
Fluoride	9/10/21 11:16	2.32	0.22	mg/L	2.00	0.41	95.6	79.3-113			
Matrix Spike (1I10020-MS2)			**Source: 2109163-01**								
Fluoride	9/10/21 11:16	2.50	0.22	mg/L	2.00	0.48	101	79.3-113			
Matrix Spike Dup (1I10020-MSD1)			**Source: 2109187-01**								
Fluoride	9/10/21 11:16	2.37	0.22	mg/L	2.00	0.41	98.0	79.3-113	2.13	30	
Matrix Spike Dup (1I10020-MSD2)			**Source: 2109163-01**								
Fluoride	9/10/21 11:16	2.51	0.22	mg/L	2.00	0.48	101	79.3-113	0.399	30	
Batch 1I13055 - Default Prep GenChem											
Blank (1I13055-BLK1)											
Total Dissolved Solids	9/14/21 0:00	ND	1	mg/L							

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13055 - Default Prep GenChem											
LCS (1I13055-BS1)											
Total Dissolved Solids	9/14/21 0:00	113	1	mg/L	150		75.3	65-105			
LCS Dup (1I13055-BSD1)											
Total Dissolved Solids	9/14/21 0:00	119	1	mg/L	150		79.3	65-105	5.17	15	
Duplicate (1I13055-DUP1)			**Source: 2109163-01**								
Total Dissolved Solids	9/14/21 0:00	431	1	mg/L		426			1.17	10	
Duplicate (1I13055-DUP2)			**Source: 2109187-12**								
Total Dissolved Solids	9/14/21 0:00	842	2	mg/L		834			0.955	10	
Batch 1I14031 - Default Prep GenChem											
Blank (1I14031-BLK1)											
Chloride	9/13/21 13:38	ND	0.500	mg/L							
Sulfate as SO4	9/13/21 13:38	ND	5.00	"							
LCS (1I14031-BS1)											
Chloride	9/13/21 12:34	9.77	0.500	mg/L	10.0		97.7	81.8-111			
Sulfate as SO4	9/13/21 12:34	9.60	5.00	"	10.0		96.0	85.6-111			
LCS Dup (1I14031-BSD1)											
Chloride	9/13/21 13:06	10.1	0.500	mg/L	10.0		101	81.8-111	3.36	20	
Sulfate as SO4	9/13/21 13:06	9.73	5.00	"	10.0		97.3	85.6-111	1.39	20	
Duplicate (1I14031-DUP1)			**Source: 2109187-06**								
Chloride	9/13/21 18:24	2.48	0.500	mg/L		2.49			0.161	20	
Sulfate as SO4	9/13/21 18:24	ND	5.00	"		ND				20	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I14031 - Default Prep GenChem											
Matrix Spike (1I14031-MS1)			**Source: 2109187-06**								
Chloride	9/13/21 18:55	14.9	0.500	mg/L	12.0	2.49	104	75.3-124			
Sulfate as SO4	9/13/21 18:55	12.9	5.00	"	12.0	ND	108	60.6-139			
Matrix Spike Dup (1I14031-MSD1)			**Source: 2109187-06**								
Chloride	9/13/21 19:27	15.5	0.500	mg/L	12.0	2.49	109	75.3-124	4.15	20	
Sulfate as SO4	9/13/21 19:27	10.9	5.00	"	12.0	ND	90.9	60.6-139	17.0	20	

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: Semi-Annual
Project Manager: Jim Ward

Reported:
10/08/2021 08:54

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13041 - EPA 200.2 DCN 1017 Rev 10											
Blank (1I13041-BLK1)											
Barium 455.403 [Radial]	9/21/21 16:00	ND	0.010	mg/L							
Boron 249.773 [Radial]	9/21/21 16:00	ND	0.050	"							
Calcium 315.887 [Radial]	9/21/21 16:00	ND	0.050	"							
Lithium 610.362 [Axial]	9/21/21 16:00	ND	0.040	"							
LCS (1I13041-BS1)											
Barium 455.403 [Radial]	9/21/21 16:03	0.212	0.010	mg/L	0.200		106	85-115			
Boron 249.773 [Radial]	9/21/21 16:03	0.207	0.050	"	0.200		104	85-115			
Calcium 315.887 [Radial]	9/21/21 16:03	0.217	0.050	"	0.200		109	85-115			
Lithium 610.362 [Axial]	9/21/21 16:03	0.259	0.040	"	0.200		129	85-115			L1
LCS Dup (1I13041-BSD1)											
Barium 455.403 [Radial]	9/21/21 16:07	0.197	0.010	mg/L	0.200		98.3	85-115	7.43	20	
Boron 249.773 [Radial]	9/21/21 16:07	0.198	0.050	"	0.200		98.9	85-115	4.67	20	
Calcium 315.887 [Radial]	9/21/21 16:07	0.205	0.050	"	0.200		103	85-115	5.63	20	
Lithium 610.362 [Axial]	9/21/21 16:07	0.185	0.040	"	0.200		92.4	85-115	33.3	20	L3
Duplicate (1I13041-DUP1)			**Source: 2109187-01**								
Calcium 315.887 [Radial]	9/27/21 11:21	49.6	0.100	mg/L		50.9			2.62	20	
Matrix Spike (1I13041-MS1)			**Source: 2109187-01**								
Barium 455.403 [Radial]	9/21/21 16:51	0.261	0.010	mg/L	0.200	0.084	88.8	70-130			
Boron 249.773 [Radial]	9/21/21 16:51	0.217	0.050	"	0.200	0.029	93.9	70-130			
Lithium 610.362 [Axial]	9/21/21 16:51	0.265	0.040	"	0.200	0.087	88.8	70-130			
Matrix Spike Dup (1I13041-MSD1)			**Source: 2109187-01**								
Barium 455.403 [Radial]	9/21/21 16:55	0.271	0.010	mg/L	0.200	0.084	93.4	70-130	3.51	20	
Boron 249.773 [Radial]	9/21/21 16:55	0.218	0.050	"	0.200	0.029	94.6	70-130	0.712	20	
Lithium 610.362 [Axial]	9/21/21 16:55	0.266	0.040	"	0.200	0.087	89.3	70-130	0.375	20	

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Choctaw Generation LP
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Project: CGLP CCR Semi Annual
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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13042 - EPA 200.2 DCN 1017 Rev 10											
Blank (1I13042-BLK1)											
Barium 455.403 [Radial]	9/21/21 16:00	ND	0.010	mg/L							
Boron 249.773 [Radial]	9/21/21 16:00	ND	0.050	"							
Calcium 315.887 [Radial]	9/21/21 16:00	ND	0.050	"							
Lithium 610.362 [Axial]	9/21/21 16:00	ND	0.040	"							
LCS (1I13042-BS1)											
Barium 455.403 [Radial]	9/21/21 16:03	0.212	0.010	mg/L	0.200		106	85-115			
Boron 249.773 [Radial]	9/21/21 16:03	0.207	0.050	"	0.200		104	85-115			
Calcium 315.887 [Radial]	9/21/21 16:03	0.217	0.050	"	0.200		109	85-115			
Lithium 610.362 [Axial]	9/21/21 16:03	0.259	0.040	"	0.200		129	85-115			L1
LCS Dup (1I13042-BSD1)											
Barium 455.403 [Radial]	9/21/21 16:07	0.197	0.010	mg/L	0.200		98.3	85-115	7.43	20	
Boron 249.773 [Radial]	9/21/21 16:07	0.198	0.050	"	0.200		98.9	85-115	4.67	20	
Calcium 315.887 [Radial]	9/21/21 16:07	0.205	0.050	"	0.200		103	85-115	5.63	20	
Lithium 610.362 [Axial]	9/21/21 16:07	0.185	0.040	"	0.200		92.4	85-115	33.3	20	L3
Duplicate (1I13042-DUP1)			**Source: 2109163-01**								
Calcium 315.887 [Radial]	9/21/21 16:22	2.93	0.050	mg/L		2.83			3.47	20	
Matrix Spike (1I13042-MS1)			**Source: 2109163-01**								
Barium 455.403 [Radial]	9/21/21 16:18	0.217	0.010	mg/L	0.200	0.011	103	70-130			
Boron 249.773 [Radial]	9/21/21 16:18	0.717	0.050	"	0.200	0.477	120	70-130			
Lithium 610.362 [Axial]	9/21/21 16:18	0.390	0.040	"	0.400	0.014	94.0	70-130			
Matrix Spike Dup (1I13042-MSD1)			**Source: 2109163-01**								
Barium 455.403 [Radial]	9/21/21 16:22	0.206	0.010	mg/L	0.200	0.011	97.8	70-130	4.80	20	
Boron 249.773 [Radial]	9/21/21 16:22	0.657	0.050	"	0.200	0.477	90.0	70-130	8.66	20	
Lithium 610.362 [Axial]	9/21/21 16:22	0.371	0.040	"	0.400	0.014	89.3	70-130	4.95	20	

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13037 - EPA 200.2 DCN 1017 Rev 10											
Blank (1I13037-BLK1)											
Antimony [He]	9/16/21 17:03	ND	0.00200	mg/L							
Arsenic [NG]	9/20/21 14:25	ND	0.00200	"							
Beryllium [He]	9/20/21 14:25	ND	0.00100	"							
Cadmium [He]	9/16/21 17:03	ND	0.00100	"							
Chromium [He]	9/16/21 17:03	ND	0.00100	"							
Cobalt [He]	9/20/21 14:25	ND	0.00100	"							
Lead [He]	9/16/21 17:03	ND	0.00100	"							
Molybdenum [He]	9/16/21 17:03	ND	0.00100	"							
Selenium [NG]	9/16/21 17:03	ND	0.00500	"							
Selenium [He]	9/16/21 17:03	ND	0.00100	"							
LCS (1I13037-BS1)											
Antimony [He]	9/16/21 17:09	0.121	0.00200	mg/L	0.100		121	85-115			L1
Arsenic [NG]	9/20/21 14:31	0.116	0.00200	"	0.100		116	85-115			L1
Beryllium [He]	9/20/21 14:31	0.123	0.00100	"	0.100		123	85-115			L1
Cadmium [He]	9/16/21 17:09	0.114	0.00100	"	0.100		114	85-115			
Chromium [He]	9/16/21 17:09	0.117	0.00100	"	0.100		117	85-115			L1
Cobalt [He]	9/20/21 14:31	0.125	0.00100	"	0.100		125	85-115			L1
Lead [He]	9/16/21 17:09	0.115	0.00100	"	0.100		115	85-115			
Molybdenum [He]	9/16/21 17:09	0.114	0.00100	"	0.100		114	85-115			
Selenium [NG]	9/16/21 17:09	0.109	0.00500	"	0.100		109	85-115			
Selenium [He]	9/16/21 17:09	0.100	0.00100	"	0.100		100	85-115			
LCS Dup (1I13037-BSD1)											
Antimony [He]	9/16/21 17:15	0.110	0.00200	mg/L	0.100		110	85-115	9.14	20	
Arsenic [NG]	9/20/21 14:37	0.108	0.00200	"	0.100		108	85-115	6.94	20	
Beryllium [He]	9/20/21 14:37	0.114	0.00100	"	0.100		114	85-115	7.40	20	
Cadmium [He]	9/16/21 17:15	0.103	0.00100	"	0.100		103	85-115	9.55	20	
Chromium [He]	9/16/21 17:15	0.106	0.00100	"	0.100		106	85-115	10.4	20	
Cobalt [He]	9/20/21 14:37	0.114	0.00100	"	0.100		114	85-115	8.56	20	
Lead [He]	9/16/21 17:15	0.105	0.00100	"	0.100		105	85-115	9.06	20	
Molybdenum [He]	9/16/21 17:15	0.105	0.00100	"	0.100		105	85-115	7.91	20	
Selenium [NG]	9/16/21 17:15	0.102	0.00500	"	0.100		102	85-115	6.09	20	
Selenium [He]	9/16/21 17:15	0.093	0.00100	"	0.100		93.0	85-115	7.36	20	

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13037 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (1I13037-MS1)			**Source: 2109162-01**								
Antimony [He]	9/16/21 17:26	0.111	0.00200	mg/L	0.100	0.0005	110	70-130			
Beryllium [He]	9/20/21 14:48	0.113	0.00100	"	0.100	ND	113	70-130			
Cadmium [He]	9/16/21 17:26	0.103	0.00100	"	0.100	0.0007	102	70-130			
Chromium [He]	9/16/21 17:26	0.107	0.00100	"	0.100	0.001	106	70-130			
Cobalt [He]	9/20/21 14:48	0.111	0.00100	"	0.100	ND	111	70-130			
Lead [He]	9/16/21 17:26	0.106	0.00100	"	0.100	0.002	105	70-130			
Molybdenum [He]	9/16/21 17:26	0.145	0.00100	"	0.100	0.036	109	70-130			
Selenium [He]	9/16/21 17:26	0.092	0.00100	"	0.100	0.0006	90.9	70-130			
Selenium [NG]	9/16/21 17:26	0.097	0.00500	"	0.100	0.002	97.0	70-130			
Matrix Spike Dup (1I13037-MSD1)			**Source: 2109162-01**								
Antimony [He]	9/16/21 17:32	0.111	0.00200	mg/L	0.100	0.0005	110	70-130	0.0104	20	
Beryllium [He]	9/20/21 14:54	0.116	0.00100	"	0.100	ND	116	70-130	2.22	20	
Cadmium [He]	9/16/21 17:32	0.103	0.00100	"	0.100	0.0007	103	70-130	0.462	20	
Chromium [He]	9/16/21 17:32	0.109	0.00100	"	0.100	0.001	108	70-130	1.81	20	
Cobalt [He]	9/20/21 14:54	0.113	0.00100	"	0.100	ND	113	70-130	1.43	20	
Lead [He]	9/16/21 17:32	0.107	0.00100	"	0.100	0.002	105	70-130	0.481	20	
Molybdenum [He]	9/16/21 17:32	0.148	0.00100	"	0.100	0.036	111	70-130	1.58	20	
Selenium [He]	9/16/21 17:32	0.090	0.00100	"	0.100	0.0006	89.1	70-130	2.02	20	
Selenium [NG]	9/16/21 17:32	0.097	0.00500	"	0.100	0.002	97.0	70-130	0.0720	20	
Batch 1I13040 - EPA 200.2 DCN 1017 Rev 10											
Blank (1I13040-BLK1)											
Antimony [He]	9/16/21 18:48	ND	0.00200	mg/L							
Arsenic [NG]	9/20/21 14:25	ND	0.00200	"							
Beryllium [He]	9/20/21 14:25	ND	0.00100	"							
Cadmium [He]	9/16/21 18:48	ND	0.00100	"							
Chromium [He]	9/16/21 18:48	ND	0.00100	"							
Cobalt [He]	9/20/21 14:25	ND	0.00100	"							
Lead [He]	9/16/21 18:48	ND	0.00100	"							
Molybdenum [He]	9/16/21 18:48	ND	0.00100	"							
Selenium [NG]	9/16/21 18:48	ND	0.00500	"							

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13040 - EPA 200.2 DCN 1017 Rev 10											
LCS (1I13040-BS1)											
Antimony [He]	9/20/21 14:31	0.116	0.00200	mg/L	0.100		116	85-115			L1
Arsenic [NG]	9/20/21 14:31	0.116	0.00200	"	0.100		116	85-115			L1
Beryllium [He]	9/20/21 14:31	0.123	0.00100	"	0.100		123	85-115			L1
Cadmium [He]	9/20/21 14:31	0.121	0.00100	"	0.100		121	85-115			L1
Chromium [He]	9/20/21 14:31	0.123	0.00100	"	0.100		123	85-115			L1
Cobalt [He]	9/20/21 14:31	0.125	0.00100	"	0.100		125	85-115			L1
Lead [He]	9/20/21 14:31	0.119	0.00100	"	0.100		119	85-115			L1
Molybdenum [He]	9/20/21 14:31	0.119	0.00100	"	0.100		119	85-115			L1
Selenium [NG]	9/16/21 18:53	0.110	0.00500	"	0.100		110	85-115			
LCS Dup (1I13040-BSD1)											
Antimony [He]	9/16/21 18:59	0.112	0.00200	mg/L	0.100		112	85-115	3.31	20	
Arsenic [NG]	9/20/21 14:37	0.108	0.00200	"	0.100		108	85-115	6.94	20	
Beryllium [He]	9/20/21 14:37	0.114	0.00100	"	0.100		114	85-115	7.40	20	
Cadmium [He]	9/16/21 18:59	0.106	0.00100	"	0.100		106	85-115	13.1	20	
Chromium [He]	9/16/21 18:59	0.110	0.00100	"	0.100		110	85-115	11.1	20	
Cobalt [He]	9/20/21 14:37	0.114	0.00100	"	0.100		114	85-115	8.56	20	
Lead [He]	9/16/21 18:59	0.107	0.00100	"	0.100		107	85-115	10.8	20	
Molybdenum [He]	9/16/21 18:59	0.107	0.00100	"	0.100		107	85-115	10.4	20	
Selenium [NG]	9/16/21 18:59	0.104	0.00500	"	0.100		104	85-115	5.44	20	
Matrix Spike (1I13040-MS1)			**Source: 2109187-01**								
Antimony [He]	9/16/21 19:11	0.111	0.00200	mg/L	0.100	ND	111	70-130			
Arsenic [NG]	9/27/21 16:35	0.109	0.00200	"	0.100	0.0007	109	70-130			
Beryllium [He]	9/27/21 16:35	0.098	0.00100	"	0.100	0.004	94.7	70-130			
Cadmium [He]	9/16/21 19:11	0.099	0.00100	"	0.100	0.0007	97.8	70-130			
Chromium [He]	9/16/21 19:11	0.096	0.00100	"	0.100	ND	95.7	70-130			
Cobalt [He]	9/27/21 16:35	0.111	0.00100	"	0.100	0.018	92.6	70-130			
Lead [He]	9/16/21 19:11	0.114	0.00100	"	0.100	0.001	113	70-130			
Molybdenum [He]	9/16/21 19:11	0.113	0.00100	"	0.100	0.0004	112	70-130			
Selenium [NG]	9/16/21 19:11	0.098	0.00500	"	0.100	0.003	95.1	70-130			

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 1I13040 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (1I13040-MSD1)			**Source: 2109187-01**								
Antimony [He]	9/16/21 19:17	0.111	0.00200	mg/L	0.100	ND	111	70-130	0.671	20	
Arsenic [NG]	9/27/21 16:41	0.109	0.00200	"	0.100	0.0007	109	70-130	0.409	20	
Beryllium [He]	9/27/21 16:41	0.103	0.00100	"	0.100	0.004	98.8	70-130	4.05	20	
Cadmium [He]	9/16/21 19:17	0.098	0.00100	"	0.100	0.0007	97.5	70-130	0.345	20	
Chromium [He]	9/16/21 19:17	0.097	0.00100	"	0.100	ND	97.4	70-130	1.80	20	
Cobalt [He]	9/27/21 16:41	0.114	0.00100	"	0.100	0.018	95.4	70-130	2.54	20	
Lead [He]	9/16/21 19:17	0.112	0.00100	"	0.100	0.001	111	70-130	1.28	20	
Molybdenum [He]	9/16/21 19:17	0.114	0.00100	"	0.100	0.0004	114	70-130	0.997	20	
Selenium [NG]	9/16/21 19:17	0.099	0.00500	"	0.100	0.003	96.1	70-130	0.974	20	

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Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Semi Annual Project Number: Semi-Annual Project Manager: Jim Ward	**Reported:** 10/08/2021 08:54

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 237.312 [Radial]	C01,C02
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Lithium 610.362 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Tin 189.989 [Axial]	C01,C02
Titanium 334.941 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02

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2391 Pensacola Rd.	Project Number: Semi-Annual	**Reported:**
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Arsenic [He]	C01
Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01
Cadmium [HHe]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01
Selenium [HHe]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

SM 2540 C-2011 in Water

Total Dissolved Solids	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Semi Annual Project Number: Semi-Annual Project Manager: Jim Ward	**Reported:** 10/08/2021 08:54

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	*LA Environmental Lab Accreditation Program*	*01960*	*06/30/2022*
C02	*The NELAC Institute (NELAP)*	*TNI01397*	*06/30/2022*
C03	*Ms Dept of Health (Drinking Water Microbiology)*	*MS00021*	*12/31/2021*
C04	*Ms Dept of Health (Drinking Water Chemistry)*	*MS00021*	*12/31/2021*
C05	*Ms DEQ Lead Firm Certification*	*PBF-00000028*	*03/24/2022*
C06	*MsDEQ Asbestos Inspector : C.D. Bingham*	*ABI-00001348*	*02/12/2022*
C07	*MsDEQ Air Monitor : C.D. Bingham*	*AM-011572*	*02/13/2022*
C08	*MsDEQ Asbestos Inspector: C. W. Meins*	*ABI-00001821*	*09/09/2022*
C09	*MsDEQ Air Monitor : C.W. Meins*	*AM-011189*	*02/13/2022*
C14	*MsDEQ Lead Paint Inspector : C.D. Bingham*	*PBI-00003690*	*03/24/2022*
C15	*MsDEQ Lead Paint Inspector : C.W. Meins*	*PBI-00001740*	*03/24/2022*

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: Semi-Annual	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	10/08/2021 08:54

Analyst Initials Key

FullName	Initials
Charles L Vorhoff	CLV
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Teresa Meins	TKM
Tina Tomek	TPT
Zain A Kleist	ZAK

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

pg 1 of 2

Print Form

M-M Lab WO # 2109187

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address :
Phone: 662-387-5758	Sampler Name Printed: Kim Strahan / Cam Clark
Fax:	Sampler Name Signed: / Cam Clark

Turn Around Time & Reporting
Our normal turn around time is 10 working days
X Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 [ ] Level 2 [ ] Level 3 [ ]

Project Name: CGLP CCR
Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	Preservative: # of Containers	Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron, Beryllium	Cadmium, Chromium	Lead, Calcium, Cobalt	Lithium	Molybendum, Selenium	Total Radium 226 & 228
MW-9	09/08/21 09:40	W	4	G	X	X	X	X	X	X	X	X	X
OW-2	09/08/21 11:41	W	4	G	X	X	X	X	X	X	X	X	X
MW-13	09/08/21 09:45	W	4	G	X	X	X	X	X	X	X	X	X
MW-7	09/08/21 11:10	W	4	G	X	X	X	X	X	X	X	X	X
MW-14	09/08/21 12:05	W	4	G	X	X	X	X	X	X	X	X	X
Field Blank	09/08/21 12:35	W	4	G	X	X	X	X	X	X	X	X	X
Duplicate		W	4	G	X	X	X	X	X	X	X	X	X
MW-12	09/08/21 10:38	W	4	G	X	X	X	X	X	X	X	X	X
CCR-2	09/08/21 12:50	W	4	G	X	X	X	X	X	X	X	X	X
CCR-3	09/08/21 08:38	W	4	G	X	X	X	X	X	X	X	X	X
CCR-4	09/08/21 14:00	W	4	G	X	X	X	X	X	X	X	X	X

Received on Ice (Y) N Thermometer# 5 Cooler #_____ Receipt Temp Corrected(°C)
Date & Time _____ By: ST Sample____ Blank X Cooler____

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Cam Clark	C Clark	ECS	9/8/21	16:10
Received by	Fed Ex				
Relinquished by	Fed Ex				
Received by	Sarah Tomek	Sarah Tomek	MM	9/9/21	0925
Relinquished by					
Received by					

Notes:
cooler# 517 0.9°c
cooler# 1119 0.6°c
cooler# 1132 1.4°c

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

Print Form

pg 2 of 2

M-M Lab WO # 2109187

Company Name:	Choctaw Generation Limited Partnership LLLP
Address:	2391 Pensacola Rd.
City:	Ackerman
State:	MS
Zip:	39735
Phone:	662-387-5758
Fax:	
Project Manager:	Jim Ward
Purchase Order #:	
Email Address :	
Sampler Name Printed:	Kirk Shelton / Cam Clark
Sampler Name Signed:	

Turn Around Time & Reporting

Our normal turn around time is 10 working days

☒ Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
__Email

QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR

Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron, Beryllium	Cadmium, Chromium	Lead, Calcium, Cobalt	Lithium	Molybdendum, Selenium	Total Radium 226 & 228
Preservative:													
CCR-5	09/08/21 08:27	W	4	G	X	X	X	X	X	X	X	X	X

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y (O) N Thermometer# 5g Cooler #_____ **Receipt Temp Corrected(°C)**

Date & Time _____ By: 8J Sample____ Blank X Cooler_____

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Cam Clark	C Clk	CTS	9/8/21	16:10
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	9/09/21	0925
Relinquished by					
Received by					

Notes:

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 07, 2021

Tina Tomek
Micro-Methods Lab
6500 Sunplex Drive
Ocean Springs, MS 39564

RE: Project: 2109187
Pace Project No.: 30441480

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carin A. Ferris

Carin Ferris
carin.ferris@pacelabs.com
724-850-5615
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2109187
Pace Project No.: 30441480

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2109187
Pace Project No.: 30441480

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30441480001	**2109187-01**	Water	09/08/21 09:40	09/16/21 10:10
30441480002	**2109187-02**	Water	09/08/21 11:41	09/16/21 10:10
30441480003	**2109187-03**	Water	09/08/21 09:45	09/16/21 10:10
30441480004	**2109187-04**	Water	09/08/21 11:00	09/16/21 10:10
30441480005	**2109187-05**	Water	09/08/21 12:05	09/16/21 10:10
30441480006	**2109187-06**	Water	09/08/21 12:35	09/16/21 10:10
30441480007	**2109187-07**	Water	09/08/21 00:00	09/16/21 10:10
30441480008	**2109187-08**	Water	09/08/21 10:38	09/16/21 10:10
30441480009	**2109187-09**	Water	09/08/21 12:50	09/16/21 10:10
30441480010	**2109187-10**	Water	09/08/21 08:38	09/16/21 10:10
30441480011	**2109187-11**	Water	09/08/21 14:00	09/16/21 10:10
30441480012	**2109187-12**	Water	09/08/21 08:27	09/16/21 10:10

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2109187
Pace Project No.: 30441480

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30441480001	**2109187-01**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480002	**2109187-02**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480003	**2109187-03**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480004	**2109187-04**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480005	**2109187-05**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480006	**2109187-06**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480007	**2109187-07**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480008	**2109187-08**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480009	**2109187-09**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480010	**2109187-10**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480011	**2109187-11**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1
30441480012	**2109187-12**	EPA 903.1	SLC	1
		EPA 904.0	JC2	1

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2109187
Pace Project No.: 30441480

Sample: 2109187-01 **Lab ID: 30441480001** Collected: 09/08/21 09:40 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • One bottle received empty.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.911 ± 0.736 (0.411) C:NA T:99%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.251 ± 0.629 (1.41) C:73% T:89%**	pCi/L	10/05/21 14:37	15262-20-1	

Sample: 2109187-02 **Lab ID: 30441480002** Collected: 09/08/21 11:41 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.000 ± 0.282 (0.455) C:NA T:93%**	pCi/L	10/06/21 14:27	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.655 ± 0.388 (0.710) C:74% T:91%**	pCi/L	10/05/21 14:37	15262-20-1	

Sample: 2109187-03 **Lab ID: 30441480003** Collected: 09/08/21 09:45 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.524 ± 0.383 (0.428) C:NA T:98%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.24 ± 0.502 (0.809) C:72% T:92%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-04 **Lab ID: 30441480004** Collected: 09/08/21 11:00 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.377 ± 0.351 (0.462) C:NA T:98%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.599 ± 0.429 (0.833) C:67% T:85%**	pCi/L	10/05/21 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2109187
Pace Project No.: 30441480

Sample: 2109187-05 **Lab ID: 30441480005** Collected: 09/08/21 12:05 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.000 ± 0.279 (0.625) C:NA T:104%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.710 ± 0.413 (0.763) C:74% T:87%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-06 **Lab ID: 30441480006** Collected: 09/08/21 12:35 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • One bottle received empty.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.303 ± 0.692 (0.411) C:NA T:95%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**-0.210 ± 0.764 (1.80) C:72% T:90%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-07 **Lab ID: 30441480007** Collected: 09/08/21 00:00 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.414 ± 0.430 (0.640) C:NA T:100%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.934 ± 0.452 (0.787) C:68% T:98%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-08 **Lab ID: 30441480008** Collected: 09/08/21 10:38 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.237 ± 0.521 (0.941) C:NA T:99%**	pCi/L	10/06/21 14:16	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.964 ± 0.447 (0.757) C:74% T:86%**	pCi/L	10/05/21 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2109187
Pace Project No.: 30441480

Sample: 2109187-09 **Lab ID: 30441480009** Collected: 09/08/21 12:50 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.331 ± 0.392 (0.616) C:NA T:99%**	pCi/L	10/06/21 14:38	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.577 ± 0.426 (0.836) C:70% T:86%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-10 **Lab ID: 30441480010** Collected: 09/08/21 08:38 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.380 ± 0.395 (0.589) C:NA T:94%**	pCi/L	10/06/21 14:38	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.853 ± 0.460 (0.836) C:72% T:90%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-11 **Lab ID: 30441480011** Collected: 09/08/21 14:00 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.431 ± 0.448 (0.668) C:NA T:94%**	pCi/L	10/06/21 14:38	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.848 ± 0.441 (0.784) C:69% T:92%**	pCi/L	10/05/21 14:35	15262-20-1	

Sample: 2109187-12 **Lab ID: 30441480012** Collected: 09/08/21 08:27 Received: 09/16/21 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.184 ± 0.281 (0.451) C:NA T:98%**	pCi/L	10/06/21 14:49	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.437 ± 0.395 (0.806) C:71% T:89%**	pCi/L	10/05/21 14:35	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2109187
Pace Project No.: 30441480

QC Batch: 465325 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30441480001, 30441480002, 30441480003, 30441480004, 30441480005, 30441480006, 30441480007, 30441480008, 30441480009, 30441480010, 30441480011, 30441480012

METHOD BLANK: 2247040 Matrix: Water
Associated Lab Samples: 30441480001, 30441480002, 30441480003, 30441480004, 30441480005, 30441480006, 30441480007, 30441480008, 30441480009, 30441480010, 30441480011, 30441480012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0918 ± 0.285 (0.551) C:NA T:98%	pCi/L	10/06/21 13:53	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2109187
Pace Project No.: 30441480

QC Batch: 465326 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30441480001, 30441480002, 30441480003, 30441480004, 30441480005, 30441480006, 30441480007, 30441480008, 30441480009, 30441480010, 30441480011, 30441480012

METHOD BLANK: 2247041 Matrix: Water
Associated Lab Samples: 30441480001, 30441480002, 30441480003, 30441480004, 30441480005, 30441480006, 30441480007, 30441480008, 30441480009, 30441480010, 30441480011, 30441480012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.533 ± 0.386 (0.749) C:67% T:86%	pCi/L	10/05/21 11:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 2109187
Pace Project No.: 30441480

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WO# : 30441480

30441480

SUBCONTRACT ORDER

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical-7
1638 Roseytown Rd. Suites 2, 3, 4
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: -

Attn: Carin Ferris

Work Order: 2109187

Analysis	Due	Expires	Comments
Sample ID: 2109187-01 ***Water*** ***Sampled: 09/08/2021 09:40*** ***Sample Name: MW-9***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 09:40	
Containers Supplied:			001
Sample ID: 2109187-02 ***Water*** ***Sampled: 09/08/2021 11:41*** ***Sample Name: OW-2***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 11:41	
Containers Supplied:			002
Sample ID: 2109187-03 ***Water*** ***Sampled: 09/08/2021 09:45*** ***Sample Name: MW-13***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 09:45	
Containers Supplied:			003
Sample ID: 2109187-04 ***Water*** ***Sampled: 09/08/2021 11:00*** ***Sample Name: MW-7***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 11:00	
Containers Supplied:			004
Sample ID: 2109187-05 ***Water*** ***Sampled: 09/08/2021 12:05*** ***Sample Name: MW-14***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 12:05	
			005

Released By	Date	Received By	Date
Sarah Jarnek	9/13/21 1630	UPS	9/13/21 1630
UPS		[signature] 9/16/21	1010 1032 TAG 9/20/21

Work Order: 2109187 (Continued)

Analysis	Due	Expires	Comments

Containers Supplied:

Sample ID: 2109187-06 ***Water*** ***Sampled: 09/08/2021 12:35*** ***Sample Name: Field Blank***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 12:35

Containers Supplied: 006

Sample ID: 2109187-07 ***Water*** ***Sampled: 09/08/2021 00:00*** ***Sample Name: Duplicate***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 00:00

Containers Supplied: 007

Sample ID: 2109187-08 ***Water*** ***Sampled: 09/08/2021 10:38*** ***Sample Name: MW-12***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 10:38

Containers Supplied: 008

Sample ID: 2109187-09 ***Water*** ***Sampled: 09/08/2021 12:50*** ***Sample Name: CCR-2***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 12:50

Containers Supplied: 009

Sample ID: 2109187-10 ***Water*** ***Sampled: 09/08/2021 08:38*** ***Sample Name: CCR-3***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 08:38

Containers Supplied: 010

Sample ID: 2109187-11 ***Water*** ***Sampled: 09/08/2021 14:00*** ***Sample Name: CCR-4***

Radium,Total 226 & 228 by EPA 903.1 & 9C 09/17/2021 10/06/2021 14:00

Containers Supplied: 011

Sample ID: 2109187-12 ***Water*** ***Sampled: 09/08/2021 08:27*** ***Sample Name: CCR-5*** 0

Released By	Date	Received By	Date
Ismah Jamek	9/13/21 1630	UPS	9/13/21 1630
UPS		[signature] 9/16/21	1010

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER
(Continued)

Work Order: 2109187 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2109187-12 *Water* *Sampled: 09/08/2021 08:27* *Sample Name: CCR-5*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/17/2021	10/06/2021 08:27	
Containers Supplied:			012

WO#: 30441480
PM: CAF **Due Date: 09/23/21**
CLIENT: MICROMETHOD

Released By	Date	Received By	Date
Sarah Jarmeh	9/13/21 1630	UPS	9/13/21 1630
UPS		[signature]	9/14/21 1010

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Micro-Methods Project #

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Label JAG
LIMS Login mk

Tracking #: 1Z 353 063 03 6663 0177

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used — Type of Ice: Wet Blue (None)

Cooler Temperature Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

WO#: 30441480

PM: CAF
CLIENT: MICROMETHOD
Due Date: 09/23/21

Comments:	Yes	No	N/A	pH paper Lot# 10D0411 / Date and Initials of person examining contents: JAG 9/20/21
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:		✓		2. No preservative listed
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:		✓		4. No name or signature
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume: JAG 9/20	✓	✓		9. MW-9 & Field blank - 1 bottle of each
Correct Containers Used:	✓			10. Shipped with no lids/dry.
-Pace Containers Used:				
Containers Intact:		✓		11. MW-9 & Field blank - 1 bottle of each
Orthophosphate field filtered			✓	12. Shipped with no lids/dry.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	✓			16.
All containers meet method preservation requirements.	✓			Initial when completed JAG / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:			✓	18.
Trip Blank Custody Seals Present			✓	
Rad Samples Screened < 0.5 mrem/hr	✓			Initial when completed: JAG / Date: 9/20/21 / Survey Meter SN: 1563

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

APPENDIX C

FIELD SAMPLING DATA

RED HILLS AMU MONITOR WELLS

Monitor Well: CCR-2

Date: 3/15/21

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 48 ft
(Depth to Water)

Maximum Drawdown Depth 51.65 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 36.5 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 542.50 ft

GW Elevation: 494.5 ft
(TOC Elevation - Static Water Level)

Well Volume: 23.72 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/15/21		17:50						
		1L	17:53			0.53	19.3	7.52	202.2
		1	17:56			0.09	18.5	7.51	194.3
			17:59			0.01	18.4	7.36	195.1
		3L	18:02			0.32	18.6	7.38	197.2

Sample Time: 18:05

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS), pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.15 (SWL - Final Depth)

Drawdown/Water Column (%): 3.15% (Total Drawdown / WCH)

Sampler Signature:

Final Depth = 49.15 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

RED HILLS AMU MONITOR WELLS

Monitor Well: CCR-3

Date: 3/15/21

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 24.85 ft
(Depth to Water)

Maximum Drawdown Depth 27.66 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 28.15 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 504.78 ft

GW Elevation: 479.93 ft
(TOC Elevation - Static Water Level)

Well Volume: 18.29 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/15/21		18:20						
		1.0 L	18:23			1.97	19.3	6.82	597.9
		1	18:26			0.68	19.0	6.84	615.4
			18:29			0.22	18.8	6.75	615.9
		4.5 L	18:32			0.42	18.7	6.81	617.7

Sample Time: 18:35

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.1 ft (SWL - Final Depth)

Drawdown/Water Column (%): 3.90% (Total Drawdown / WCH)

Sampler Signature:

Final Depth 25.95

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

RED HILLS AMU MONITOR WELLS

Monitor Well: CCR-4

Date: 3/16/21

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 24.9 ft
(Depth to Water)

Maximum Drawdown Depth 27.71 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 28.1 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 505.68 ft

GW Elevation: 480.78 ft
(TOC Elevation - Static Water Level)

Well Volume: 19.27 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/16/21		10:30						
		1L	10:34			5.33	18.7	6.36	345.6
		1	10:36			3.15	18.3	6.34	345.1
		1	10:38			2.89	18.3	6.33	345.8
		1L	10:40			3.42	18.4	6.32	343.1

Sample Time: 10:43

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.1 ft (SWL - Final Depth)

Drawdown/Water Column (%): 3.91% (Total Drawdown / WCH)

Sampler Signature:

Final Depth = 26 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

RED HILLS AMU MONITOR WELLS

Monitor Well: CCR-5
Date: 3/16/21
Sampling Method: Pumped
Measured Well Depth: 34.55 ft
Static Water Level: 7.36 ft
(Depth to Water)
Maximum Drawdown Depth 10.08 ft
(10% of WCH + SWL)

Well Diameter: 4 inches
Water Column Height: 27.19 ft
(Measured Well Depth - Static Water Level)
TOC Elevation[1]: 470.46 ft
GW Elevation: 463.1 ft
(TOC Elevation - Static Water Level)
Well Volume: 17.67 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/16/21		9:20						
		1L	9:26			237	18	6.14	1528
		1	9:29			312	17.9	6.13	1534
		1	9:32			373	18	6.14	1534
			9:35			492	18	6.14	1534
		5L	9:38			553	18.1	6.17	1532

Sample Time: 9:40
Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.44 (SWL - Final Depth)
Drawdown/Water Column (%): 1.62% (Total Drawdown / WCH)

Sampler Signature: C Clark

Final Depth = 7.8 ft

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

PH, Conductivity, & Temp were all in line there was color to samples not allowing turbidity to line up.

RED HILLS AMU MONITOR WELLS

Monitor Well: MW-7

Date: 3/16/21

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 34.15 ft
(Depth to Water)

Maximum Drawdown Depth 36.43 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 22.77 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 571.76 ft

GW Elevation: 537.61 ft
(TOC Elevation - Static Water Level)

Well Volume: 14.80 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/16/21		13:20						
		1L	13:27			2.59	21.0	6.57	266.2
		1	13:30			1.95	19.5	6.62	253.6
		1	13:33			1.79	19.5	6.38	252.0
		4L	13:36			1.90	19.5	6.42	256.6
						2.02	19.4	6.34	249.2

Sample Time: 13:40

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.6 ft (SWL - Final Depth)

Drawdown/Water Column (%): 2.63% (Total Drawdown / WCH)

Sampler Signature:

Final Depth = 34.75 ft

Field Blank collected Here 13:33

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

RED HILLS AMU MONITOR WELLS

Monitor Well: MW-9

Date: 3/15/21

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 8.5 ft
(Depth to Water)

Maximum Drawdown Depth 9.82 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 13.24 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 480.04 ft

GW Elevation: 471.54 ft
(TOC Elevation - Static Water Level)

Well Volume: 8.60 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/15/21		17:10						
		2L	17:15			0.12	18.6	4.99	1686
		1	17:18			0.64	17.9	4.84	1712
			17:21			1.11	17.7	4.79	1704
		4.5L	17:24			0.01	17.5	4.78	1703

Sample Time: 17:26

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.84 ft (SWL - Final Depth)

Drawdown/Water Column (%): 6.34% (Total Drawdown / WCH)

Sampler Signature: [signature]

Final Depth = 9.34 ft

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2" = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

RED HILLS AMU MONITOR WELLS

Monitor Well: MW-12

Date: 3/15/21

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 5.0 ft
(Depth to Water)

Maximum Drawdown Depth 6.41 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 14.09 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 474.19 ft

GW Elevation: 469.19 ft
(TOC Elevation - Static Water Level)

Well Volume: 9.15 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/15/21		15:45						
		1.0 L	15:50			32.5	16.5	6.70	495.4
			15:53			41.6	15.9	6.76	493.0
			15:56			45.7	16.0	6.68	494.5
			15:59			27.0	15.8	6.64	492.9
			16:02			32.9	15.8	6.64	493.2
			16:05			14.42	15.48	6.55	488.9
			16:08			27.8	16.0	6.67	488.9
			16:11			33.6	16.0	6.56	491.5
		5.0 L	16:14			28.8	15.9	6.53	490.1

Sample Time: 16:20

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.5 (SWL - Final Depth)

Drawdown/Water Column (%): 10% (Total Drawdown / WCH)

CC CLK

Sampler Signature:

Final Depth = 6.5 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

RED HILLS AMU MONITOR WELLS

Monitor Well: MW-13

Date: 3/16/21

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 58.8 ft
(Depth to Water)

Maximum Drawdown Depth 63.52 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 47.2 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 584.48 ft

GW Elevation: 525.68 ft
(TOC Elevation - Static Water Level)

Well Volume: 30.68 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/16/21		11:20						
		1 L	11:28			3.17	22.0	6.78	218.8
		|	11:32			2.10	21.2	6.80	220.8
		|	11:36			1.50	21.5	6.83	225.3
		|	11:40			1.70	21.5	6.90	226.4
		|	11:44			0.68	20.9	6.80	225.7
		|	11:48			0.68	21.0	6.80	227.4
		3.5	11:52			0.54	21.0	6.73	225.7

Sample Time: 11:56

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.65 (SWL - Final Depth)

Drawdown/Water Column (%): 1.38% (Total Drawdown / WCH)

Sampler Signature:

Final Depth = 59.45 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

RED HILLS AMU MONITOR WELLS

Monitor Well: MW-14

Date: 3/16/21

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 28.32 ft
(Depth to Water)

Maximum Drawdown Depth 31.58 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 32.65 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 565.52 ft
(TOC Elevation - Static Water Level)

Well Volume: 21.22 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/16/21		14:08						
		1L	14:11			0.31	21.6	5.99	122.3
		1	14:13			0.62	20.7	5.05	117.8
		1	14:15			0.59	20.6	4.98	117.9
		1L	14:17			0.57	20.7	4.96	119.4

Sample Time: 14:20

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.08 Ft (SWL - Final Depth)

Drawdown/Water Column (%): 3.31% (Total Drawdown / WCH)

Sampler Signature:

Final Depth = 29.4ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

Duplicate taken here.

RED HILLS AMU MONITOR WELLS

Monitor Well: OW-2

Date: 3/15/21

Sampling Method: Pumped

Measured Well Depth: 27.05 ft

Static Water Level: 10.35 ft
(Depth to Water)

Maximum Drawdown Depth 12.02 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 16.7 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 489.40 ft

GW Elevation: 479.05 ft
(TOC Elevation - Static Water Level)

Well Volume: 10.855 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/15/21		16:37						
		1L	16:40			1.43	18.5	6.68	477.5
		1	16:43			0.74	17.9	6.67	470.7
		1	16:46			0.29	17.9	6.70	471.7
		3.5L	16:49			0.42	17.8	6.71	472.0

Sample Time: 16:51

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.95ft (SWL - Final Depth)

Drawdown/Water Column (%): 5.68 (Total Drawdown / WCH)

CCLK

Sampler Signature:

Final Depth = 11.3 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-2

Date: 5/26/2021

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 48.05 ft
(Depth to Water)

Maximum Drawdown Depth 51.70 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 36.45 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 542.50 ft

GW Elevation: 494.45 ft
(TOC Elevation - Static Water Level)

Well Volume: 23.69 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/2021		11:41						
		2.25	11:50			0.25	22.5	7.16	205.6
		1	11:53			0.34	20.8	7.27	186.1
			11:56			0.30	19.9	7.23	185.3
			11:59			0.25	19.6	7.37	182.3
		4.75	12:02			0.23	19.6	7.21	183.5

Sample Time: 12:05

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.35 ft

Drawdown/Water Column (%): 3.70 %

Sampler Signature:

Final Depth: 49.4 ft

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-3

Date: 5/26/2021

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 25.5 ft
(Depth to Water)

Maximum Drawdown Depth 28.25 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 27.5 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 504.78 ft

GW Elevation: 479.28 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.88 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/2021		11:05						
		2.0	11:08			1.98	20.4	6.57	596.8
		1	11:11			1.78	20.0	6.57	592.3
		3.75	11:14			1.4	19.8	6.57	588.1

Sample Time: 11:23

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.31 ft

Drawdown/Water Column (%): 4.76%

Sampler Signature:

Final Depth: 26.81 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-4

Date: 5/26/21

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 25.1 ft
(Depth to Water)

Maximum Drawdown Depth 27.89 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 27.9 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 505.68 ft

GW Elevation: 479.9 ft
(TOC Elevation - Static Water Level)

Well Volume: 18.135 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/21		8:08						
		2.0	8:13			55.0	19.6	7.21	335.0
			8:16			43.8	19.1	7.29	314.2
			8:19			39.2	18.8	7.14	311.9
		3.5	8:22			37.0	18.8	7.17	311.2

Sample Time: 8:26

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1 ft

Drawdown/Water Column (%): 3.5890

Sampler Signature:

Final Depth 26.1 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-5

Date: 5-26-21

Sampling Method: Pumped

Measured Well Depth: 34.55 ft

Static Water Level: 7.71 ft
(Depth to Water)

Maximum Drawdown Depth 10.39 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 26.84 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 470.46 ft

GW Elevation: 462.75 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.45 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5-26-21		7:58						
		9.0	8:30		8.69	252	19.5	6.60	1130
			8:34			247	18.8	6.66	1111
			8:38			244	18.6	6.68	1103
		12.5	8:42	44	8.94	245	18.7	6.64	1109

Sample Time: 08:45

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.23'

Drawdown/Water Column (%): 4.58%

Sampler Signature:

* Lots of iron or orange tint in collected ground water.

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-7

Date: 5-26-21

Well Diameter: 4 inches

Water Column Height: 22.20 ft
(Measured Well Depth - Static Water Level)

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 34.20 ft
(Depth to Water)

Maximum Drawdown Depth 36.42 ft
(10% of WCH + SWL)

TOC Elevation: 571.76 ft

GW Elevation: 537.56 ft
(TOC Elevation - Static Water Level)

Well Volume: 14.76 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5-26-21		1131						
		7.5	1150		35.72	0.80	19.6	6.64	273.7
			1154			0.71	19.6	6.60	273.5
		11.5	1158	27	36.10	0.66	19.6	6.59	271.2

Sample Time: 12:00

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.9'

Drawdown/Water Column (%): 8.55 %

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-9

Date: 5/26/2021

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 8.72 ft
(Depth to Water)

Maximum Drawdown Depth 10.02 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 13.02 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 480.04 ft

GW Elevation: 471.32 ft
(TOC Elevation - Static Water Level)

Well Volume: 8.463 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/2021		10:29						
		2.25	10:36			1.18	19.4	5.60	1626.0
		1	10:39			1.22	18.9	5.27	1629.0
			10:42			1.35	18.8	5.09	1632.0
		4.5	10:45			1.13	18.7	5.05	1628

Sample Time: 10:48

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.79 ft

Drawdown/Water Column (%): 6.1 %

Final Depth: 9.51 ft

BOA

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-12

Date: 5/26/2021

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 6.9 ft
(Depth to Water)

Maximum Drawdown Depth 8.12 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 12.19 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 474.19 ft

GW Elevation: 467.29 ft
(TOC Elevation - Static Water Level)

Well Volume: 7.984 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/2021		9:40						
		2.5	9:49			14.32	19.3	6.31	473.6
			9:52			10.77	18.9	6.44	472.7
			9:55			9.13	18.3	6.29	469.3
			9:58			5.87	18.2	6.29	468.4
		4.25	10:01			5.72	18.7	6.30	468.8

Sample Time: 10:05

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.15

Drawdown/Water Column (%): 9.43

Final Depth: 8.05 ft

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-13

Date: 5-26-21

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 58.14 ft
(Depth to Water)

Maximum Drawdown Depth 62.92 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 47.86 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 584.48 ft

GW Elevation: 526.34 ft
(TOC Elevation - Static Water Level)

Well Volume: 31.10 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5-26-21		12:20						
		7.0	12.43		60.32	1.33	20.9	6.93	122.9
			12:47			0.74	20.8	6.88	121.6
		10.0	12:51		61.56	0.70	20.7	6.87	223.7

Sample Time: 12:55

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft):

Drawdown/Water Column (%):

Sampler Signature:

Field Blank @ 12:35

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-14

Date: 5-26-21

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 28.72 ft
(Depth to Water)

Maximum Drawdown Depth 31.44 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 32.25 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 565.12 ft
(TOC Elevation - Static Water Level)

Well Volume: 20.96 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5-26-21		9:55						
		10.0	10:32		29.85	2.09	19.9	5.39	174.7
			1036			1.18	20.0	4.99	130.3
			1040			1.06	19.9	4.85	130.2
			1044			0.99	19.8	4.84	129.6
		13.5	1048	53	30.31	0.91	19.7	4.82	129.3

Sample Time: 10:55

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.59'

Drawdown/Water Column (%): 4.93 %

Duplicate taken here.

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: OW-2

Date: 5/26/2021

Sampling Method: Pumped

Measured Well Depth: 27.05 ft

Static Water Level: 10.46 ft
(Depth to Water)

Maximum Drawdown Depth 12.12 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 16.59 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 489.40 ft

GW Elevation: 478.94 ft
(TOC Elevation - Static Water Level)

Well Volume: 10.784 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/26/2021		8:55						
		3.0	9:07			1.17	21.2	6.35	480.1
			9:10			0.58	19.7	6.43	467.4
			9:13			0.48	18.8	6.32	466.4
			9:16			0.14	19.5	6.39	469.8
			9:19			4.25	18.8	6.28	460.1
		5.0	9:22			0.32	18.7	6.36	465.2

Sample Time: 9:25

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.44 ft

Drawdown/Water Column (%): 8.7%

Final Depth: 11.9'

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-2

Date: 9/8/21

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 48.15 ft
(Depth to Water)

Maximum Drawdown Depth 51.79 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 35.35 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 542.50 ft

GW Elevation: 494.35 ft
(TOC Elevation - Static Water Level)

Well Volume: 23.63 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		12:10						
		2.0L	12:25			0.93	24.0	6.61	209.2
			12:29			1.18	23.9	6.62	199.2
			12:33			1.18	22.6	6.47	197.6
			12:37			1.06	22.3	6.57	196.8
			12:41			1.30	22.2	6.50	196.1
		4.25L	12:45			1.26	22.4	6.52	195.4

Sample Time: 12:50

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.43ft

Drawdown/Water Column (%): 3.93%

Sampler Signature: C Clark

Final Depth : 49.58

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-3

Date: 9/8/21

Well Diameter: 4 inches

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 25.2 ft
(Depth to Water)

Maximum Drawdown Depth 27.98 ft
(10% of WCH + SWL)

Water Column Height: 27.8 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 504.78 ft

GW Elevation: 479.58 ft
(TOC Elevation - Static Water Level)

Well Volume: 18.07 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		08:10						
		2L	08:18			12.28	19.1	6.61	615.1
		1	08:22			7.70	19.5	6.16	587.0
			08:26			7.95	19.4	6.17	576.0
			08:30			6.92	19.4	6.15	573.3
		4.5L	08:34			6.17	19.5	6.10	571.0

Sample Time: 08:38

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.4 feet

Drawdown/Water Column (%): 5.04%

Sampler Signature: C Clk

Final Depth : 26.6 ft

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-4

Date: 9/8/21

Sampling Method: Pumped

Measured Well Depth: 53 ft

Static Water Level: 24.85 ft
(Depth to Water)

Maximum Drawdown Depth 27.67 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 28.15 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 505.68 ft

GW Elevation: 480.83 ft
(TOC Elevation - Static Water Level)

Well Volume: 18.30 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		1:20						
		2L	1:30			31.0	22.5	6.37	334.2
			1:33			97.2	21.1	6.40	325.8
			1:36			75.7	20.6	6.33	322.3
			1:39			73.8	20.8	6.32	318.5
			1:42			66.7	21.2	6.29	317.1
			1:45			55.8	21.2	6.36	317.5
			1:48			51.9	21.3	6.34	319.5
			1:51			106	21.1	6.32	317.1
			1:54			110	21.3	6.29	318.1
		5L	1:57			95.6	21.2	6.37	317.4

Sample Time: 14:00

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.35

Drawdown/Water Column (%): 4.80%

Final Depth 26.2ft

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: CCR-5

Date: 09 08 21

Sampling Method: Pumped

Measured Well Depth: 34.55 ft

Static Water Level: 6.01 ft
(Depth to Water)

Maximum Drawdown Depth 8.86 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 28.54 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 470.46 ft

GW Elevation: 464.45 ft
(TOC Elevation - Static Water Level)

Well Volume: 18.55 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09 08 21		08:04						
		7.5	08:19			169	19.4	6.64	1036
			18:21			160	19.5	6.64	1023
		9.5	18:24		8.06	178	19.5	6.60	1019
					Final Depth				

Sample Time: 8:27

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 2.05'

Drawdown/Water Column (%): 7.18 %

Sampler Signature: PMA

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-7

Date: 09 08 21

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 34.92 ft
(Depth to Water)

Maximum Drawdown Depth
(10% of WCH + SWL) [redacted] ft KAS
37.12

Well Diameter: 4 inches

Water Column Height: 22.0 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 571.76 ft

GW Elevation: ft
(TOC Elevation - Static Water Level)

Well Volume: gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09 08 21		10.30						
			1049			2.06	18.7	6.54	278.0
			1052			1.02	18.7	6.57	276.4
		6.0	1055		35.79	0.78	18.7	6.51	274.0
					Final Depth				
			11:00						

Sample Time:

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft):

Drawdown/Water Column (%):

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-9

Date: 9/8/21

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 7.58 ft
(Depth to Water)

Maximum Drawdown Depth 8.99 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 14.16 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 480.04 ft

GW Elevation: 472.46 ft
(TOC Elevation - Static Water Level)

Well Volume: 9.204 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		9:15						
		2 L	9:20			1.95	21.1	4.89	1346
			9:24			2.19	21.0	4.60	1348
			9:28			2.07	21.0	4.57	1343
		4 L	9:32			2.64	21.1	4.56	1347

Sample Time: 09:40

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.57

Drawdown/Water Column (%): 4.03%

Final Depth : 8.15 ft.

Sampler Signature: [signature]

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-12

Date: 9/8/21

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 5.3 ft
(Depth to Water)

Maximum Drawdown Depth 6.68 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 13.79 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 474.19 ft

GW Elevation: 468.89 ft
(TOC Elevation - Static Water Level)

Well Volume: 8.96 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		10:05						
		2L	10:15			5.73	22.1	5.90	400.8
		|	10:19			9.0	22.0	6.02	389.7
		|	10:23			9.12	22.0	6.04	387.6
		4.25L	10:27			9.23	22.0	6.0	386.4

Sample Time: 10:38

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.91

Drawdown/Water Column (%): 6.53%

Sampler Signature:

Final Depth = 6.2 ft

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-13

Date: 09 08 21

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 58.93 ft
(Depth to Water)

Maximum Drawdown Depth 63.63 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 47.07 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 584.48 ft

GW Elevation: 525.55 ft
(TOC Elevation - Static Water Level)

Well Volume: 30.59 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09 08 21		0900						
		8.75	0927			10.34	20.4	6.95	236.3
			9:30			2.00	20.4	6.74	228.1
			9:33			0.37	20.5	6.78	225.3
			9:36			0.31	20.6	6.70	225.3
		11.0	9 39		61.31	0.85	20.5	6.71	226.3
					Final Depth				

Sample Time: 09:45

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 2.38

Drawdown/Water Column (%): 5.05 %

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: MW-14

Date: 09 08 21

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 28.51 ft
(Depth to Water)

Maximum Drawdown Depth ~~30.06 ft~~ KAS
(10% of WCH + SWL) 31.75

Well Diameter: 4 inches

Water Column Height: 32.46 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 565.33 ft
(TOC Elevation - Static Water Level)

Well Volume: 21.09 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	090821		1130						
			1149			0.44	21.2	4.96	127.4
			1151			1.00	21.4	4.85	126.5
			1154			0.54	21.5	4.82	123.8
					30.06	0.75	21.6	4.80	122.6

Sample Time: 12.05

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.55'

Drawdown/Water Column (%): 4.77%

Duplicate Taken Here.
Field Blank Taken here.
12:35

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS

Monitor Well: OW-2

Date: 9/8/21

Sampling Method: Pumped

Measured Well Depth: 27.05 ft

Static Water Level: 10.5 ft
(Depth to Water)

Maximum Drawdown Depth 12.16 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 16.55 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 489.40 ft

GW Elevation: 478.9 ft
(TOC Elevation - Static Water Level)

Well Volume: 10.76 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/8/21		11:15						
		2L.	11:25			1.32	22.0	5.73	504.8
		|	11:28			1.69	20.6	5.66	495.6
		|	11:31			1.76	20.5	5.71	438.6
		|	11:34			1.61	20.5	5.68	485.9
		3.75L	11:37			1.31	20.4	5.71	483.4

Sample Time: 11:41

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.01 Ft

Drawdown/Water Column (%): 6.10 %

Final Depth 11.51 Ft

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 3%
temperature:	0.1 deg. C
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

APPENDIX D

2021 GROUNDWATER MONITORING SUMMARY

Choctaw Generation CCR Groundwater Results for Calendar Year 2021

Detection and Assessment Monitoring Results:

Detected

Detected above Prediction Limit

Detected above Prediction Limit and Groundwater Protection Standard (GWPS)

NS = Not Sampled

Antimony (Sb) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.002, GWPS = 0.006										

Arsenic (As) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	0.00316	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	0.00284	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.002, GWPS = 0.010										

Barium (Ba) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	0.11	0.0840	0.17	0.038	0.076	0.094	0.233	0.161	0.012	0.047
5/26/21	0.111	0.072	0.156	0.036	0.073	0.090	0.210	0.173	0.013	0.058
9/8/21	0.094	0.0640	0.13	0.044	0.082	0.084	0.174	0.159	0.011	0.046
Prediction Limit = 0.2558, GWPS = 2										

Beryllium (Be) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	0.00594	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	0.00491	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	0.00374	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.004										

Boron (B) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	0.089	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	0.091	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	0.102	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.050										

(1) Appendix III constituent not required to be monitored during initial assessment monitoring event.

(2) Appendix III constituent not required to be monitored during the annual assessment monitoring event.

Choctaw Generation CCR Groundwater Results for Calendar Year 2021

Calcium (Ca) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	13.8	39.9	25.3	161	31.7	61.2	29.4	18.1	0.571	30.8
5/26/21	14	37.1	24.5	112	32	61.7	32.1	20	0.643	33.5
9/8/21	11.3	30	20	101	34.3	50.9	24.6	17.5	0.504	29.5
Prediction Limit = 85.8879										

(1) Appendix III constituent not required to be monitored during initial assessment monitoring event.

(2) Appendix III constituent not required to be monitored during the annual assessment monitoring event.

Cadmium (Cd) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.005										

(1) Appendix IV constituent not required to be monitored during detection monitoring.

Chloride (Cl) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	8.29	4.53	7.73	6.87	3.04	466	56.4	3.73	18.6	43.5
5/26/21	-	-	-	-	-	-	-	-	-	-
9/8/21	2.72	5	7.79	6.54	3.61	410	10.7	3.89	22.4	62.1
Prediction Limit = 26.6034										

(1) Appendix III constituent not required to be monitored during initial assessment monitoring event.

(2) Appendix III constituent not required to be monitored during the annual assessment monitoring event.

Chromium (Cr) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.1										

Cobalt (Co) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	0.0138	0.0043	0.0299	ND	0.0237	0.00929	ND	ND	ND
5/26/21	ND	0.0163	0.00233	0.0117	ND	0.0209	0.022	ND	ND	ND
9/8/21	ND	0.0206	0.00369	0.0105	ND	0.0181	0.00665	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.006										

Choctaw Generation CCR Groundwater Results for Calendar Year 2021

Fluoride (F) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	0.23	0.51	ND	ND	ND	0.26
5/26/21	ND	0.22	ND	ND	0.22	0.51	ND	ND	ND	0.23
9/8/21	ND	0.24	ND	ND	ND	0.41	ND	ND	ND	0.25
Prediction Limit = 0.30, GWPS = 4.0										

Lead (Pb) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	0.00191	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	0.00111	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	0.00123	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.015										

Lithium (Li) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	0.072	ND	0.097	ND	0.051	ND	ND	ND	ND
5/26/21	ND	0.107	ND	ND	ND	0.075	ND	ND	ND	ND
9/8/21	ND	0.104	ND	0.07	ND	0.087	ND	ND	ND	0.046
Prediction Limit = 0.050, GWPS = 0.050										

Mercury (Hg) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	-	-	-	-	-	-	-	-	-	-
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	-	-	-	-	-	-	-	-	-	-
Prediction Limit = 0.002, GWPS = 0.002										

(1) Appendix IV constituent not required to be monitored during detection monitoring.

(2) Constituent not previously detected; therefore, not included in further assessment monitoring.

Molybdenum (Mo) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS =0.100										

Choctaw Generation CCR Groundwater Results for Calendar Year 2021

Selenium (Se) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5/26/21	ND	ND	ND	0.00806	ND	0.00453	ND	ND	ND	ND
9/8/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Prediction Limit = 0.001, GWPS = 0.05										

Sulfate (SO4) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	15.5	261	31.5	1290	36.6	164	79.6	5.14	10.2	118
5/26/21	-	-	-	-	-	-	-	-	-	-
9/8/21	15.7	292	33.9	612	51.1	ND	11.1	ND	7.82	122
Prediction Limit = 44.8102										

(1) Appendix III constituent not required to be monitored during initial assessment monitoring event.

(2) Appendix III constituent not required to be monitored during the annual assessment monitoring event.

Thallium (Tl) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	-	-	-	-	-	-	-	-	-	-
5/26/21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9/8/21	-	-	-	-	-	-	-	-	-	-
Prediction Limit = 0.001, GWPS = 0.002										

(1) Appendix IV constituent not required to be monitored during detection monitoring.

(2) Constituent not previously detected; therefore, not included in further assessment monitoring.

Total Dissolved Solids (TDS) Monitoring Results (mg/L)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	143	465	208	1362	186	1202	285	168	82	347
5/26/21	-	-	-	-	-	-	-	-	-	-
9/8/21	109	436	196	834	140	913	253	138	78	297
Prediction Limit = 320.8384										

pH Monitoring Results (S.U.)

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	7.38	6.81	6.32	6.17	6.34	4.78	6.53	6.73	4.96	6.71
5/26/21	7.21	6.57	7.17	6.64	6.59	5.05	6.3	6.87	4.82	6.36
9/8/21	6.52	6.1	6.37	6.6	6.51	4.56	6	6.71	4.8	5.71
Prediction Limit = 3.77 – 9.97										

Choctaw Generation CCR Groundwater Results for Calendar Year 2021

Radium 226 and 228 Combined (Ra) Monitoring Results (pCi/L) [1]

Monitoring Well										
Date	CCR-2	CCR-3	CCR-4	CCR-5	MW-7	MW-9	MW-12	MW-13	MW-14	OW-2
	Down	Down	Down	Down/ Boundary	Up	Down	Down	Up	Up	Down
3/15-16/21	2.454	2.562	1.915	1.696	1.431	1.68	2.12	2.016	1.773	1.037
5/26/21	2.083	2.235	1.961	2.05	1.967	2.18	2.08	1.994	1.944	2.277
9/8/21	1.452	1.452	1.452	1.257	1.295	1.82	1.698	1.237	1.388	1.165
Prediction Limit = X, GWPS = 5 pCi/L										

(1) Per MS Dept. of Health (BJ Smith) and EPA guidance for drinking water standards, Radium 226/228 Combined is calculated by adding Radium 226 and Radium 228 Activity (Act) concentrations together if they are detected above the MDC; otherwise, the MDC is used.