



2021 Annual Groundwater Monitoring and Corrective Action Report

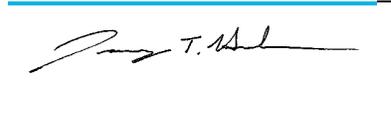
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Wheatland, Wyoming

Basin Electric Power Cooperative

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List of Acronyms

ACM	Assessment of Corrective Measures
AECOM	AECOM Technical Services, Inc.
ASD	Alternative Source Demonstration
Basin	Basin Electric Power Cooperative
bgs	below ground surface
CCR	coal combustion residuals
CFR	Code of Federal Regulations
ft	feet
ft/day	feet per day
GWPS	groundwater protection standards
LRS	Laramie River Station
SSI	statistically significant increase
SSL	statistically significant levels
UPL	upper prediction limit
USGS	U.S. Geological Survey
95% LCL	95 percent lower confidence limit

Executive Summary

This report summarizes groundwater monitoring and corrective action activities completed between January 1 and December 31, 2021 for the Coal Combustion Residuals (CCR) units at the Basin Electric Power Cooperative (Basin) Laramie River Station (LRS) as required by 40 Code of Federal Regulations (CFR) § 257.90(e) of the U.S. Environmental Protection Agency CCR rule. The CCR units subject to the rule include:

- Bottom Ash Pond 1,
- Bottom Ash Pond 2/Bottom Ash Pond 3/Ash Landfill Multi-unit, and
- Emergency Holding Ponds Multi-unit.

Site figures illustrating the location of the CCR units and program monitoring networks for the CCR units are presented as **Figures 1-1** and **2-1**, respectively. No program monitoring wells were modified or abandoned during the reporting period.

Basin implemented an assessment monitoring program for Bottom Ash Pond 1 and the two CCR multi-units (Bottom Ash Pond 2/Bottom Ash Pond 3/Ash Landfill and Emergency Holding Ponds) in the spring of 2018 because of the identification of statistically significant increases (SSIs) of Appendix III constituents in downgradient monitoring wells as summarized below:

- Bottom Ash Pond 1: Boron (MW-38B), and calcium, chloride, sulfate, and total dissolved solids (MW-38B and MW-21B);
- Bottom Ash Ponds 2/3 and CCR Landfill Multi-unit: Chloride (MW-37B), and fluoride (MW-20B, MW-40B, and MW-53B); and
- Emergency Holding Ponds Multi-unit: Fluoride (MW-44B and MW-45B).

Assessment monitoring was in place for all three units/multi-units at the start and end of the current annual reporting period (2021).

Assessment groundwater monitoring data have reported the detection of Appendix IV constituents of barium, chromium, fluoride, lithium, molybdenum, radium, selenium, and thallium in downgradient monitoring wells at concentrations that represent SSIs over background. Per CCR rule requirements, groundwater protection standards (GWPSs) for each constituent were developed and the data were tested for whether the concentrations represented statistically significant levels (SSLs) above their respective GWPSs.

Assessment monitoring of the Bottom Ash Pond 1 Unit in 2021 found that concentrations of some Appendix IV constituents (chromium, fluoride, lithium, molybdenum, radium, and selenium) exhibited SSIs above background values at selected monitoring wells but at concentrations below their respective GWPSs with the exception of lithium and molybdenum. Downgradient well(s) with a constituent or constituents reported above GWPSs at an SSL are as follows:

Appendix IV Constituent	Unit/Multi-Unit	Downgradient Well(s) GWPS Standard Exceedance
Lithium and molybdenum	Bottom Ash Pond 1	MW-38B

As required by the CCR rule, an assessment of corrective measures (ACM) was initiated for Bottom Ash Pond 1 on April 10, 2019 and completed on August 30, 2019. A public meeting open to interested and affected parties was held on January 30, 2020 to discuss the results of the ACMs. After completion of the ACMs, work was initiated on the Selection of Remedy for the impacted groundwater as required by 40 CFR § 257.97. A Groundwater Remedy

Selection Report was prepared and issued in July 2020 (AECOM 2020), after which work was initiated on the design and implementation of the following selected remedy:

- Bottom Ash Pond 1 retrofit, hydraulic capture of impacted groundwater, and treatment of the captured groundwater in the new zero-discharge Pond 1.

Assessment monitoring of the Bottom Ash Pond 2/Bottom Ash Pond 3/Ash Landfill Multi-unit in 2021 found that concentrations of some Appendix IV constituents (chromium, fluoride, selenium) exhibited SSIs above background values at selected monitoring wells but at concentrations below their respective GWPSs.

Assessment monitoring of the Emergency Holding Ponds Multi-unit in 2021 found that concentrations of one Appendix IV constituent (barium) exhibited an SSI above the background value at monitoring well MW-47B, but at a concentration below the GWPS.

Other activities and conditions for the 2021 annual reporting period include:

- Semiannual assessment-mode groundwater monitoring events were conducted in June and October. Monitoring involved sampling of background monitoring wells and downgradient monitoring wells.
- The surface completion for MW-49B was repaired in December 2021. No decommissioning of the existing program monitoring networks was conducted.
- No program transitions (detection to assessment or vice versa) were triggered.
- Programmatic problems were encountered for Bottom Ash Pond 1 with the exceedance of GWPS at an SSL in Well MW-38B, so a remedy is required.
- Two recovery wells were installed downgradient of well MW-38B as outlined in the selected remedy for Bottom Ash Pond 1.

Anticipated activities for the next annual reporting period include:

- Completion of two semi-annual assessment-mode groundwater monitoring events.
- Statistical evaluation of groundwater data for Appendix III and Appendix IV constituents.
- Design and implementation of the selected remedy for the Bottom Ash Pond 1 Unit.

1. Introduction

On behalf of Basin Electric Power Cooperative (Basin), AECOM Technical Services, Inc. (AECOM) has prepared this 2021 annual report documenting groundwater monitoring and corrective action for the Coal Combustion Residuals (CCR) units at Basin's Laramie River Station (LRS).

Chapter 1 provides background information on the LRS power generating facility, its CCR unit(s) and their physical setting, including geology, hydrology, and groundwater conditions. Chapter 2 summarizes CCR groundwater monitoring activities conducted prior to 2021. Chapter 3 summarizes the groundwater monitoring and corrective action activities completed in 2021, and references attachments to this report that contain detailed documentation of those activities. Chapter 4 provides some general information regarding the LRS CCR program and actions planned for 2022. Chapter 5 presents a summary and conclusions from CCR groundwater monitoring in 2021 and statistical analysis of the results. Chapter 6 lists references cited in this report.

Regulatory Background

The CCR rule (Chapter 40 of the Code of Federal Regulations [CFR] Part 257 Subpart D) became effective on October 19, 2015 and established standards for the disposal of CCR in landfills and surface impoundments (CCR units). In particular, the rule set forth groundwater monitoring and corrective action requirements for CCR units. The rule includes the requirement for an "annual groundwater monitoring and corrective action report" (annual report), with the annual report for 2021 due by January 31, 2022. The annual report is intended to document the status of the groundwater monitoring and corrective action program for each CCR unit, summarize key actions completed in the previous year, and project key activities for the upcoming year. This report is the fifth annual report for LRS and reports on activities performed and data gathered in calendar year 2021.

Facility Location and Operational History

LRS, located east of Wheatland, Wyoming (**Figure 1-1**), is one of the largest consumer-operated, regional, joint power supply ventures in the United States. The plant consists of three power-generating units with a total power output capacity of 1,710 megawatts:

- Unit 1, with a rating of 570 megawatts, which began operating in 1980;
- Unit 2, with a rating of 570 net megawatts, which began operating in 1981; and
- Unit 3, with a rating of 570 net megawatts, which began operating in 1982.

CCR produced at LRS includes fly ash, bottom ash, and flue gas desulfurization waste.

CCR Unit Description

CCR is disposed at LRS in the following CCR units, monitored as individual units or multi-units:

- Bottom Ash Pond 1;
- Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill (multi-unit); and
- Emergency Holding Ponds (multi-unit).

The Ash Landfill and three bottom ash ponds are located near the western edge of the site, west of the LRS generating units and office complex (**Figure 1-2**). The two emergency holding ponds are located north of the generating units in the northeastern part of the site. The landfill and ash ponds were permitted in 1978 and began

receiving coal ash in 1980. The emergency holding ponds were identified as CCR units due to periodic disposal of flue gas desulfurization waste in the ponds.

Physical Setting

The geological and hydrogeological setting is important to understanding the groundwater environment in the vicinity of the LRS. The geologic history of Platte County, Wyoming is similar to most areas within the Front Range of the Rocky Mountains. Platte County is underlain by marine and continental deposits of limestone, conglomerate, sandstone, siltstone, shale, and unconsolidated sediments. Deposits range in thickness up to 10,000 feet (ft) in the east central and southeastern parts of the county. Precambrian rocks generally make up the mountainous areas, Paleozoic and Mesozoic rocks adjoin the older formations, and Tertiary and Quaternary period rocks underlie most of the county east of the Laramie Range (U.S. Geological Survey [USGS] 1960). The Laramide Orogeny was a period of mountain building active in the county approximately 70 million years ago marking the beginning of the Laramie Range and the Hartville Uplift, a structural divide separating the southern Powder River Basin from the northern Denver Basin. During the Cenozoic Era, streams eroded the eastern side of the range depositing silts, sands, and gravels of the Brule and Arikaree Formations that underlie the Wheatland area, including LRS.

Precipitation landing on the eastern flank of the Laramie Range supplies surface water to perennial and ephemeral streams that flow east towards the basin. Most surface water west of Wheatland eventually joins with the Laramie River, continuing east before discharging into the Platte River near Fort Laramie. Groundwater near Wheatland is recharged primarily through infiltration of rain and melt water on the eastern flank of the Laramie Range and through infiltration of irrigation water during the spring, summer, and fall months. Some groundwater in the saturated zones eventually returns to the land surface through seeps and springs, or is discharged by wells and evapotranspiration; however, the majority flows into surface streams. Alluvial drainages bounding the eastern (Wheatland Creek) and western portions (Chugwater Creek) of the facility transport surface water generally northward, discharging to the Laramie River (USGS 1960). Some groundwater within these regions percolates into the Arikaree Formation, which holds the uppermost aquifer beneath the LRS facility.

The LRS facility is underlain by a 5 to 30 ft thick section of Quaternary sediments that overlie the Arikaree Formation. The Arikaree Formation is comprised primarily of loosely to moderately cemented very fine to fine grained sandstone with interbedded silts and clays. A lower unit consists of lenses of loosely to well-cemented red to gray coarse sandstone interbedded with lenses of well-cemented conglomerate. A basal conglomerate lies unconformably upon the underlying Brule Formation in many places throughout Platte County (USGS 1960). A review of the geologic logs generated during the drilling of the on-site water supply well (Forell-Baumgardner No. 2) suggests the Brule Formation is approximately 820 ft below ground surface (bgs) in the western portions of the facility. Based on this information, the local thickness of the Arikaree Formation on-site is approximately 790 ft thick.

The lithologic characteristics of the Arikaree Formation beneath the LRS are generally consistent, although there are slight differences in the degree of cementation and induration, and minor variations in grain size. Few fractures were noted in borehole soil cores obtained during monitoring well network installation. Interbeds with higher silt and clay content, coupled with greater cementation, generate thin discontinuous perched groundwater horizons that are interpreted to hold only seasonal groundwater. The perched groundwater would tend to percolate downward to what is interpreted as the uppermost aquifer based on data obtained during monitoring well installation and aquifer testing. The uppermost aquifer is present at a depth of approximately 95 ft bgs in the southwestern portion of the facility, and slopes generally north towards the Laramie River. The hydraulic gradient for the uppermost aquifer beneath the facility appears to be controlled dominantly through topographic features and enhanced infiltration zones in permeable shallow alluvium. A representative potentiometric surface map from the most recent assessment monitoring event conducted in October 2021 is presented in **Figure 1-2**. Data from aquifer pump testing conducted at the facility in 2016 were used to estimate hydraulic conductivities, which range from 0.65 feet per day (ft/day) to 3.12 ft/day, with an average of 1.40 ft/day. Aquifer slug tests were also performed on eight other wells, with resulting hydraulic conductivities ranging from 0.45 ft/day to 6.28 ft/day, with an average of 2.16 ft/day.

2. CCR Groundwater Monitoring Activities Prior to 2021

The regulatory process for CCR groundwater monitoring and corrective action is established by 40 CFR §§ 257.90 through 257.98. The process includes a phased approach to groundwater monitoring, leading (if applicable) to the establishment of groundwater protection standards (GWPSs) for each CCR unit. Exceedances of the GWPSs that are determined to be statistically significant can trigger requirements for additional groundwater characterization and corrective action assessment followed by corrective action implementation. The following paragraphs provide a summary of CCR groundwater monitoring activities performed prior to 2021. CCR groundwater monitoring activities performed in 2021 are discussed in Chapter 3.

Groundwater monitoring at LRS is performed using a network of monitoring wells that includes both wells to monitor background water quality that is not potentially influenced by the presence of the CCR unit, and wells placed at the downgradient boundary of the CCR units (**Figure 2-1**). The hydro stratigraphic positions of the CCR monitoring wells selected for sampling background and downgradient groundwater quality for each LRS CCR unit or multi-unit prior to 2021 are summarized below:

CCR Unit/multi-Unit	Background Wells	Downgradient Wells
Bottom Ash Pond 1	MW-52B, MW-53B	MW-49B, MW-21B, MW-38B
Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill	MW-39B, MW-32B	MW-36B, MW-37B, MW-20B, MW-14BR, MW-40B, MW-52B, MW-53B
Emergency Holding Ponds	MW-41B, MW-42B, MW-43B	MW-44B, MW-45B, MW-46B, MW-47B

The following eight monitoring wells were also included in the CCR monitoring network for the purpose of measuring groundwater elevations and evaluating groundwater flow direction and velocity in the vicinity of the bottom ash ponds and landfill: MW-22B, MW-23B, MW-33B, MW-34B, MW-35B, MW-48B, MW-50B, and MW-51B.

Detection monitoring was initiated in August 2016, which involved sampling groundwater for Part 257 Appendix III and Appendix IV constituents over eight baseline detection monitoring events.

Baseline detection monitoring events were performed in general accordance with procedures established in the site-specific Sampling and Analysis Plan (AECOM 2018a), which is included in the facility's Operating Record. The Sampling and Analysis Plan describes the procedures for equipment calibration, monitoring well water level measurement, monitoring well purging and sampling, sample custody, sample shipping, laboratory analysis, and documentation requirements for each groundwater sample submitted. The results of detection monitoring at LRS were presented and discussed in the First Annual Groundwater Monitoring and Corrective Action Report, 2016-2017 (AECOM 2018b).

If a statistically significant increase (SSI) of any Appendix III constituent relative to background conditions was detected in the downgradient monitoring wells and could not be demonstrated to be associated with a source other than the CCR unit, then the CCR rule required that groundwater monitoring transition from the detection monitoring phase to the assessment monitoring phase. The results of detection monitoring identified the following Appendix III SSIs:

- Bottom Ash Pond 1 SSIs – boron, calcium, chloride, sulfate, and total dissolved solids;
- Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill SSIs – fluoride and chloride; and
- Emergency Holding Ponds SSI – fluoride.

Basin implemented an assessment monitoring program for the two CCR multi-units (Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill; Emergency Holding Ponds) in the spring of 2018 based on the results of detection monitoring. The initial assessment monitoring event for the two multi-units was conducted in April 2018 and included analysis of groundwater samples for constituents listed in Part 257 Appendix IV.

Basin elected to conduct an alternative source demonstration (ASD) investigation to evaluate whether an alternative source could explain the SSLs identified for Bottom Ash Pond 1 during detection monitoring. This ASD investigation involved the following activities:

- Analyzing soil samples collected from shallow soil borings at 10 locations near Bottom Ash Pond 1, and
- Performing groundwater modeling to evaluate potential constituent migration pathways and transport times from potential source areas to one of the downgradient wells for Bottom Ash Pond 1.

The ASD investigation could not confirm an alternative source; therefore, Basin initiated an assessment monitoring program for Bottom Ash Pond 1 and completed the initial assessment monitoring event in June 2018.

The following Appendix IV constituents were detected during the initial assessment monitoring of both CCR multi-units: barium, chromium, fluoride, lithium, molybdenum, radium-226 and -228 (combined), and selenium. The Appendix IV constituents detected during initial assessment monitoring of Bottom Ash Pond 1 included barium, chromium, cobalt, fluoride, lithium, molybdenum, and selenium.

Because one or more Appendix IV constituents were detected during the initial assessment monitoring event for all three CCR units/multi-units at LRS, the CCR rule required that a second verification assessment monitoring event be performed for each unit/multi-unit. Verification assessment monitoring was performed in June 2018 for the two multi-units and in October 2018 for Bottom Ash Pond 1. Verification monitoring for each unit/multi-unit involved analysis for Appendix III constituents plus the Appendix IV constituents detected during initial assessment monitoring.

The results of assessment monitoring conducted in 2018 were presented in the 2018 Annual Groundwater Monitoring and Corrective Action Report (AECOM 2019a).

The CCR rule requires that concentrations of Appendix III and Appendix IV constituents detected in downgradient wells during assessment monitoring be compared to background concentrations using the statistical procedures in § 257.93(g). The rule also requires the establishment of GWPSs in accordance with § 257.95(h) for each Appendix IV constituent detected in downgradient wells during assessment monitoring. If a GWPS is exceeded in one or more downgradient wells at statistically significant levels (SSLs), the rule requires additional groundwater characterization and an assessment of corrective measures (ACM) unless the SSLs can be attributed to a source other than the CCR unit or to an error in sampling, statistical evaluation, or natural variation in groundwater quality.

Assessment monitoring of Bottom Ash Pond 1 found that lithium and molybdenum concentrations in monitoring well MW-38B exceeded GWPSs at SSLs. Although selenium concentrations in monitoring wells MW-21B and MW-38B exceeded the GWPS by direct comparison, their 95 percent lower confidence limit (95% LCL) did not exceed the GWPS. Basin concluded the available data indicated that the SSLs associated with Bottom Ash Pond 1 could not be attributed to a source other than the CCR unit or to errors in sampling, statistical evaluation, or natural variation in groundwater quality. Therefore, Basin performed additional groundwater characterization and an ACM for Bottom Ash Pond 1.

Groundwater characterization activities were performed in the spring of 2019 to evaluate the nature and extent of groundwater impacted by a release of CCR from Bottom Ash Pond 1 that has resulted in the exceedance of GWPSs for lithium and molybdenum. The characterization activities were designed to also support selection and implementation of a remedy to attain GWPSs. The activities involved installation and sampling of four monitoring wells (MW-38C, MW-54B, MW-55B, MW-56B) downgradient of Bottom Ash Pond 1 at the locations illustrated in

Figure 2-1:

- MW-38C was installed near MW-38B to evaluate the nature and vertical extent of groundwater impacts near MW-38B. The total depth of MW-38C was 130 ft bgs.

- MW-54B was installed to evaluate groundwater quality of the uppermost aquifer at the facility boundary. The total depth of MW-54B was 25 ft bgs.
- MW-55B was installed northeast of MW-21B to evaluate the nature and downgradient extent of groundwater impacts north of MW-38B. The total depth of MW-55B was 70 ft bgs.
- MW-56B was installed east of MW-21B to evaluate the nature and lateral extent of groundwater impacts northeast of MW-38B. The total depth of MW-56B was 79 ft bgs.

Groundwater samples from the four wells were analyzed for Appendix III parameters and the following Appendix IV parameters: barium, chromium, cobalt, fluoride, lithium, molybdenum, and selenium; and the geochemical parameters alkalinity, magnesium, and sodium. None of the 2019 results exceeded the GWPSs for lithium, molybdenum, or the other Appendix IV constituents detected during assessment monitoring in 2018. These results, combined with results from past assessment monitoring, reasonably defined the extent of groundwater impacted by lithium and molybdenum attributed to Bottom Ash Pond 1. The data suggest that the horizontal extent of groundwater with lithium and molybdenum concentrations exceeding GWPSs extends from Bottom Ash Pond 1 downgradient to MW-38B but not as far as MW-55B or MW-56B. Similarly, the vertical extent of groundwater exceeding GWPSs extends from the surface of the uppermost aquifer at MW-38B to possibly below the bottom of the screened interval of MW-38B (75 ft bgs), but not as deep as the screened interval of MW-38C (114 ft bgs to 125 ft bgs). Overall, the data enhanced understanding of relevant site conditions, assisted in selecting a remedy, and will be useful for remedy design and implementation.

Groundwater assessment monitoring of Bottom Ash Pond 1 identified lithium and molybdenum at SSLs above GWPSs. The exceedance of GWPSs triggered requirements for the assessment, selection and implementation of corrective measures to prevent further releases of hazardous constituents, remediate any releases, and restore the affected area. Basin completed an ACM in 2019 (AECOM 2019b). The ACM focused on identifying and evaluating groundwater corrective measures to address the dissolved lithium and molybdenum in groundwater downgradient of Bottom Ash Pond 1.

Potentially applicable corrective measures were identified based on the nature and extent of groundwater impacts and site-specific geological and hydrogeological characteristics. Screening was performed by evaluating each corrective measure against the criteria of effectiveness, technical implementability, and relative cost. Those that were deemed ineffective and/or had significant implementation concerns were rejected from further consideration. Natural attenuation, groundwater extraction, and long-term monitoring passed the screening step and were assembled into the following two corrective measures alternatives for further detailed evaluation:

- Alternative A: Natural Attenuation and Long-Term Monitoring; and
- Alternative B: Groundwater Extraction, On-site Reuse or Disposal, and Long-Term Monitoring.

The two alternatives were evaluated against the requirements specified in 40 §§ CFR 257.96 and 257.97, broadly categorized under the criterion of effectiveness, implementability, and cost. The results of the ACMs, including an evaluation of the two alternatives, are presented in the ACMs (AECOM 2019b).

Assessment monitoring in 2018 of the Bottom Ash Pond 2, Bottom Ash Pond 3, and the Ash Landfill multi-unit found that concentrations of Appendix IV constituents chromium, fluoride, and selenium exhibited SSIs above background values, but all concentrations were below GWPSs. Therefore, assessment monitoring of this multi-unit is required on a semi-annual basis per the requirements of § 257.95. Assessment monitoring of the Emergency Holding Ponds multi-unit found that Appendix IV constituents chromium, fluoride, and selenium exhibited SSIs above background values but below GWPSs. Therefore, semi-annual assessment monitoring of this multi-unit is also required. The results of semi-annual assessment monitoring subsequently completed in 2021 are discussed in Chapter 3.

The first of two semi-annual assessment monitoring events for 2019 occurred on June 4-6, 2019. The field activities and resulting data were summarized in the Sampling and Analysis Report, Assessment Monitoring, June 2019 (AECOM 2019c). The second semi-annual assessment monitoring event for 2019 occurred on October 21-23, 2019. The field activities and data were summarized in the Sampling and Analysis Report, Assessment Monitoring, October 2019 (AECOM 2019d).

Semi-annual assessment monitoring events for 2020 occurred in June and October 2020. The field activities and resulting data were summarized in the 2020 Annual Groundwater Monitoring and Corrective Action Report (AECOM 2021).

3. CCR Groundwater Monitoring and Corrective Action Activities in 2021

This chapter summarizes the activities conducted at LRS in 2021 to comply with the groundwater requirements of the CCR rule:

Groundwater assessment monitoring activities for all CCR units:

- monitoring system evaluation;
- groundwater sampling;
- laboratory analysis; and
- statistical analysis of the monitoring results.

Implementation of the selected remedy for Bottom Ash Pond 1 and initiation of design activities.

- Retrofit of Bottom Ash Pond 1
- Two six-inch diameter recovery wells were installed in November 2021 downgradient of monitoring well MW-38B
- Aquifer testing was conducted on newly installed Recovery wells in December 2021.

The CCR rule groundwater compliance activities are discussed below.

Assessment Monitoring Activities

Monitoring System Evaluation

As described in the CCR Groundwater Monitoring System Report (AECOM 2017), monitoring wells were installed around the CCR unit/multi-units at LRS to: (1) facilitate collection of representative groundwater samples from the uppermost aquifer; and (2) accurately measure water table elevations to support evaluation of groundwater gradient and flow direction (**Figure 1-2**). All monitoring wells comprising the LRS CCR monitoring system were found to be in good condition during the assessment monitoring events conducted in 2021.

Following additional groundwater characterization of Bottom Ash Pond 1 in the spring of 2019, Basin elected to incorporate the four newly installed monitoring wells into the assessment monitoring program which continued into 2021. Water level measurements and groundwater quality samples were collected from MW-38C during assessment monitoring events, and water level measurements were taken at MW-54B, MW-55B and MW-56B.

Analysis of potentiometric surface maps constructed using the depth to groundwater measurements obtained in 2021 during groundwater assessment monitoring indicates the direction of groundwater flow is generally to the northeast, consistent with previous data collected during detection and assessment monitoring from 2016 through 2020, and supports the design of the well network (**Figure 2-1**) to monitor background groundwater quality and the quality of groundwater downgradient of the CCR units.

Groundwater Sampling and Analysis

Groundwater assessment monitoring was performed at LRS in June and October 2021 for the three CCR unit/multi-units. Monitoring activities included collecting groundwater samples from the wells listed below:

CCR Unit/multi-unit	Background Wells	Downgradient Wells
Bottom Ash Pond 1	MW-52B, MW-53B	MW-21B, MW-38B, MW-38C*, MW-49B
Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill (multi-unit)	MW-39B, MW-32B	MW-36B, MW-37B, MW-20B, MW-14BR, MW-40B, MW-52B, MW-53B
Emergency Holding Ponds (multi-unit)	MW-41B, MW-42B, MW-43B	MW-44B, MW-45B, MW-46B, MW-47B

* MW-38C, installed in April 2019, was added to the assessment monitoring program as a downgradient compliance well for Bottom Ash Pond 1.

Water levels were also measured in the following monitoring wells for the purpose of evaluating groundwater flow direction and velocity:

- MW-22B, MW-33B, MW-34B, MW-35B, MW-48B, MW-50B, MW-51B, MW-54B, MW-55B, and MW-56B. Monitoring well MW-23B was not measured for water levels in 2021 due to damage to the well. No well repair is planned as this well has been removed from the monitoring well network.

Assessment monitoring sampling and analysis was performed in general accordance with procedures established in the Sampling and Analysis Plan (AECOM 2018a). The results are presented in **Attachment A**, which also includes a representative potentiometric surface map for the uppermost aquifer, inferred groundwater flow direction and estimated velocities, and a tabulated summary of field measurements and laboratory analytical data.

Statistical Procedures and Analysis

The CCR rule requires that concentrations of Appendix III and Appendix IV constituents detected in downgradient wells during assessment monitoring be compared to background concentrations using the statistical procedures in § 257.93(g). The rule also requires the establishment of GWPSs for each Appendix IV constituent detected in downgradient wells during assessment monitoring. The detected concentrations are then compared to the GWPSs for each constituent, which are either:

- The federal Safe Drinking Water Act maximum contaminant level,
- Concentrations for cobalt, lead, lithium, and molybdenum specified in § 257.95(h)(2), or
- The background concentration (upper prediction limit [UPL]) if it is higher than the maximum contaminant level or concentration specified in § 257.95(h)(2).

The statistical analysis procedures and results from 2021 assessment monitoring for each LRS CCR unit/multi-unit are discussed below. Input data files for calculating the UPLs and lower prediction limits for the LRS multi-units are provided in **Attachment B**.

Bottom Ash Pond 1

Appendix III and Appendix IV groundwater quality data from Bottom Ash Pond 1 Assessment Monitoring were evaluated using an interwell approach that statistically compared constituent concentrations at downgradient monitoring wells to those present at background monitoring wells. The statistical analyses were performed in accordance with the Statistical Method Certification and Statistical Methodology presented in the CCR Groundwater Monitoring System Report (AECOM 2017).

Prediction limits (i.e., parametric or nonparametric) were developed for each constituent based on the frequency of non-detect values and whether the background data for that constituent exhibited a normal, lognormal, or nonparametric distribution. For the statistical analysis, non-detect values were represented as one-half the detection limit. No outliers were identified in the background data. Analytical data from the background monitoring wells were used to develop an UPL for the Appendix III and Appendix IV background data at 95% confidence or better. Data from each downgradient compliance monitoring well were compared to the UPL to identify SSIs over background. Mann-Kendall trend analysis was used to identify trends for constituents with SSIs. Constituents exhibiting an SSI over the background UPL were further evaluated to determine whether they are present at SSLs relative to GWPS established

under § 257.95(d)(2). SSLs were identified by calculating the 95% LCL for the constituents exhibiting SSIs over background at the downgradient compliance wells at each CCR unit and comparing the 95% LCL to the established GWPS. A constituent is present at an SSL above the GWPS if the 95% LCL is greater than the GWPS.

Table 3-1 summarizes the statistically determined background UPLs of each Appendix III and Appendix IV constituent for Bottom Ash Pond 1. **Table 3-1** also identifies applicable Appendix IV GWPSs, whether each Appendix IV constituent concentration measured in the downgradient wells exceeds the GWPS by direct comparison, and if constituent concentrations are present at an SSL above the GWPS. Assessment monitoring of Bottom Ash Pond 1 in 2021 found that lithium and molybdenum at monitoring well MW-38B exceeded their respective GWPSs at an SSL. While selenium concentrations at monitoring well MW-21B and fluoride concentrations at monitoring well MW-38B also exceeded their respective GWPS by direct comparison, they did not exceed the GWPS at an SSL because the 95% LCL did not exceed the GWPS. Therefore, assessment monitoring of this CCR unit will continue on a semi-annual basis per the requirements of § 257.95.

Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill Multi-unit

Statistical analyses of Appendix III and Appendix IV groundwater quality data for the Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill multi-unit were performed in a manner similar to that described above for Bottom Ash Pond 1. **Table 3-2** summarizes the statistically determined background UPLs of each Appendix III and Appendix IV constituent for the Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill multi-unit. **Table 3-2** also identifies applicable Appendix IV GWPSs, whether each Appendix IV constituent concentration measured in the downgradient wells exceeds a GWPS by direct comparison, and if the constituent concentrations are present at an SSL above the GWPS. Assessment monitoring of this multi-unit in 2021 found that concentrations of some Appendix IV constituents (chromium, selenium, and thallium) exhibited SSIs above background values at selected monitoring wells but were below GWPSs (**Table 3-2**). Therefore, assessment monitoring of this multi-unit will continue on a semi-annual basis per the requirements of § 257.95.

Emergency Holding Ponds

Statistical analyses of Appendix III and Appendix IV groundwater quality data for the Emergency Holding Ponds multi-unit were also performed consistent with the methodology described above for Bottom Ash Pond 1. **Table 3-3** summarizes the statistically determined background UPLs of each Appendix III and IV constituent for the Emergency Holding Ponds multi-unit. **Table 3-3** also identifies applicable Appendix IV GWPSs, whether or not each Appendix IV constituent concentration measured in the downgradient wells exceeds a GWPS by direct comparison, and if the constituent concentrations are present at an SSL above the GWPS. Assessment monitoring of the Emergency Holding Ponds multi-unit in 2021 found that concentrations of one Appendix IV constituent (barium) exhibited an SSI above the background value at monitoring well MW-47B but was below the GWPS (**Table 3-3**). Therefore, assessment monitoring of this multi-unit will continue on at least a semi-annual basis per the requirements of § 257.95.

Corrective Action Activities

Selection of Remedy for Bottom Ash Pond 1

AECOM prepared a report in 2020 documenting Basin's selection of a remedy for Bottom Ash Pond 1 to address exceedances of GWPSs for lithium and molybdenum, and how it meets the required standards specified in § 257.97(b) (AECOM 2020). Basin's selection of a remedy was based on an ACM conducted in 2019 (AECOM 2019b) per the requirements of 40 CFR § 257.96. The ACM involved the detailed evaluation of the following two corrective measures alternatives for Bottom Ash Pond 1:

- Alternative A: Retrofit of Bottom Ash Pond 1, Natural Attenuation, and Long-Term Monitoring; and
- Alternative B: Retrofit of Bottom Ash Pond 1, Groundwater Extraction, On-site Reuse or Disposal, and Long-Term Monitoring.

These two alternatives were evaluated against the requirements specified in 40 §§ CFR 257.96 and 257.97, broadly categorized under the criterion of effectiveness, implementability, and cost. The two alternatives were presented at a public meeting held on January 30, 2020 in Wheatland, Wyoming. A 30-day public comment period started on January 30, 2020 and ended on February 29, 2020. No comments were received during the 30-day period following the public meeting.

Following the public meeting, Basin elected to implement Alternative B: Retrofit of Bottom Ash Pond 1, Groundwater Extraction, On-site Reuse or Disposal, and Long-Term Monitoring to meet the remedy requirements of the CCR rule. The Groundwater Remedy Selection Report was certified and issued in July 2020 (AECOM 2020). Basin subsequently initiated remedial design activities within 90 days of remedy selection in accordance with § 257.97.

- The first step in the selected alternative involves the removal of all CCR from Bottom Ash Pond 1 and the placement of a liner system before returning it to service as a CCR unit. The retrofit was initiated in August 2020 and completed in March 2021.
- The second step involves the use of proven, reliable groundwater pumping technology to intercept impacted groundwater and route it back to the retrofitted Bottom Ash Pond 1. Design of this step was initiated in November 2020 and is planned for completion in the spring 2022. The following steps were completed in 2021:
 - Installation of two 6-inch recovery wells to a total depth of approximately 80 ft bgs occurred in November 2021.
 - Recovery well development and aquifer testing of the recovery wells occurred in December 2021.

A report will be prepared summarizing field activities conducted and the results of the well installation and subsequent aquifer testing in spring 2022.

4. General Information

The following subsections summarize any problems encountered in the LRS CCR program through 2021, resolutions to those problems (if needed), and upcoming actions planned for 2022.

Problems Encountered

No problems were encountered during the 2021 monitoring period other than monitoring well MW-49B being unable to be located during the October 2021 monitoring event due to construction activities associated with the retrofit of Bottom Ash Pond 1 and Bottom Ash Pond 2. MW-49B was located in November 2021 during the installation of the two 6-inch recovery wells using hydro-excavation techniques. The well was found to be buried under newly applied road base material and was determined to be in good condition except for the surface completion. A new surface flush mount completion was installed in December 2021. Well MW-49B will continue to be monitored and sampled in 2022 as part of the continued assessment monitoring activities at the site.

Actions Planned for 2022

Basin plans on continuing the assessment monitoring program for the three CCR unit/multi-units at LRS in 2022. The assessment monitoring program will include semi-annual groundwater sampling events and the required statistical evaluations. Basin also plans to complete the design and implementation of the remedy selected for Bottom Ash Pond 1. Basin will prepare a semiannual report describing the progress in designing and implementing the remedy as needed.

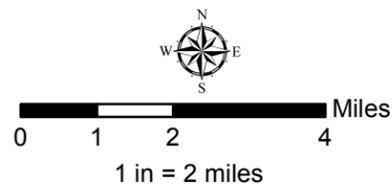
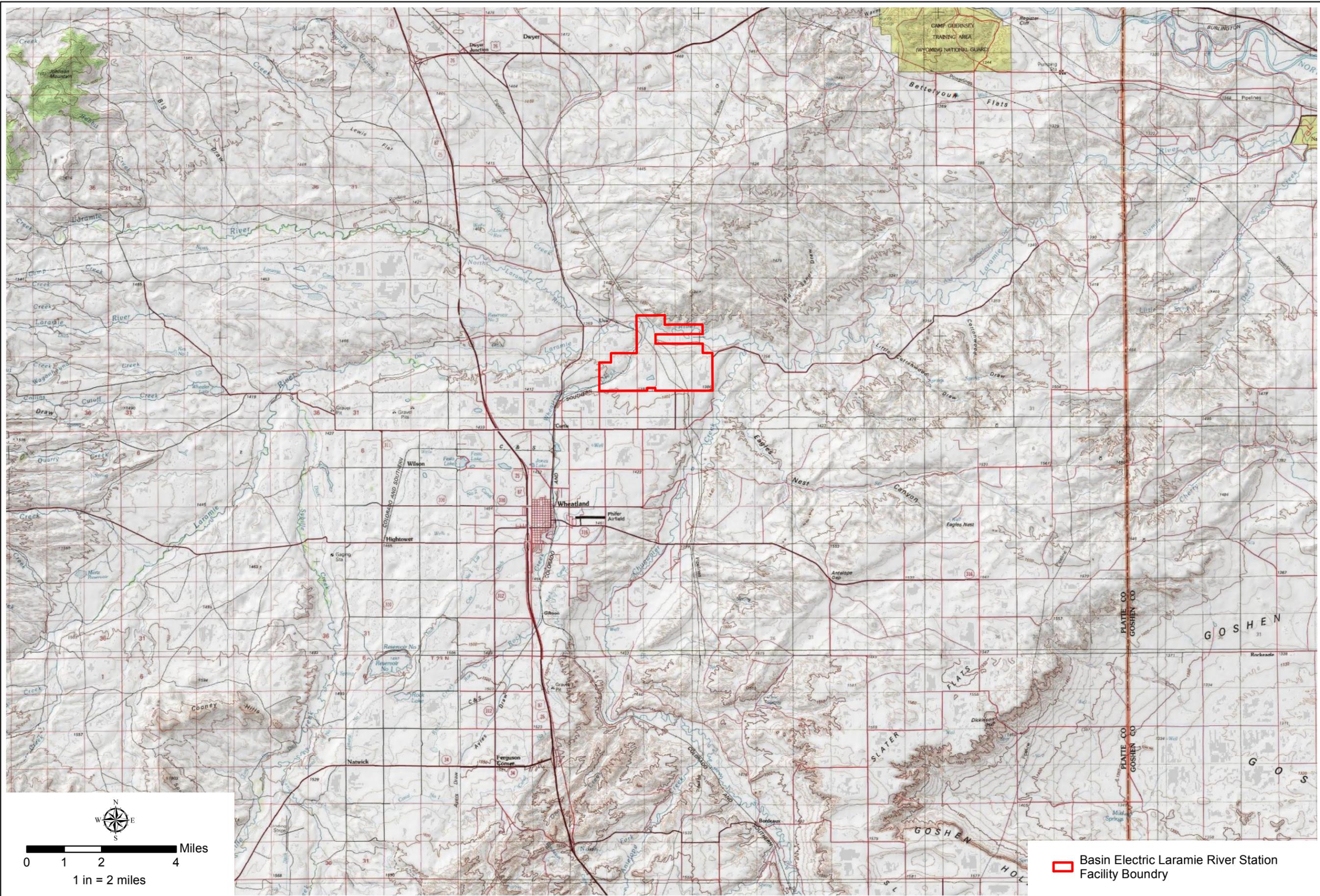
5. Summary and Conclusions

Two rounds of groundwater assessment monitoring were performed at LRS in 2021. Statistical analysis of the results identified an SSI for at least one Appendix III constituent for each LRS CCR unit/multi-units. Therefore, assessment monitoring will be performed on a semi-annual basis in 2022 for all LRS CCR unit/multi-units. Basin will also complete the design and implement the selected remedy to address Appendix IV SSLs for lithium and molybdenum associated with Bottom Ash Pond 1 and continue to comply with CCR rule notification, reporting, and certification requirements.

6. References

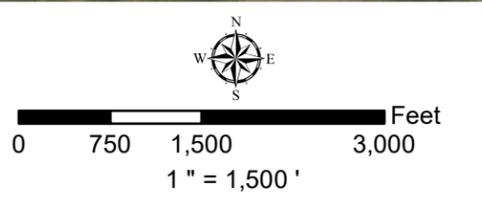
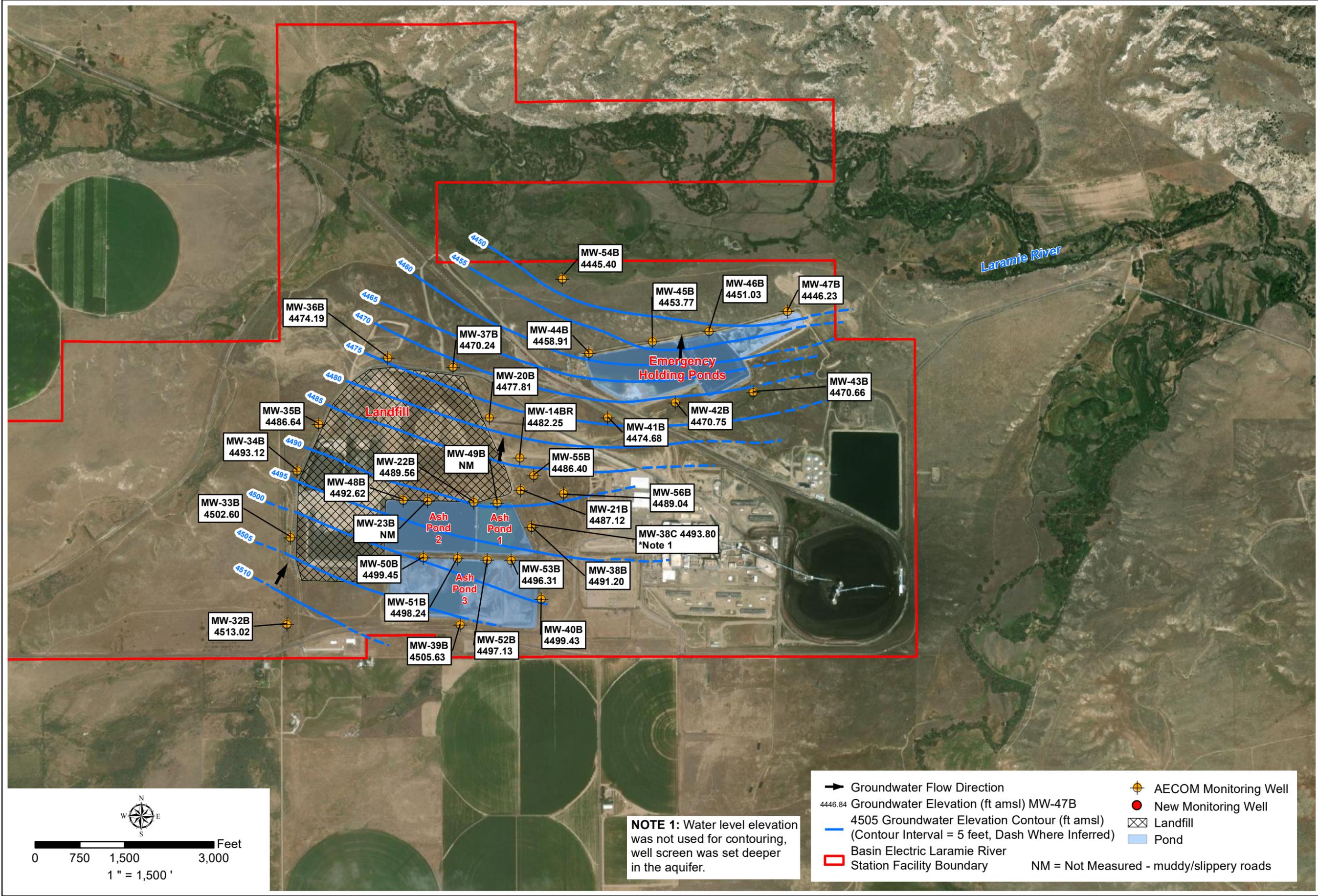
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Figures



 Basin Electric Laramie River Station Facility Boundary

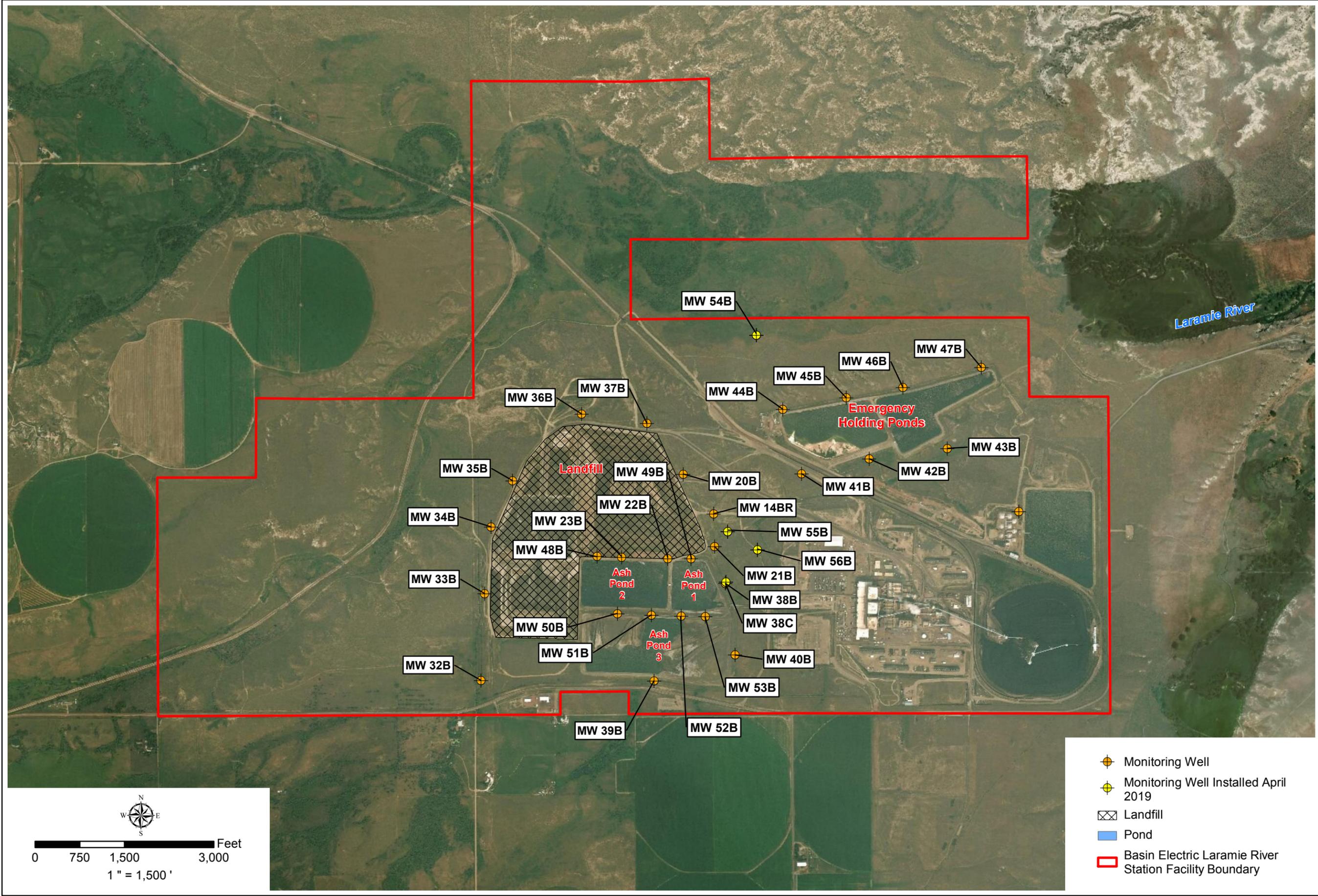
Filepath: \\na.aecom.net.com\LFSA\MER\FortCollins-USFCO4\Legacy\USFCO4\Working\060506860 Basin Electric LRS CCR\900-CAD GIS\920-GIS-Graphics\Figure_02_LRS_Potentiometric_Oct2021.mxd



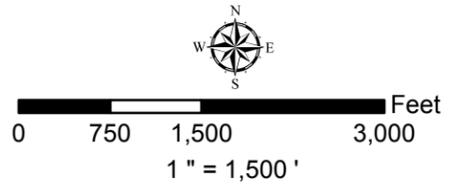
NOTE 1: Water level elevation was not used for contouring, well screen was set deeper in the aquifer.

- ➔ Groundwater Flow Direction
- 4446.84 Groundwater Elevation (ft amsl) MW-47B
- 4505 Groundwater Elevation Contour (ft amsl) (Contour Interval = 5 feet, Dash Where Inferred)
- Basin Electric Laramie River Station Facility Boundary
- ⊕ AECOM Monitoring Well
- New Monitoring Well
- ⊠ Landfill
- ▭ Pond
- NM = Not Measured - muddy/slippery roads

Potentiometric Surface Map
October 5, 2021



- Monitoring Well
- Monitoring Well Installed April 2019
- Landfill
- Pond
- Basin Electric Laramie River Station Facility Boundary



Tables

Table 3-1 Statistical Analysis Methods and Results - Bottom Ash Pond 1

Parameter (units)	Number of Samples	Percent Nondetects	Normal or Lognormal Distribution?	Statistical Test	Background UPL	GWPS Basis	GWPS	SSI Above Background?	Exceeds GWPS?	SSL Above GWPS?
Appendix III										
Boron (mg/L)	32	34	No/No	Nonparametric	0.19	----	----	Yes (MW-38B)	----	----
Calcium (mg/L)	32	0	No/No	Nonparametric	175	----	----	Yes (MW-21B, MW-38B)	----	----
Chloride (mg/L)	32	0	Yes/Yes	Parametric	51.6	----	----	Yes (MW-21B, MW-38B)	----	----
Fluoride (mg/L)	34	47	No/No	Nonparametric	1.33	----	----	Yes (MW-38B)	----	----
pH (std units)	32	0	No/No	Nonparametric	6.94/8.98	----	----	No	----	----
Sulfate (mg/L)	32	0	No/No	Nonparametric	923	----	----	Yes (MW-38B)	----	----
TDS (mg/L)	32	0	No/Yes	Parametric	1,482	----	----	Yes (MW-38B)	----	----
Appendix IV										
Antimony (mg/L)	30	100	No/No	MDL	0.002	----	----	No	----	----
Arsenic (mg/L)	30	100	No/No	MDL	0.005	----	----	No	----	----
Barium (mg/L)	34	0	No/Yes	Parametric	0.184	----	----	No	----	----
Beryllium (mg/L)	30	100	No/No	MDL	0.001	----	----	No	----	----
Cadmium (mg/L)	30	100	No/No	MDL	0.001	----	----	No	----	----
Chromium (mg/L)	34	68	No/No	Nonparametric	0.011	MCL	0.1	Yes (MW-21B)	No	No
Cobalt (mg/L)	32	87.5	No/No	Nonparametric	0.004	----	----	No	----	----
Fluoride (mg/L)	34	47.06	No/No	Nonparametric	1.33	MCL	4.0	Yes (MW-38B)	Yes	No
Lead (mg/L)	30	97	No/No	Nonparametric	0.004	----	----	No	----	----
Lithium (mg/L)	34	0	Yes/Yes	Parametric	0.055	§257.95(h)(3)	0.055	Yes (MW-38B)	Yes	Yes (MW-38B)
Mercury (mg/L)	34	100	No/No	MDL	0.0002	----	----	No	----	----
Molybdenum (mg/L)	34	24	No/No	Nonparametric	0.015	§257.95(h)(2)	0.1	Yes (MW-21B, MW-38B)	Yes (MW-38B)	Yes (MW-38B)
Radium 226+228 (pCi/L)	30	70	No/Yes	Nonparametric	1.09	MCL	5	Yes (MW-38B)	No	No
Selenium (mg/L)	34	71	No/No	Nonparametric	0.011	MCL	0.05	Yes (MW-21B)	No	No
Thallium (mg/L)	30	100	No/No	Nonparametric	0.001	----	----	No	----	----

UPL - upper prediction limit

GWPS - groundwater protection standard

SSI - statistically significant increase

SSL - statistically significant level (95LCL exceeds GWPS)

MCL - maximum contaminant level

mg/L - milligram per liter

pCi/L - picocuries per liter

MDL - UPL set at maximum Method Detection Limit

Table 3-2 Statistical Analysis Methods and Results - Ash Pond 2, Ash Pond 3, Ash Landfill Multiunit

Parameter (units)	Number of Samples	Percent Nondetects	Normal or Lognormal Distribution?	Statistical Test	Background UPL	GWPS Basis	GWPS	SSI Above Background?	Exceeds GWPS?	SSL Above GWPS?
Appendix III										
Boron (mg/L)	30	0	No/No	Nonparametric	0.31	----	----	No	----	----
Calcium (mg/L)	30	0	Yes/Yes	Parametric	214	----	----	Yes (MW-37B)	----	----
Chloride (mg/L)	30	0	No/No	Nonparametric	97.1	----	----	Yes (MW-37B)	----	----
Fluoride (mg/L)	32	31	No/No	Nonparametric	1.19	----	----	No	----	----
pH (std units)	30	0	No/No	Nonparametric	6.37/7.78	----	----	No	----	----
Sulfate (mg/L)	30	0	No/No	Nonparametric	877	----	----	No	----	----
TDS (mg/L)	30	0	No/No	Nonparametric	1,840	----	----	No	----	----
Appendix IV										
Antimony (mg/L)	30	100	No/No	MDL	0.002	----	----	No	----	----
Arsenic (mg/L)	30	97	No/No	MDL	0.006	----	----	No	----	----
Barium (mg/L)	32	0	No/No	Nonparametric	0.11	----	----	No	----	----
Beryllium (mg/L)	30	100	No/No	MDL	0.001	----	----	No	----	----
Cadmium (mg/L)	30	100	No/No	MDL	0.001	----	----	No	----	----
Chromium (mg/L)	32	97	No/No	Nonparametric	0.002	MCL	0.1	Yes (MW-14BR)	No	No
Cobalt (mg/L)	28	89	No/No	Nonparametric	0.003	----	----	No	----	----
Fluoride (mg/L)	32	31	No/No	Nonparametric	1.19	MCL	4.0	No	----	----
Lead (mg/L)	30	100	No/No	MDL	0.001	----	----	No	----	----
Lithium (mg/L)	32	0	Yes/Yes	Parametric	0.087	----	----	No	----	----
Mercury (mg/L)	30	100	No/No	MDL	0.0002	----	----	No	----	----
Molybdenum (mg/L)	32	31	No/No	Nonparametric	0.069	----	----	No	----	----
Radium 226+228 (pCi/L)	32	28	No/Yes	Parametric	1.848	----	----	No	----	----
Selenium (mg/L)	32	100	No/No	MDL	0.005	MCL	0.05	Yes (MW-14BR, MW-36B, MW-37B, MW-53B)	No	No
Thallium (mg/L)	30	100	No/No	MDL	0.001	MCL	0.002	Yes (MW-14BR, MW-37B)	No	No

UPL - upper prediction limit
 GWPS - groundwater protection standard
 SSI - statistically significant increase
 SSL - statistically significant level (95LCL exceeds GWPS)
 MCL - maximum contaminant level
 mg/L - milligram per liter
 pCi/L - picocuries per liter
 MDL - UPL set at maximum Method Detection Limit

Table 3-3 Statistical Analysis Methods and Results - Emergency Holding Ponds

Parameter (units)	Number of Samples	Percent Nondetects	Normal or Lognormal Distribution?	Statistical Test	Background UPL	GWPS Basis	GWPS	SSI Above Background?	Exceeds GWPS?	SSL Above GWPS?
Appendix III										
Boron (mg/L)	45	0	No/No	Nonparametric	1.07	----	----	No	----	----
Calcium (mg/L)	45	0	Yes/Yes	Parametric	487	----	----	No	----	----
Chloride (mg/L)	45	0	No/No	Nonparametric	320	----	----	No	----	----
Fluoride (mg/L)	48	79	No/No	Nonparametric	1.07	----	----	No	----	----
pH (std units)	38	0	No/No	Nonparametric	6.45/7.88	----	----	No	----	----
Sulfate (mg/L)	45	4	No/No	Nonparametric	2,200	----	----	No	----	----
TDS (mg/L)	45	0	No/No	Nonparametric	4,000	----	----	No	----	----
Appendix IV										
Antimony (mg/L)	42	100	No/No	MDL	0.002	----	----	No	----	----
Arsenic (mg/L)	42	100	No/No	MDL	0.005	----	----	No	----	----
Barium (mg/L)	48	0	No/Yes	Parametric	0.06	MCL	2	Yes (MW-47B)	No	No
Beryllium (mg/L)	42	100	No/No	MDL	0.001	----	----	No	----	----
Cadmium (mg/L)	42	100	No/No	MDL	0.001	----	----	No	----	----
Chromium (mg/L)	48	31	No/No	Nonparametric	0.009	----	----	No	----	----
Cobalt (mg/L)	42	88	No/No	Nonparametric	0.002	----	----	No	----	----
Fluoride (mg/L)	48	79	No/No	Nonparametric	1.07	----	----	No	----	----
Lead (mg/L)	42	100	No/No	MDL	0.001	----	----	No	----	----
Lithium (mg/L)	48	0	Yes/Yes	Parametric	0.085	----	----	No	----	----
Mercury (mg/L)	42	100	No/No	MDL	0.0002	----	----	No	----	----
Molybdenum (mg/L)	48	0	No/No	Nonparametric	0.180	----	----	No	----	----
Radium 226+228 (pCi/L)	45	58	No/No	Nonparametric	1.020	----	----	No	----	----
Selenium (mg/L)	48	48	No/No	Nonparametric	0.016	----	----	No	----	----
Thallium (mg/L)	42	100	No/No	MDL	0.001	----	----	No	----	----

UPL - upper prediction limit

GWPS - groundwater protection standard

SSI - statistically significant increase

SSL - statistically significant level (95LCL exceeds GWPS)

MCL - maximum contaminant level

mg/L - milligram per liter

pCi/L - picocuries per liter

MDL - UPL set at maximum Method Detection Limit

Attachment A

Sampling and Analysis Report, 2021

2021 Sampling and Analysis Report CCR Monitoring Program

Laramie River Station
Wheatland, Wyoming

Basin Electric Power Cooperative

January 31, 2022

Prepared for:

Basin Electric Power Cooperative
Bismarck, North Dakota

Prepared by:

AECOM
1601 Prospect Park Way
Fort Collins, CO 80525
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Project number: 60632474

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List of Appendices

Appendix I	Groundwater Flow Calculations
Appendix II	Analytical Laboratory and Data Validation Reports

List of Acronyms

AECOM	AECOM Technical Services, Inc.
Basin	Basin Electric Power Cooperative
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
LRS	Laramie River Station
USEPA	United States Environmental Protection Agency

1. Introduction

On behalf of Basin Electric Power Cooperative (Basin), AECOM Technical Services, Inc. (AECOM) prepared this Coal Combustion Residuals (CCR) Groundwater Sampling and Analysis Report for the Basin Laramie River Station (LRS).

This Sampling and Analysis Report was prepared to present the results of sampling and analysis of groundwater conducted per the monitoring requirements of the United States Environmental Protection Agency (USEPA) CCR rule (Chapter 40 of the Code of Federal Regulations [CFR], §§ 257.90 to 257.98).

The following three CCR unit/multi-units are present at LRS:

- Bottom Ash Pond 1;
- Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill (multi-unit); and
- Emergency Holding Ponds (multi-unit).

Semi-annual groundwater assessment monitoring was performed at LRS in June and October 2021 for the three CCR unit/multi-units. Assessment monitoring involves groundwater level measurements, collection of groundwater samples from CCR monitoring wells, and analysis for Part 257 Appendix III and selected Appendix IV parameters.

2. Groundwater Flow

As required by 40 CFR § 257.93(c), groundwater elevations were measured in each well prior to purging each time groundwater was sampled. The groundwater measurements, presented in **Table 1**, were used to create potentiometric surface maps for the uppermost aquifer for the baseline monitoring events. The resulting potentiometric surface maps (contained in the operating record) were used to evaluate the direction of groundwater flow and hydraulic gradient for each subject CCR unit/multi-unit. **Figure 1** and **Figure 2** represent a potentiometric surface map which was constructed using measurements taken on June 2, 2021 and October 5, 2021, respectively, and show inferred groundwater flow directions for each CCR unit/multi-unit. The potentiometric maps are generally consistent with the groundwater flow patterns observed during the other CCR monitoring events performed at LRS since monitoring began in 2016. Groundwater flow velocities were calculated for each unit/multi-unit using measurements from the semi-annual assessment monitoring events in June and October 2021, as presented in **Appendix I** and summarized below:

CCR Unit/multi-unit	Calculated Seepage Velocities (ft/day)		
	Minimum	Maximum	Average
Bottom Ash Pond 1	0.026	0.42	0.11
Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill	0.013	2.6	0.18
Emergency Holding Ponds	0.04	2.6	0.33

Based on the groundwater flow conditions documented in this chapter, the relative function of the monitoring wells employed in the LRS CCR groundwater monitoring system is as follows:

CCR Unit/multi-unit	Background Wells	Downgradient Wells
Bottom Ash Pond 1	MW-52B, MW-53B	MW-49B, MW-21B, MW-38B, MW-38C*
Bottom Ash Pond 2, Bottom Ash Pond 3, Ash Landfill	MW-39B, MW-32B	MW-36B, MW-37B, MW-20B, MW-14BR, MW-40B, MW-52B, MW-53B
Emergency Holding Ponds	MW-41B, MW-42B, MW-43B	MW-44B, MW-45B, MW-46B, MW-47B

* MW-38C was added to the monitoring system following its installation during groundwater characterization activities in the spring of 2019.

The following 10 monitoring wells are also included in the LRS CCR monitoring system for the purpose of measuring groundwater elevations and evaluating groundwater flow direction and velocity in the vicinity of the bottom ash ponds and landfill: MW-22B, MW-33B, MW-34B, MW-35B, MW-48B, MW-50B, MW-51B, MW-54B, MW-55B, and MW-56B. These wells were added to the list following their installation during groundwater characterization activities conducted in the spring of 2019. Well MW-23B was removed from the monitoring well network after the well was found to be damaged in 2019 and it was determined the well was not needed to determine groundwater flow in the area.

3. Groundwater Quality

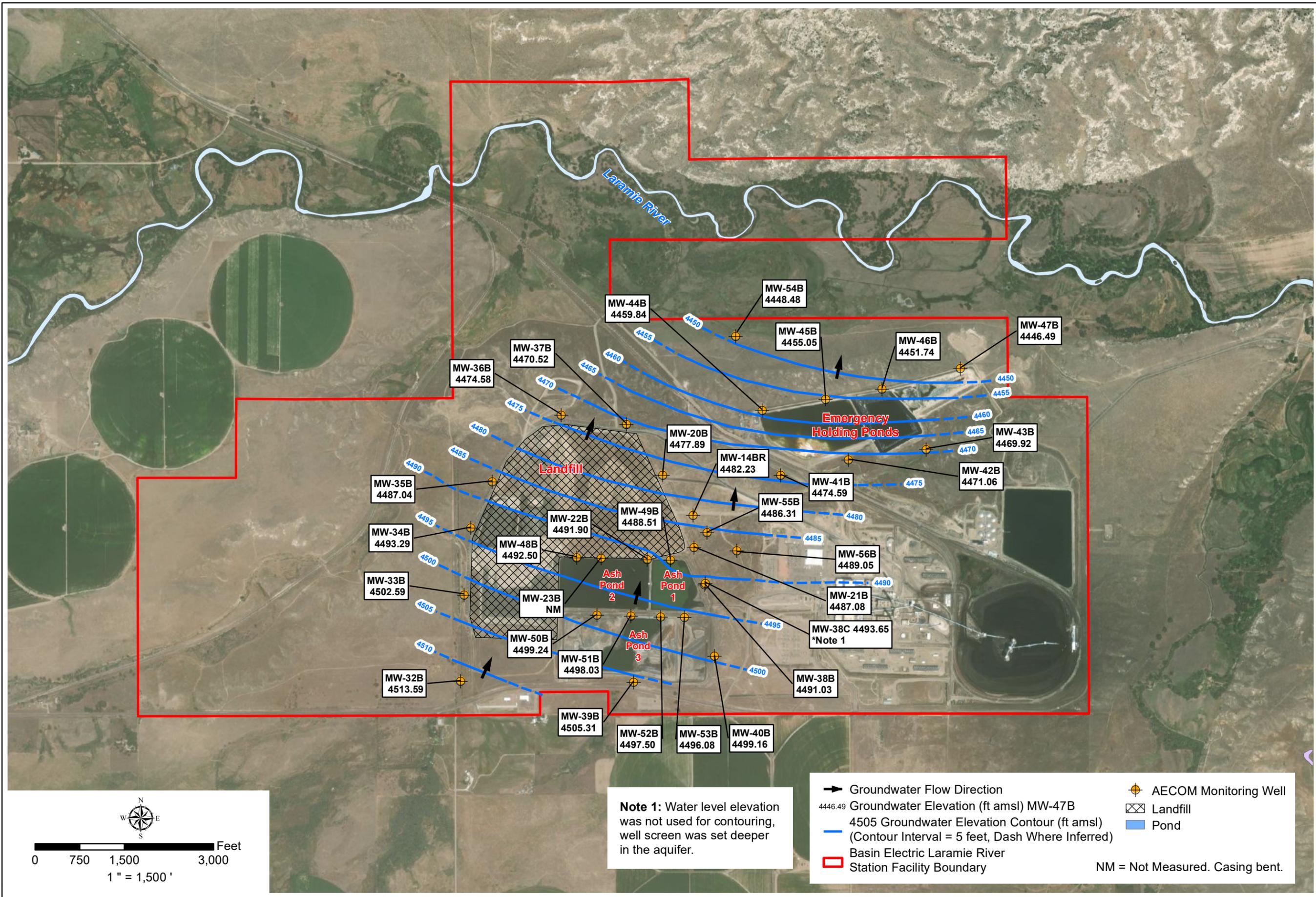
Eurofins TestAmerica provided laboratory reports following each monitoring event presenting the results of laboratory analysis. The laboratory reports are included in the operating record and were reviewed against the chain-of-custody forms and for compliance with maximum holding times and conformance with project-required methods. The reported analytical results were reviewed and verified by an AECOM data validator/chemist using USEPA guidelines (USEPA 2020¹). Data validation concluded that field and laboratory precision, field and laboratory accuracy, method compliance, and data set completeness were acceptable based on the data reported. No data were missing or rejected and all reported data are suitable for their intended use as reported with the clarifications and qualifications noted. Data validation reports were prepared for each monitoring event and are included in the operating record. The validated results were compiled into summary form as presented in **Tables 2, 3, and 4** for the two semi-annual assessment monitoring events in 2021. The first semi-annual event in June 2021 involved the laboratory analysis of samples for Appendix III parameters and all Appendix IV parameters. The second semi-annual event in October 2021 involved analysis for Appendix III and all Appendix IV parameters. The 2021 analytical laboratory and data validation reports are included as **Appendix II**.

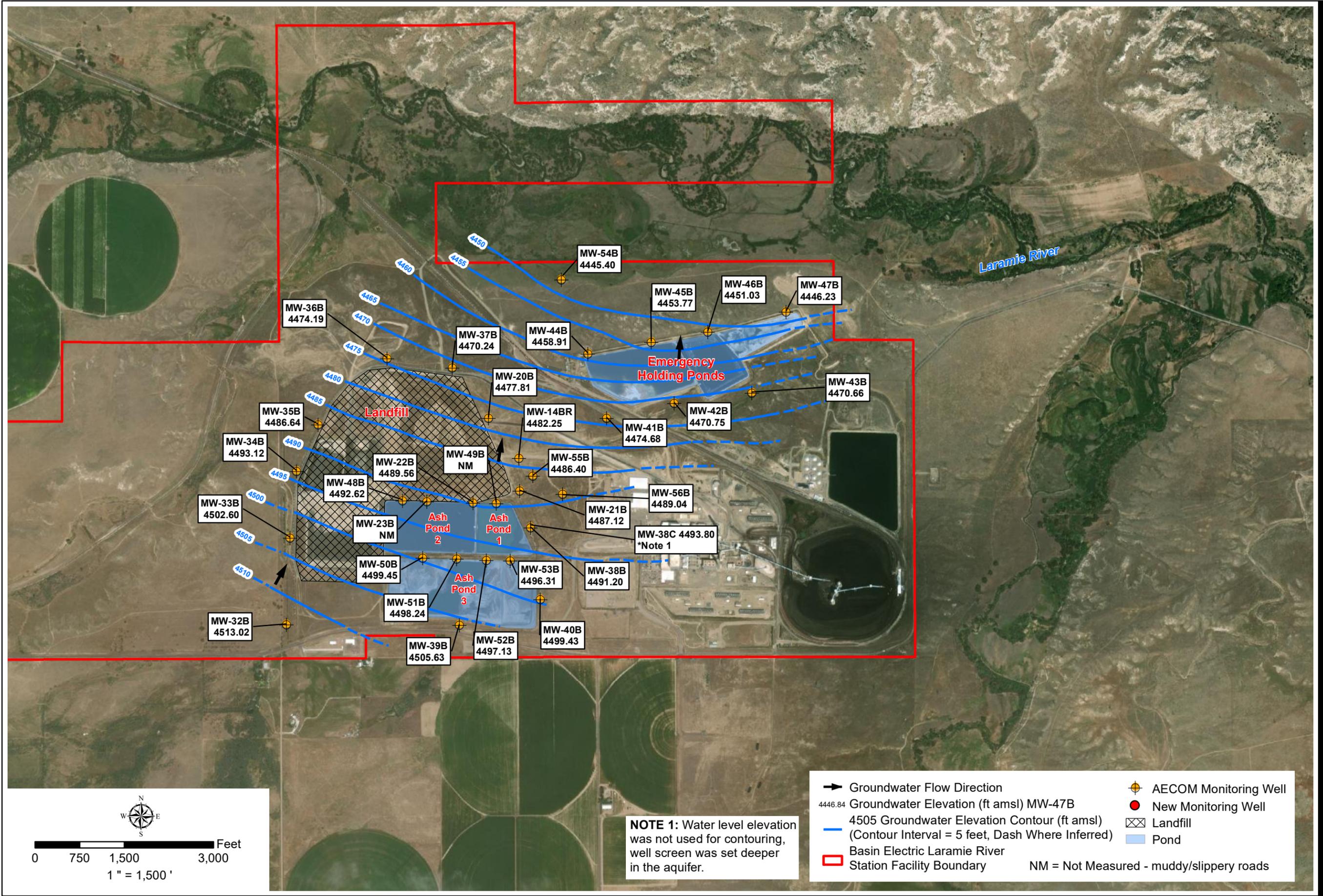
One well, MW-49B, was not sampled during the October 2021 monitoring event as it could not be located due to new road base being added to the area from nearby construction projects surrounding Pond 1. The well was able to be located in November 2021 and was determined to be in good condition. A new flush mount well completion pad was installed in December 2021 to be flush with the new road grade in the area. MW-49B will continue to be sampled during monitoring events in 2022.

Table 5 contains the results of quality assurance/quality control field blank samples collected during the groundwater monitoring events conducted in 2021.

¹ U.S. Environmental Protection Agency (USEPA). 2020. Superfund CLP National Functional Guidelines for Data Review. November 2020.

Figures





Potentiometric Surface Map
October 5, 2021

Tables

Table 1 Groundwater Level Measurements and Elevations

Location ID	Top of Casing Elevation (feet amsl)	June 2, 2021			October 5, 2021		
		Date	Depth To Water (feet)	Water Level Elevation (feet amsl)	Date	Depth To Water (feet)	Water Level Elevation (feet amsl)
MW-14BR	4537.90	6/2/2020	55.67	4,482.23	10/5/2021	55.65	4482.25
MW-20B	4535.47	6/2/2020	57.58	4,477.89	10/5/2021	57.66	4477.81
MW-21B	4539.58	6/2/2020	52.50	4,487.08	10/5/2021	52.46	4487.12
MW-22B	4569.21	6/3/2020	77.31	4,491.90	10/5/2021	79.65	4489.56
MW-23B	4569.48	6/3/2020	NM	NM	10/5/2021	NM	NM
MW-32B	4567.11	6/3/2020	53.52	4,513.59	10/6/2021	54.09	4513.02
MW-33B	4566.61	6/4/2020	64.02	4,502.59	10/5/2021	64.01	4502.60
MW-34B	4554.72	6/4/2020	61.43	4,493.29	10/5/2021	61.60	4493.12
MW-35B	4548.67	6/4/2020	61.63	4,487.04	10/5/2021	62.03	4486.64
MW-36B	4532.44	6/4/2020	57.86	4,474.58	10/6/2021	58.25	4474.19
MW-37B	4530.37	6/4/2020	59.85	4,470.52	10/6/2021	60.13	4470.24
MW-38B	4547.48	6/3/2020	56.45	4,491.03	10/6/2021	56.28	4491.20
MW-38C	4549.45	6/2/2020	55.80	4,493.65	10/6/2021	55.65	4493.80
MW-39B	4581.45	6/3/2020	76.14	4,505.31	10/5/2021	75.82	4505.63
MW-40B	4589.59	6/3/2020	90.43	4,499.16	10/6/2021	90.16	4499.43
MW-41B	4529.64	6/2/2020	55.05	4,474.59	10/5/2021	54.96	4474.68
MW-42B	4515.83	6/3/2020	44.77	4,471.06	10/5/2021	45.08	4470.75
MW-43B	4501.44	6/3/2020	31.52	4,469.92	10/5/2021	30.78	4470.66
MW-44B	4529.39	6/2/2020	69.55	4,459.84	10/5/2021	70.48	4458.91
MW-45B	4530.92	6/2/2020	75.87	4,455.05	10/5/2021	77.15	4453.77
MW-46B	4527.72	6/2/2020	75.98	4,451.74	10/5/2021	76.69	4451.03
MW-47B	4522.60	6/2/2020	76.11	4,446.49	10/5/2021	76.37	4446.23
MW-48B	4568.66	6/3/2020	76.16	4,492.50	10/5/2021	76.04	4492.62
MW-49B	4564.36	6/3/2020	75.85	4,488.51	10/5/2021	NM	NM
MW-50B	4588.34	6/3/2020	89.10	4,499.24	10/5/2021	88.89	4499.45
MW-51B	4588.90	6/3/2020	90.87	4,498.03	10/5/2021	90.66	4498.24
MW-52B	4589.60	6/3/2020	92.10	4,497.50	10/7/2021	92.47	4497.13
MW-53B	4589.23	6/3/2020	93.15	4,496.08	10/6/2021	92.92	4496.31
MW-54B	4454.80	6/2/2020	6.32	4,448.48	10/5/2021	9.40	4445.40
MW-55B	4532.37	6/3/2020	46.06	4,486.31	10/5/2021	45.97	4486.40
MW-56B	4541.95	6/3/2020	52.90	4,489.05	10/5/2021	52.91	4489.04

Notes:

amsl = above mean sea level

NM = not measured

Geodetic Datum: North American Datum of 1983 (NAD 83)

Vertical Datum: North American Vertical Datum of 1988 (NAVD 88)

Table 2: Groundwater Analytical Data - Bottom Ash Pond 1

Relative Location	Well ID	Sample Date	Chemical Name Unit Sample Type	Appendix III Constituents							Appendix IV Constituents													
				Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH SU	Sulfate mg/L	TDS mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium 226/228 pCi/L	Selenium mg/L	Thallium mg/L
Background	MW-52B	6/4/2021	N	0.174	158	47.7	< 0.500 U	7.66	455	1130	< 0.00200 U	< 0.00500 U	0.0653	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0456	< 0.000200 U	< 0.0100 U	< 1.02 U	< 0.00500 U	< 0.00100 U
	MW-52B	10/7/2021	N	0.166	159	49.1	< 0.500 U	7.52	480	1090	< 0.00200 U	< 0.00500 U	0.0512	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0385	< 0.000200 U	< 0.0100 U	< 0.934 U	< 0.00500 U	< 0.00100 U
	MW-53B	6/4/2021	N	0.113	99.7	51.1	1.02	7.93	220	698	< 0.00200 U	< 0.00500 U	0.0427	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0341	< 0.000200 U	< 0.0100 U	0.767	0.0103	< 0.00100 U
	MW-53B	10/6/2021	N	0.115	103	52.7	0.948	7.78	208	683	< 0.00200 U	< 0.00500 U	0.0527	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0350	< 0.000200 U	< 0.0100 U	< 0.749 U	0.0106	< 0.00100 U
Downgradient	MW-21B	6/4/2021	N	0.195	246	227	0.623	7.7	603	1620	< 0.00200 U	< 0.00500 U	0.0408	< 0.00100 U	< 0.00100 U	0.0143	< 0.00100 U	< 0.00100 U	0.0387	< 0.000200 U	0.0176	< 0.382 U	0.0397	< 0.00100 U
	MW-21B	10/5/2021	FD	0.167	205	185	0.675	7.67	495	1270	< 0.00200 U	< 0.00500 U	0.0547	< 0.00100 U	< 0.00100 U	0.0123	< 0.00100 U	< 0.00100 U	0.0335	< 0.000200 U	0.0146	0.901 J+	0.0335	< 0.00100 U
	MW-21B	10/5/2021	N	0.166	198	184	0.686	7.67	492	1270	< 0.00200 U	< 0.00500 U	0.0538	< 0.00100 U	< 0.00100 U	0.0122	< 0.00100 U	< 0.00100 U	0.0345	< 0.000200 U	0.0155	0.939 J+	0.0343	< 0.00100 U
	MW-38B	6/4/2021	N	3.43	515	349	0.934 F1	7.53	5790	9240	< 0.00200 U	< 0.00500 U	0.0161	< 0.00100 U	< 0.00100 U	0.00759	0.00130	< 0.00100 U	0.117	< 0.000200 U	0.211	< 0.322 U	0.00839	< 0.00100 U
	MW-38B	10/6/2021	N	3.21	331	325	7.69	7.31	5400	8670	< 0.00200 U	< 0.00500 U	0.0170	< 0.00100 U	< 0.00100 U	0.00812	< 0.00100 U	< 0.00100 U	0.124	< 0.000200 U	0.237	1.25 J+	0.00858	< 0.00100 U
	MW-38C	6/4/2021	N	< 0.100 U	99.3	29.5	0.536	7.6	202	616	< 0.00200 U	< 0.00500 U	0.0465	< 0.00100 U	< 0.00100 U	< 0.00200 U	< 0.00100 U	< 0.00100 U	0.0232	< 0.000200 U	< 0.0100 U	0.638	0.00608	< 0.00100 U
	MW-38C	10/6/2021	N	< 0.100 U	103	29.5	0.566	7.19	214	613	< 0.00200 U	< 0.00500 U	0.0471	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0212	< 0.000200 U	< 0.0100 U	0.504 J+	0.00584	< 0.00100 U
	MW-49B	6/4/2021	N	0.165	144	36.3	< 0.500 U	7.72	422	1010	< 0.00200 U	< 0.00500 U	0.0617	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0414	< 0.000200 U	< 0.0100 U	< 0.427 U	< 0.00500 U	< 0.00100 U

Notes:
mg/L = milligrams per liter
U = undetected at the reporting limit/concentration
N = primary Sample
FD = field duplicate
J+ = estimated concentration, biased high

Table 3: Groundwater Analytical Data - Bottom Ash Pond 2, Bottom Ash Pon

				Appendix IV Constituents													
				Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium 226/228 pCi/L	Selenium mg/L	Thallium mg/L
Relative Location	Well ID	Sample Date	Chemical Name Unit Sample Type														
Background	MW-32B	6/2/2021	N	< 0.00200 U	< 0.00500 U	0.0332	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0743	< 0.000200 U	< 0.0100 U	0.690	< 0.00500 U	< 0.00100 U
	MW-32B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0333	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0714	< 0.000200 U	< 0.0100 U	1.76 J+	< 0.00500 U	< 0.00100 U
	MW-39B	6/2/2021	N	< 0.00200 U	< 0.00500 U	0.0332	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0579	< 0.000200 U	< 0.0100 U	0.725	< 0.00500 U	< 0.00100 U
	MW-39B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0342	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0529	< 0.000200 U	< 0.0100 U	0.762 J+	< 0.00500 U	< 0.00100 U
Downgradient	MW-14BR	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0433	< 0.00100 U	< 0.00100 U	0.00948	< 0.00100 U	< 0.00100 U	0.0313	< 0.000200 U	0.0103	0.509	0.0132	< 0.00100 U
	MW-14BR	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0503	< 0.00100 U	< 0.00100 U	0.0104	< 0.00100 U	< 0.00100 U	0.0284	< 0.000200 U	0.0123	1.23 J+	0.0142	0.00163
	MW-20B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0550	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0358	< 0.000200 U	< 0.0100 U	0.729	< 0.00500 U	< 0.00100 U
	MW-20B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0575	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0313	< 0.000200 U	< 0.0100 U	0.437 J+	< 0.00500 U	< 0.00100 U
	MW-36B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0624	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0329	< 0.000200 U	< 0.0100 U	0.752	0.00627	< 0.00100 U
	MW-36B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0719	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0300	< 0.000200 U	< 0.0100 U	0.711 K+	0.00813	< 0.00100 U
	MW-37B	6/3/2021	FD	< 0.00200 U	< 0.00500 U	0.0648	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0400	< 0.000200 U	0.0604	0.783	0.0140	< 0.00100 U
	MW-37B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0629	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0394	< 0.000200 U	0.0592	< 0.591 U	0.0136	< 0.00100 U
	MW-37B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0668	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0347	< 0.000200 U	0.0674	1.08 J+	0.0140	0.00148
	MW-40B	6/4/2021	N	< 0.00200 U	< 0.00500 U	0.0274	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0508	< 0.000200 U	< 0.0100 U	1.06	< 0.00500 U	< 0.00100 U
	MW-40B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0281	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0436	< 0.000200 U	< 0.0100 U	1.67 J+	< 0.00500 U	< 0.00100 U
	MW-52B	6/4/2021	N	< 0.00200 U	< 0.00500 U	0.0653	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0456	< 0.000200 U	< 0.0100 U	< 1.02 U	< 0.00500 U	< 0.00100 U
	MW-52B	10/7/2021	N	< 0.00200 U	< 0.00500 U	0.0512	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0385	< 0.000200 U	< 0.0100 U	< 0.934 U	< 0.00500 U	< 0.00100 U
	MW-53B	6/4/2021	N	< 0.00200 U	< 0.00500 U	0.0427	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0341	< 0.000200 U	< 0.0100 U	0.767	0.0103	< 0.00100 U
	MW-53B	10/6/2021	N	< 0.00200 U	< 0.00500 U	0.0527	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0350	< 0.000200 U	< 0.0100 U	< 0.749 U	0.0106	< 0.00100 U

Notes:
mg/L = milligrams per liter
U = undetected at the reporting limit/concentration
UJ = undetected, reporting limit is estimated
FD = field duplicate
N = primary sample
J+ = estimated concentration, biased high

Table 4: Groundwater Analytical Data - Emergency Holding Ponds

Chemical Name Unit				Appendix IV Constituents													
				Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium 226/228 pCi/L	Selenium mg/L	Thallium mg/L
Relative Location	Well ID	Sample Date	Sample Type														
Background	MW-41B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0200	< 0.00100 U	< 0.00100 U	< 0.00500 U	0.00118	< 0.00100 U	0.0532	< 0.000200 U	0.139	0.530	0.00652	< 0.00100 U
	MW-41B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0193	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0411	< 0.000200 U	0.118	0.563 J+	0.00635	< 0.00100 U
	MW-42B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0189	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0431	< 0.000200 U	0.0662	< 0.393 U	0.0161	< 0.00100 U
	MW-42B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0262	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0653	< 0.000200 U	0.0653	< 0.855 U	0.0102	< 0.00100 U
	MW-43B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0266	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0301	< 0.000200 U	0.0180	< 0.582 U	< 0.00500 U	< 0.00100 U
	MW-43B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0257	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0264	< 0.000200 U	0.0176	1.01	< 0.00500 U	< 0.00100 U
Downgradient	MW-44B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0481	< 0.00100 U	< 0.00100 U	0.00670	< 0.00100 U	< 0.00100 U	0.0333	< 0.000200 U	< 0.0100 U	0.734	0.00570	< 0.00100 U
	MW-44B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0537	< 0.00100 U	< 0.00100 U	0.00649	< 0.00100 U	< 0.00100 U	0.0298	< 0.000200 U	< 0.0100 U	< 0.769 U	0.00615	< 0.00100 U
	MW-45B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0440	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0337	< 0.000200 U	< 0.0100 U	0.787	0.00905	< 0.00100 U
	MW-45B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0458	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	0.0297	< 0.000200 U	< 0.0100 U	< 0.849 U	0.00898	< 0.00100 U
	MW-46B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0620	< 0.00100 U	< 0.00100 U	0.0110	< 0.00100 U	< 0.00100 U	0.0254	< 0.000200 U	< 0.0100 U	< 0.470 U	< 0.00500 U	< 0.00100 U
	MW-46B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0531	< 0.00100 U	< 0.00100 U	0.00672	< 0.00100 U	< 0.00100 U	0.0191	< 0.000200 U	< 0.0100 U	< 0.951 U	< 0.00500 U	< 0.00100 U
	MW-47B	6/3/2021	N	< 0.00200 U	< 0.00500 U	0.0757	< 0.00100 U	< 0.00100 U	0.00588	< 0.00100 U	< 0.00100 U	0.0284	< 0.000200 U	< 0.0100 U	< 0.377 U	< 0.00500 U	< 0.00100 U
	MW-47B	10/5/2021	N	< 0.00200 U	< 0.00500 U	0.0772	< 0.00100 U	< 0.00100 U	0.00657	< 0.00100 U	< 0.00100 U	0.0227	< 0.000200 U	< 0.0100 U	< 0.824 U	< 0.00500 U	< 0.00100 U

Notes:
mg/L = milligrams per liter
U = undetected at the reporting limit/concentration
N = primary sample
J+ = estimated concentration, biased high

Table 5: Groundwater Analytical Data - Field Blanks

Chemical Name Unit			Appendix IV Constituents													
			Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Radium 226/228 pCi/L	Selenium mg/L	Thallium mg/L
Sample ID	Sample Date	Sample Type														
FB	6/4/2021	FB	< 0.00200 U	< 0.00500 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	< 0.00800 U ⁺	< 0.000200 U	< 0.0100 U	0.559	< 0.00500 U	< 0.00100 U
FB	10/5/2021	FB	< 0.00200 U	< 0.00500 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	< 0.00500 U	< 0.00100 U	< 0.00100 U	< 0.00800 U	< 0.000200 U	< 0.0100 U	< 0.865 U	< 0.00500 U	< 0.00100 U

Notes:
 mg/L = milligrams per liter
 U = undetected at reporting limit/concentration
 FB = field blank

Appendix I

Groundwater Flow Calculations

Project: Laramie River Station
Calculations by: Jeremy Hurshman
Date: 1/20/2022

CCR Unit: Bottom Ash Pond 1
Checked by: Jason Lach
Date: 1/25/2022

Background Wells: MW-52B, MW-53B
Downgradient Wells: MW-49B, MW-21B, MW-38B

Hydraulic Gradient (i, ft/ft)

$$i = -dh/dl$$

where, i= hydraulic gradient

dh= change in hydraulic head between upgradient and downgradient locations

dl= horizontal distance between upgradient and downgradient locations, parallel to flow (perpendicular to potentiometric contours)

Date	Upgradient WL elevation (ft MSL)	Downgradient WL Elevation (ft MSL)	dh (ft)	dl (ft)	i (ft/ft)
June 2021 (49B)	4495	4488.51	6.49	800	0.0081
October 2020 (52B)	4497.13	4490	7.13	940	0.0076
				Minimum	0.0076
				Maximum	0.0081
				Average	0.0078

Hydraulic Conductivity (K, ft/d)

K, from slug and pumping tests		
Minimum	1.04	ft/day
Maximum	1.04	ft/day
Average (geomean)	1.04	ft/day

Specific Yield, Effective Porosity

Specific Yield, Effective Porosity	
Minimum	0.02
Maximum	0.3
Average	0.15

Note: Effective porosity/specific yield is based on literature values from Arikaree Formation literature and textbook values for sandstone

Seepage Velocity

$$v_s = -K * i / n_e$$

where,

v_s= seepage velocity, feet per day (ft/d)

K= hydraulic conductivity, feet per day (ft/d)

i= hydraulic gradient, feet per foot (ft/ft)

n_e= effective porosity/specific yield, unitless

Calculated Seepage Velocities (ft/day)				
	K (ft/day)	i (ft/ft)	n _e	v _s (ft/day)
Minimum	1.04	0.0076	0.30	0.026
Maximum	1.04	0.0081	0.02	0.42
	Geometric Mean			0.11

Project: Laramie River Station
Calculations by: Jeremy Hurshman
Date: 1/20/2022

CCR Unit: Bottom Ash Ponds 2&3 and Ash Landfill
Checked by: Jason Lach
Date: 1/25/2022

Background Wells: MW-39B, MW-32B
Downgradient Wells: MW-36B, MW-37B, MW-20B, MW-148R, MW-40B, MW-52B, MW-53B

Hydraulic Gradient (i, ft/ft)

$$i = -dh/dl$$

where, i= hydraulic gradient
dh= change in hydraulic head between upgradient and downgradient locations
dl= horizontal distance between upgradient and downgradient locations, parallel to flow (perpendicular to potentiometric contours)

Summary Table - Hydraulic Gradient

Date	Vector	Upgradient WL elevation (ft MSL)	Downgradient WL Elevation (ft MSL)	dh (ft)	dl (ft)	i (ft/ft)	Average i (ft/ft)
June 2, 2021	Vector 1 (36B)	4510.00	4474.58	35.42	4595	0.0077	0.0078
	Vector 2 (48B)	4505.00	4492.50	12.50	1690	0.0074	
	Vector 3 (37B)	4505.00	4470.52	34.48	4125	0.0084	
October 5, 2021	Vector 1 (36B)	4505	4474.19	30.81	3740	0.0082	0.0084
	Vector 2 (20B)	4505.00	4477.81	27.19	3375	0.0081	
	Vector 3 (37B)	4505.00	4470.24	34.76	3940	0.0088	
						Minimum	0.0078
						Maximum	0.0084
						Average	0.0081

Hydraulic Conductivity (K, ft/d)

K from slug and pumping tests conducted at site		
Minimum	0.50	ft/day
Maximum	6.16	ft/day
Average (geomean)	1.54	ft/day

Specific Yield, Effective Porosity

Specific Yield, Effective Porosity	
Minimum	0.02
Maximum	0.3
Average	0.15

Note: Effective porosity/specific yield is based on literature values from Arikaree Formation literature and textbook values for sandstone

Seepage Velocity

$$v_s = -K * i / n_e$$

where, v_s= seepage velocity, feet per day (ft/d)
K= hydraulic conductivity, feet per day (ft/d)
i= hydraulic gradient, feet per foot (ft/ft)
n_e= effective porosity/specific yield, unitless

Calculated Seepage Velocities (ft/day)				
	K (ft/day)	i (ft/ft)	n _e	v _s (ft/day)
Minimum	0.50	0.0078	0.30	0.013
Maximum	6.16	0.0084	0.02	2.6
Geometric Mean				0.18

Project: Laramie River Station
Calculations by: Jeremy Hurshman
Date: 1/20/2022

CCR Unit: Emergency Holding Ponds
Checked by: Jason Lach
Date: 1/25/2022

Background Wells: MW-41B, MW-42B, MW-43B
Downgradient Wells: MW-44B, MW-45B, MW-46B, MW-47B

Hydraulic Gradient (i, ft/ft)

Governing Equation:
(Hydraulic Gradient)

$$i = -dh/dl$$

where, i= hydraulic gradient

dh= change in hydraulic head between upgradient and downgradient locations

dl= horizontal distance between upgradient and downgradient locations, parallel to flow (perpendicular to potentiometric contours)

Calculation Table

Date	Vector	Upgradient WL elevation (ft MSL)	Downgradient WL Elevation (ft MSL)	dh (ft)	dl (ft)	i (ft/ft)	Average i (ft/ft)
June 2, 2021	Vector 1 (42B)	4471.06	4455.00	16.06	1030	0.0156	0.0166
	Vector 2 (43B)	4469.92	4450.00	19.92	1125	0.0177	
October 5, 2021	Vector 1 (42B)	4470.75	4450.00	20.75	1330	0.0156	0.0170
	Vector 2 (43B)	4470.66	4450.00	20.66	1125	0.0184	
						Minimum	0.0166
						Maximum	0.0170
						Average	0.0168

Hydraulic Conductivity (K, ft/d)

K from slug and pumping tests conducted at site		
Minimum	0.75	ft/day
Maximum	3.12	ft/day
Average (geomean)	1.31	ft/day

Specific Yield, Effective Porosity

Specific Yield, Effective Porosity	
Minimum	0.02
Maximum	0.3
Average	0.15

Note: Effective porosity/specific yield is based on literature values from Arikaree Formation literature and textbook values for sandstone

Seepage Velocity

$$v_s = -K * i / n_e$$

where,

v_s= seepage velocity, feet per day (ft/d)

K= hydraulic conductivity, feet per day (ft/d)

i= hydraulic gradient, feet per foot (ft/ft)

n_e= effective porosity/specific yield, unitless

Calculated Seepage Velocities (ft/day)				
	K (ft/day)	i (ft/ft)	n _e	v _s (ft/day)
Minimum	0.75	0.0166	0.30	0.04
Maximum	3.12	0.0170	0.02	2.6
Geometric Mean				0.33

Appendix II

Analytical Laboratory and Data Validation Reports



Environment

Submitted to:
Basin Electric Laramie River Station

Submitted by:
AECOM
Denver, CO

August 11, 2021
Inorganic and Radiochemistry
Limited Data Validation Report

Basin Electric Laramie, Wyoming
Groundwater Sampling – June 2021
Analyzed by Eurofins TestAmerica Laboratories

Prepared By Katie Abbott
Data Reviewer/Chemist

Overview

The samples analyzed for the June 2021 sampling event are listed in the Table of Samples Validated (page 3). Limited data validation was performed on a total of twenty groundwater samples, one field duplicate sample, and one field blank Quality Control (QC) sample.

Samples were submitted to Eurofins TestAmerica Laboratories of Denver, Colorado (TA-DEN).

The reviewed analyses were Select Total Metals by SW-846 Methods 6010C, 6020A, and 7470A, Chloride, Fluoride, and Sulfate by SW-846 Method 9056A, Total Dissolved Solids (TDS) by SM2540C, Radium-226 by SW-846 Method 9315, Radium-228 by SW-846 Method 9320, and combined Radium-226 and Radium-228 by calculation.

The Analytical Limited Data Validation Checklist is presented as pages 4-9. Data were evaluated using guidance set forth in the *United States Environmental Protection Agency (USEPA) contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review*, document number EPA-540-R-2017-001, January 2017; method requirements, and laboratory criteria.

The following data components were reviewed during the data validation procedure:

Submitted Deliverables
Case Narratives (including any assigned laboratory flags)
Chain-of-Custody form(s) and sample integrity
Sample results, reporting limits, dilution factors
Holding times
Method (preparation) blank results
Field blank results
Laboratory control sample (LCS), laboratory control sample duplicate (LCSD) results
Matrix spike (MS), matrix spike duplicate (MSD) results
Laboratory duplicate (or spiked duplicate) results
Field duplicate (FD) results (calculated Relative Percent Differences [RPD])
Electronic data deliverables (EDDs) – EQUIS format

Data Validation Qualifiers Assigned During this Review

- J- estimated concentration, low bias indicated
- J estimated concentration
- U non-detect

Assigned qualifiers are detailed in the Analytical Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (page 10).

Overall Data Assessment

Field and laboratory precision, field and laboratory accuracy, method compliance, and data set completeness are determined to be acceptable based on the data reported. No data are missing or rejected, therefore the completeness of the data set was calculated to be 100% and is acceptable. All reported data are suitable for their intended use as reported with the clarifications and qualifications noted.

**Table of Samples Validated
Basin Electric – Laramie, Wyoming
June 2021 Sampling
Eurofins TestAmerica Laboratories**

Matrix	Sample ID	Lab SDG	Lab ID	Sample Type
WG	MW-32B	280-149466-1/-2	280-149466-1	N
WG	MW-39B		280-149466-2	N
WG	MW-42B		280-149466-3	N
WG	MW-43B		280-149466-4	N
WG	MW-47B		280-149466-5	N
WG	MW-46B		280-149466-6	N
WG	MW-45B		280-149466-7	N
WQ	MW-44B		280-149466-8	N
WG	MW-37B		280-149466-9	N
WG	MW-37B-FD		280-149466-10	FD
WG	MW-36B		280-149466-11	N
WG	MW-41B		280-149466-12	N
WG	MW-20B		280-149466-13	N
WG	MW-14BR		280-149466-14	N
WG	MW-40B		280-149466-15	N
WQ	FB		280-149466-16	FB
WG	MW-53B		280-149466-17	N
WG	MW-52B		280-149466-18	N
WG	MWW-49B		280-149466-19	N
WG	MW-21B		280-149466-20	N
WG	MW-38C		280-149466-21	N
WG	MW-38B	280-149466-11	N	

FB = Field Blank

FD = Field Duplicate Sample

ID = Identifier

N = Normal Investigative Sample

SDG = Sample Delivery Group

WG = Ground Water

WQ = Water Quality Sample

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

Project Name: Basin Electric Laramie River Station, Wyoming	Laboratory: Eurofins TestAmerica Denver, Colorado Eurofins TestAmerica Canton (6020A Metals) Eurofins TestAmerica Saint Louis, Missouri (radiochemistry)
Project Reference: Sampling – June 2021	Sample Matrix: Groundwater
AECOM Project: 6063274.Task 1.0	Sample Start Date: 6/2/2021
Validator/Date Validated: Katie Abbott/ August 11, 2021	Sample End Date: 6/4/2021
Secondary Review by: Steve Szocik	Secondary Review Date: August 20, 2021
Samples Analyzed: See Table of Samples Validated (page 3).	
Parameters Validated: Total Metals by SW-846 Method 6010C Total Metals by SW-846 Method 6020A Total Mercury by SW-846 Method 7470A Anions (Chloride, Fluoride, and Sulfate) by SW-846 Method 9056A TDS by SM2540C Radium-226 by SW-846 Method 9315 Radium-228 by SW-846 Method 9320 Combined Radium-226 and Radium-228	
Laboratory Project IDs/Sample Delivery Groups (SDGs): 280-149466-1 and 280-146466-2	

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT						
Precision:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Precision is the measure of variability of individual sample measurements. Field precision was evaluated by reviewing the field duplicate results, and laboratory precision was evaluated by reviewing method duplicate sample results, laboratory control sample (LCS) to laboratory control sample duplicate (LCSD) results, and matrix spike (MS) to matrix spike duplicate (MSD) results.</p> <p>The following criteria was used to evaluate the field duplicate results:</p> <ul style="list-style-type: none"> • For results where both reported values were greater than five times the reporting limit (RL), the relative percent difference between the samples and its field duplicate were compared against a criterion of 30%. • For results where either value reported was less than five times the RL, the absolute difference between the results was compared to a criterion of agreement within ± 2 times the RL. <p>Laboratory criteria was used to evaluate laboratory precision.</p> <p>Field and laboratory precision is acceptable because no data are rejected. Precision measurements are reviewed in items 17 and 21.</p>						
Accuracy:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Field accuracy, a measure of the sampling bias, can be determined by reviewing field and equipment blank results for evidence of sample contamination stemming from sampling activities and/or field conditions. Laboratory accuracy is a measure of the system bias, and was measured by evaluating LCS, MS, and MSD percent recoveries (%Rs). LCS %Rs demonstrated the overall performance of the analysis. MS, MSD %Rs provided information on sample matrix interferences. Accuracy measurements were evaluated using laboratory control limits. Overall field and laboratory accuracy is acceptable because the majority of the results are unqualified based on accuracy and no data are rejected. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.</p>						
Method Compliance:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, and laboratory blanks against method specified requirements. Overall method compliance is acceptable because the majority of the results were unqualified based on the method compliance parameters reviewed. Method compliance measurements are also reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.</p>						
Completeness:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of chain of custody records, laboratory analytical methods and reporting limits, laboratory case narratives, and project requirements. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). Any EDD modifications were made as documented in item 23.</p> <p>Because no results were missing or rejected, completeness of the data set was calculated to be 100% and is acceptable.</p>						

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

VALIDATION CRITERIA CHECK						
<p>Data validation qualifiers potentially assigned during this review:</p> <p>J- estimated concentration, low bias indicated</p> <p>J estimated concentration</p> <p>UJ estimated non-detect</p> <p>The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary.</p>						
1. Did the laboratory identify any non-conformances related to the analytical results?		Yes	X	No	KA	Initials
<p>Comments: Data qualification, if any, related to the narrative comments and/or assigned laboratory flags contained in the analytical reports are discussed in the following sections.</p> <p>Data Packages 280-149466-1 and 280-149466-2</p> <p>The laboratory noted that several bottles had the sample ID smeared. As the bottles were able to be correctly identified based on the collection times, further action was not considered necessary.</p> <p>In addition, the laboratory noted that sample MW-45B was identified as MW-45 on the 1L bottle submitted. As the laboratory logged the sample per the COC, further action was not considered necessary.</p>						
2. Were sample Chain-of-Custody forms complete?		Yes	X	No	KA	Initials
<p>Comments: With the exception below, no issues were observed, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.</p> <p>Data Package 280-149466-1</p> <p>Radium-228 and combined radium-226 and radium-228 were inadvertently omitted from the COC. The laboratory was instructed to analyze for those methods, however, insufficient volume was available. The laboratory preserved additional unpreserved volume submitted for the analysis, however, this was performed greater than 5 days after collection; therefore, the associated radium-228 and combined radium-226/radium-228 results were qualified as estimated (UJ/J pr).</p> <p>Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 10).</p>						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	X	Yes		No	KA	Initials
Comments: All requested analyses were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	X	Yes		No	KA	Initials
Comments: All samples were received intact and within the recommended <6°C temperature for the applicable methods.						
5. Were the reported analytical methods in compliance with WP/QAPP, permit, or COC?	X	Yes		No	KA	Initials
Comments: The reported target analytes and methods are in compliance with parameters and methods listed on the COC.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?		Yes	X	No	KA	Initials
<p>Comments: No results were reported as non-detect at elevating reporting limits with the following exceptions.</p> <p>Data Package 280-149466-2</p> <p>The fluoride result on sample MW-40B was reported as non-detect at an elevated reporting limit. The associated result should be evaluated by the end user of the data with respect to project objectives.</p>						

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

VALIDATION CRITERIA CHECK						
<p>Data Package 280-149466-1</p> <p>The laboratory noted that a reduced volume was used for sample MW-52B for the radiochemistry analyses. The associated minimum detectable concentrations should be evaluated by the end user of the data with respect to project objectives.</p>						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	X	Yes		No	KA	Initials
Comments: Only the requested target analytes were reported.						
8. Were sample holding times met?	X	Yes		No	KA	Initials
Comments: Sample preparation and analytical holding times were within the method requirements.						
9. Were correct concentration units reported?	X	Yes		No	KA	Initials
Comments: Metals and general chemistry data were reported as mg/L (ppm) and radiochemistry data was reported in picocuries per liter (pCi/L).						
10. Were the reporting requirements for flagged data met?	X	Yes		No	KA	Initials
Comments: Laboratory flags were reviewed and considered during the data validation procedure. Data validation qualifiers override assigned laboratory flags.						
11. Were laboratory blank samples free of target analyte contamination?		Yes	X	No	KA	Initials
<p>Comments: With the exception below, the laboratory blanks were free of target analyte contamination. Calcium was detected in the method blank at a concentration of 0.4424 mg/L. As the associated results were reported as non-detect or at concentrations >10x the concentration of the blank contamination, further action was not considered necessary.</p>						
12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?		Yes	X	No	KA	Initials
<p>Comments: One field blank was collected. The field blank was free of target analyte contamination, with the following exceptions.</p> <p>Data Package 280-149446-1</p> <p>Radium-228 (0.548 pCi/L) and combined radium-226/radium-228 (0.559 pCi/L) were detected in the field blank. The associated results reported within 10x the field blank contamination were qualified as estimated (J bf).</p> <p>Data Package 280-149446-2</p> <p>TDS was detected in the field blank at a concentration of 21 mg/L. As the associated results were reported as non-detect, further action was not considered necessary.</p> <p>Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 10).</p>						
13. Were instrument calibrations within method or data validation control limits?		Yes	X	No	KA	Initials
<p>Comments: Not typically evaluated for this level of data validation.</p> <p>Data Package 280-149466-1</p> <p>The laboratory noted that sample MW-53B was analyzed on a detector that did not have the daily continuing calibration verification (CCV) performed for radium-228. A CCV was analyzed the days prior and following with passing recoveries. As the method criteria was not met, the radium-228 result for sample MW-53B was qualified</p>						

ANALYTICAL LIMITED DATA VALIDATION CHECKLIST

VALIDATION CRITERIA CHECK						
Duplicate Sample No.	MW-37B-FD	Primary Sample No.	MW-37B			
Comments: The duplicate sample pair met the acceptance criteria.						
22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	KA	Initials
Comments: Not applicable for this level of limited data validation or for the methods reported.						
23. Were 10% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	KA	Initials
Comments: During the validation procedure, 10% of the positive sample concentrations and 100% of the RLs for project samples were compared to hardcopy laboratory reports. The data validator made sure that RLs were entered into the correct EDD fields.						
24. General Comments: Data were also evaluated using guidance set forth in the <i>United States Environmental Protection Agency (USEPA) contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review</i> , document number EPA-540-R-2017-001, January 2017; method requirements, and laboratory criteria. All data is considered usable.						

**Table of Qualified Analytical Results
Basin Electric – Laramie, Wyoming
June 2021 Sampling
Eurofins TestAmerica Laboratories**

Laboratory Group	Sample ID	Lab Sample ID	Analytical Method	Analyte	Flag	Reason Code
280-149466-1	MW-32B	280-149466-1	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-32B	280-149466-1	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-37B-FD	280-149466-10	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-37B-FD	280-149466-10	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-36B	280-149466-11	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-36B	280-149466-11	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-41B	280-149466-12	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-41B	280-149466-12	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-20B	280-149466-13	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-20B	280-149466-13	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-14BR	280-149466-14	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-14BR	280-149466-14	SW9320	Radium-228	UJ	pr
280-149466-1	MW-40B	280-149466-15	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-40B	280-149466-15	SW9320	Radium-228	J	pr,bf
280-149466-1	FB	280-149466-16	RA226RA228	Combined Radium 226 + 228	J	pr
280-149466-1	FB	280-149466-16	SW9320	Radium-228	J	pr
280-149466-1	MW-53B	280-149466-17	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-53B	280-149466-17	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-52B	280-149466-18	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-52B	280-149466-18	SW9320	Radium-228	UJ	pr
280-149466-1	MW-49B	280-149466-19	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-49B	280-149466-19	SW9320	Radium-228	UJ	pr
280-149466-1	MW-39B	280-149466-2	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-39B	280-149466-2	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-21B	280-149466-20	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-21B	280-149466-20	SW9320	Radium-228	UJ	pr
280-149466-1	MW-38C	280-149466-21	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-38C	280-149466-21	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-38B	280-149466-22	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-38B	280-149466-22	SW9320	Radium-228	UJ	pr
280-149466-1	MW-42B	280-149466-3	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-42B	280-149466-3	SW9320	Radium-228	UJ	pr
280-149466-1	MW-43B	280-149466-4	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-43B	280-149466-4	SW9320	Radium-228	UJ	pr

**Table of Qualified Analytical Results
Basin Electric – Laramie, Wyoming
June 2021 Sampling
Eurofins TestAmerica Laboratories**

Laboratory Group	Sample ID	Lab Sample ID	Analytical Method	Analyte	Flag	Reason Code
280-149466-1	MW-47B	280-149466-5	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-47B	280-149466-5	SW9320	Radium-228	UJ	pr
280-149466-1	MW-46B	280-149466-6	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-46B	280-149466-6	SW9320	Radium-228	UJ	pr
280-149466-1	MW-45B	280-149466-7	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-45B	280-149466-7	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-44B	280-149466-8	RA226RA228	Combined Radium 226 + 228	J	pr,bf
280-149466-1	MW-44B	280-149466-8	SW9320	Radium-228	J	pr,bf
280-149466-1	MW-37B	280-149466-9	RA226RA228	Combined Radium 226 + 228	UJ	pr
280-149466-1	MW-37B	280-149466-9	SW9320	Radium-228	UJ	pr
280-149466-2	MW-38B	280-149466-22	SW9056A	Fluoride	J-	m

Definitions:

bf – field blank contamination

ID – identifier

J- – estimated, low bias

m – matrix spike/matrix spike duplicate recovery failure

mg/L – Milligrams per Liter

pr – professional judgment

SDG – Sample Delivery Group

UJ/J – Estimated



Environment

Submitted to:
Basin Electric Laramie River Station

Submitted by:
AECOM
Denver, CO

January 24, 2021
Inorganic and Radiochemistry
Limited Data Validation Report

Basin Electric Laramie, Wyoming
Groundwater Sampling – October 2021
Analyzed by Eurofins TestAmerica Laboratories

Prepared By Katie Abbott
Data Reviewer/Chemist

Overview

The samples analyzed for the October 2021 sampling event are listed in the Table of Samples Validated (page 3). Limited data validation was performed on a total of nineteen groundwater samples, one field duplicate sample, and one field blank Quality Control (QC) sample.

Samples were submitted to Eurofins TestAmerica Laboratories of Denver, Colorado (TA-DEN).

The reviewed analyses were Select Total Metals by SW-846 Methods 6010C, 6020A, and 7470A, Chloride, Fluoride, and Sulfate by SW-846 Method 9056A, Total Dissolved Solids (TDS) by SM2540C, Radium-226 by SW-846 Method 9315, Radium-228 by SW-846 Method 9320, and combined Radium-226 and Radium-228 by calculation.

The Analytical Limited Data Validation Checklist is presented as pages 4-9. Data were evaluated using guidance set forth in the *United States Environmental Protection Agency (USEPA) contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review*, document number EPA-542-R-20-006, November 2020; method requirements, and laboratory criteria.

The following data components were reviewed during the data validation procedure:

Submitted Deliverables
Case Narratives (including any assigned laboratory flags)
Chain-of-Custody form(s) and sample integrity
Sample results, reporting limits, dilution factors
Holding times
Method (preparation) blank results
Field blank results
Laboratory control sample (LCS), laboratory control sample duplicate (LCSD) results
Matrix spike (MS), matrix spike duplicate (MSD) results
Laboratory duplicate (or spiked duplicate) results
Field duplicate (FD) results (calculated Relative Percent Differences [RPD])
Electronic data deliverables (EDDs) – EQUIS format

Data Validation Qualifiers Assigned During this Review

J+ estimated concentration, high bias indicated

Assigned qualifiers are detailed in the Analytical Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (page 10).

Overall Data Assessment

Field and laboratory precision, field and laboratory accuracy, method compliance, and data set completeness are determined to be acceptable based on the data reported. No data are missing or rejected, therefore the completeness of the data set was calculated to be 100% and is acceptable. All reported data are suitable for their intended use as reported with the clarifications and qualifications noted.

**Table of Samples Validated
Basin Electric – Laramie, Wyoming
October 2021 Sampling
Eurofins TestAmerica Laboratories**

Matrix	Sample ID	Lab SDG	Lab ID	Sample Type
WG	MW-14BR	280-153860-1/-2	280-153860-1	N
WG	MW-21B		280-153860-2	N
WG	DUP-01		280-153860-3	FD
WG	MW-20B		280-153860-4	N
WG	MW-32B		280-153860-5	N
WG	MW-36B		280-153860-6	N
WG	MW-37B		280-153860-7	N
WQ	MW-38B		280-153860-8	N
WG	MW-38C		280-153860-9	N
WG	MW-39B		280-153860-10	N
WG	MW-40B		280-153860-11	N
WG	MW-41B		280-153860-12	N
WG	MW-42B		280-153860-13	N
WG	MW-43B		280-153860-14	N
WG	MW-44B		280-153860-15	N
WG	MW-45B		280-153860-16	N
WG	MW-46B		280-153860-17	N
WG	MW-47B		280-153860-18	N
WG	MW-52B		280-153860-19	N
WG	MW-53B		280-153860-20	N
WQ	FIELD BLANK		280-153860-21	FB

FB = Field Blank

FD = Field Duplicate Sample

ID = Identifier

N = Normal Investigative Sample

SDG = Sample Delivery Group

WG = Ground Water

WQ = Water Quality Sample

Project Name: Basin Electric Laramie River Station, Wyoming	Laboratory: Eurofins TestAmerica Denver, Colorado (6010C Metals, 7470A Mercury, 9056A Anions, and TDS) Eurofins TestAmerica Canton (6020A Metals) Eurofins TestAmerica Saint Louis, Missouri (Radiochemistry)
Project Reference: Sampling – October 2021	Sample Matrix: Groundwater
AECOM Project: 6063274.Task 1.0	Sample Start Date: 10/5/2021
Validator/Date Validated: Katie Abbott/ January 24, 2022	Sample End Date: 10/7/2021
Secondary Review by: Brian Rothmeyer	Secondary Review Date: January 24, 2022
Samples Analyzed: See Table of Samples Validated (page 3).	
Parameters Validated: Total Metals by SW-846 Method 6010C Total Metals by SW-846 Method 6020A Total Mercury by SW-846 Method 7470A Anions (Chloride, Fluoride, and Sulfate) by SW-846 Method 9056A TDS by SM2540C Radium-226 by SW-846 Method 9315 Radium-228 by SW-846 Method 9320 Combined Radium-226 and Radium-228	
Laboratory Project IDs/Sample Delivery Groups (SDGs): 280-153860-1 and 280-153860-2	

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT						
Precision:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Precision is the measure of variability of individual sample measurements. Field precision was evaluated by reviewing the field duplicate results, and laboratory precision was evaluated by reviewing method duplicate sample results, laboratory control sample (LCS) to laboratory control sample duplicate (LCSD) results, and matrix spike (MS) to matrix spike duplicate (MSD) results.</p> <p>The following criteria was used to evaluate the field duplicate results:</p> <ul style="list-style-type: none"> For results where both reported values were greater than five times the reporting limit (RL), the relative percent difference between the samples and its field duplicate were compared against a criterion of 30%. For results where either value reported was less than five times the RL, the absolute difference between the results was compared to a criterion of agreement within ± 2 times the RL. <p>Laboratory criteria was used to evaluate laboratory precision.</p> <p>Field and laboratory precision is acceptable because no data are rejected. Precision measurements are reviewed in items 17 and 21.</p>						
Accuracy:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Field accuracy, a measure of the sampling bias, can be determined by reviewing field and equipment blank results for evidence of sample contamination stemming from sampling activities and/or field conditions. Laboratory accuracy is a measure of the system bias, and was measured by evaluating LCS, MS, and MSD percent recoveries (%Rs). LCS %Rs demonstrated the overall performance of the analysis. MS, MSD %Rs provided information on sample matrix interferences. Accuracy measurements were evaluated using laboratory control limits. Overall field and laboratory accuracy is acceptable because the majority of the results are unqualified based on accuracy and no data are rejected. Accuracy measurements are reviewed in items 12, 14, 15, 16, and 20.</p>						
Method Compliance:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: For this data set, method compliance was determined by evaluating sample integrity, holding time, reporting limits, and laboratory blanks against method specified requirements. Overall method compliance is acceptable because the results were unqualified based on the method compliance parameters reviewed. Method compliance measurements are also reviewed in items 4, 6, 8, 11, 13, 18, 19, 20, and 22.</p>						
Completeness:	X	Acceptable		Unacceptable	KA	Initials
<p>Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of chain of custody records, laboratory analytical methods and reporting limits, laboratory case narratives, and project requirements. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). Any EDD modifications were made as documented in item 23.</p> <p>Because no results were missing or rejected, completeness of the data set was calculated to be 100% and is acceptable.</p>						

VALIDATION CRITERIA CHECK						
Data validation qualifiers potentially assigned during this review: J+ estimated concentration, high bias indicated The following comments identifying sample results requiring qualification are in bold type. The other comments are of interest, but qualification of the sample results is not necessary.						
1. Did the laboratory identify any non-conformances related to the analytical results?	X	Yes		No	KA	Initials
Comments: Data qualification, if any, related to the narrative comments and/or assigned laboratory flags contained in the analytical reports are discussed in the following sections.						
2. Were sample Chain-of-Custody forms complete?		Yes	X	No	KA	Initials
Comments: With the exception below, no issues were observed, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt. Data Packages 280-153860-1 and 280-153860-2 The laboratory noted that the sample collection time listed on the sample container labels did not match the chain of custody (COC) for sample MW-47B. As the laboratory logged the collection time per the COC, further action was not considered necessary.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	X	Yes		No	KA	Initials
Comments: All requested analyses were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	X	Yes		No	KA	Initials
Comments: All samples were received intact and within the recommended <6°C temperature for the applicable methods.						
5. Were the reported analytical methods in compliance with WP/QAPP, permit, or COC?	X	Yes		No	KA	Initials
Comments: The reported target analytes and methods are in compliance with parameters and methods listed on the COC.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?		Yes	X	No	KA	Initials
Comments: No results were reported as non-detect at elevating reporting limits with the following exceptions. Data Package 280-153860-1 The laboratory noted that a reduced volume was used for sample MW-39B for the radiochemistry analyses. As the radium-226 result for sample MW-39B was reported as detected at an elevated minimum detectable concentration (MDC), no further action is required. However, radium-228 result for sample MW-39B was reported as non-detect at an elevated MDC and should be evaluated by the end user of the data with respect to project objectives.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	X	Yes		No	KA	Initials
Comments: Only the requested target analytes were reported.						
8. Were sample holding times met?	X	Yes		No	KA	Initials
Comments: Sample preparation and analytical holding times were within the method requirements.						
9. Were correct concentration units reported?	X	Yes		No	KA	Initials
Comments: Metals and general chemistry data were reported as mg/L (ppm) and radiochemistry data was						

VALIDATION CRITERIA CHECK						
reported in picocuries per liter (pCi/L).						
10. Were the reporting requirements for flagged data met?	X	Yes		No	KA	Initials
Comments: Laboratory flags were reviewed and considered during the data validation procedure. Data validation qualifiers override assigned laboratory flags.						
11. Were laboratory blank samples free of target analyte contamination?		Yes	X	No	KA	Initials
Comments: With the following exceptions, the laboratory blanks were free of target analyte contamination.						
Associated Samples	Analyte	Concentration (pCi/L)	Qualification			
MB 160-531296/23A MW-14BR MW-21B DUP-01 MW-20B MW-32B MW-36B MW-37B MW-38B MW-38C MW-39B MW-40B MW-41B	Radium-226	0.3569	The associated results reported at concentrations <5x the concentration of the blank contamination were qualified estimated (J+ bl).			
MB 160-531366/23-A MB-39B		0.4596	None. The associated results were reported below the MDC.			
MB 160-531213/24-A MW-42B MW-43B MW-44B MW-45B MW-46B MW-47B MW-52B MW-53B FIELD BLANK	Radium-228	0.4763				
MB 160-531305/23-A MW-14BR MW-21B DUP-01 MW-20B MW-32B MW-36B MW-37B MW-38B MW-38C MW-40B MW-41B		0.5811	The associated results reported at concentrations <5x the concentration of the blank contamination were qualified estimated (J+ bl).			
MB 160-531421/23-A MW-39B		0.4014	None. The associated result was reported below the MDC.			
< - Less Than bl - Laboratory blank contamination J+ - Estimated, high bias MB - Method Blank pCi/L - Picocuries per Liter						
Refer to the Table of Qualified Analytical Results for a listing of the samples, analytes, and concentrations qualified (page 10).						
12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?		Yes	X	No	KA	Initials

VALIDATION CRITERIA CHECK						
Comments: Not evaluated for this level of data validation.						
21. Were field duplicates collected? If so, discuss the precision (RPD) of the results.	X	Yes		No	KA	Initials
Duplicate Sample No.	DUP-01	Primary Sample No.	MW-21B			
Comments: The duplicate sample pair met the acceptance criteria.						
22. Were qualitative criteria for organic target analyte identification met?	NA	Yes	NA	No	KA	Initials
Comments: Not applicable for this level of limited data validation or for the methods reported.						
23. Were 10% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	KA	Initials
Comments: During the validation procedure, 10% of the positive sample concentrations and 100% of the RLs for project samples were compared to hardcopy laboratory reports. The data validator made sure that RLs were entered into the correct EDD fields.						
24. General Comments: Data were also evaluated using guidance set forth in the <i>United States Environmental Protection Agency (USEPA) contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review</i> , document number EPA-542-R-20-006, November 2020; method requirements, and laboratory criteria. All data is considered usable.						

**Table of Qualified Analytical Results
Basin Electric – Laramie, Wyoming
October 2021 Sampling
Eurofins TestAmerica Laboratories**

Laboratory Group	Sample ID	Lab Sample ID	Analytical Method	Analyte	Flag	Reason Code
280-153860-1	MW-14BR	280-153860-1	SW9320	Radium-228	J+	bl
280-153860-1	MW-21B	280-153860-2	SW9320	Radium-228	J+	bl
280-153860-1	DUP-01	280-153860-3	SW9320	Radium-228	J+	bl
280-153860-1	MW-20B	280-153860-4	SW9320	Radium-228	J+	bl
280-153860-1	MW-32B	280-153860-5	SW9320	Radium-228	J+	bl
280-153860-1	MW-36B	280-153860-6	SW9320	Radium-228	J+	bl
280-153860-1	MW-37B	280-153860-7	SW9320	Radium-228	J+	bl
280-153860-1	MW-38B	280-153860-8	SW9315	Radium-226	J+	bl
280-153860-1	MW-38B	280-153860-8	SW9320	Radium-228	J+	bl
280-153860-1	MW-38C	280-153860-9	SW9320	Radium-228	J+	bl
280-153860-1	MW-39B	280-153860-10	SW9315	Radium-226	J+	bl
280-153860-1	MW-40B	280-153860-11	SW9315	Radium-226	J+	bl
280-153860-1	MW-40B	280-153860-11	SW9320	Radium-228	J+	bl
280-153860-1	MW-41B	280-153860-12	SW9320	Radium-228	J+	bl
280-153860-2	MW-42B	280-153860-13	SW9056A	Sulfate	J+	m

Definitions:

bl – Laboratory blank contamination

ID – identifier

J+ – estimated, high bias

m – matrix spike/matrix spike duplicate recovery failure

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-149466-1
Client Project/Site: CCR - Basin Electric 2021

For:

AECOM Technical Services Inc.
6200 S. Quebec Street
Greenwood Village, Colorado 80111

Attn: Ms. Katie Abbott



Authorized for release by:
8/2/2021 4:16:29 PM

Patrick McEntee, Client Service Manager
(303)736-0107
Patrick.McEntee@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Job ID: 280-149466-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: CCR - Basin Electric 2021

Report Number: 280-149466-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/5/2021 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.4° C, 2.7° C, 3.0° C, 3.2° C and 3.8° C.

Receipt Exceptions

Unable to read ID and date on 1 of 2 500ml preserved container. Matched with sample time per COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 280-149466-7. Sample ID on 1L unpreserved container reads MW-45. COC reads MW-45B. Time and date matches. Logged per COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 280-149466-16. Unable to read date on 250mL unpreserved and 1 of 2 500mL preserved containers. ID and sample time matches with COC. Logged per COC.

Unable to read ID on 1L unpreserved container. Sample time and date matches with MW-53B on COC. Logged per COC.

Methods 9320 Radium 228 and Combined were requested by the client on July 8, 2021. The client was informed that there was insufficient nitric preserved volume to perform the additional analysis; therefore the client gave the laboratory permission to preserve unpreserved volume for the analysis. It should be noted that "It is recommended that samples be preserved at the time of collection by adding enough 1 N HNO₃ to the sample to bring it to pH 2 (15 mL 1 N HNO₃ per liter of sample is usually sufficient). If samples are to be collected without preservation, they should be brought to the laboratory within 5 days, then preserved, and held in the original container for a minimum of 16 hr before analysis or transfer of the sample."

RADIUM-226 (GFPC)

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for Radium-226 (GFPC) in accordance with SW 846 9315. The samples were prepared on 06/09/2021 and analyzed on 07/13/2021.

Ra-226 Batch 160-513477:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: 280-149466-17,

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Job ID: 280-149466-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

280-149466-19, 280-149466-20, 280-149466-21 and 280-149466-22. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Ra-226 Batch 160-513477:

The following samples were prepared at a reduced aliquot due to Matrix: 280-149466-18. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Radium-226 prep batch 160-513477: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-149466-17, 280-149466-18, 280-149466-19, 280-149466-20, 280-149466-21, 280-149466-22, LCS 160-513477/1-A, LCSD 160-513477/2-A and MB 160-513477/23-A

Radium-226 prep batch 160-513437: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-149466-1, 280-149466-2, 280-149466-3, 280-149466-4, 280-149466-5, 280-149466-6, 280-149466-7, 280-149466-8, 280-149466-9, 280-149466-10, 280-149466-11, 280-149466-11[MS], 280-149466-11[MSD], 280-149466-12, 280-149466-13, 280-149466-14, 280-149466-15, 280-149466-16, LCS 160-513437/1-A, LCSD 160-513437/2-A and MB 160-513437/25-A

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

RADIUM-228

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for Radium-228 in accordance with 9320. The samples were prepared on 07/20/2021 and 07/22/2021 and analyzed on 07/28/2021 and 07/30/2021.

Radium 228 Prep Batch 160-519474:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interferences. The data have been reported with this narrative. 280-149466-18

Radium 228 Prep Batch 160-519474:

The sample was inadvertently run on a detector that did not have the daily check (CCV) performed the day the sample was run. However the daily check was performed the day before and the day after the sample was run and passed its QC criteria indicating instrument stability. Additionally the sample achieved its detection goal and had passing carrier recovery. The lab does not believe this discrepancy negatively affects the sample data.

280-149466-17

Radium 228 Prep Batch 160-519474

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-149466-1, 280-149466-2, 280-149466-3, 280-149466-4, 280-149466-5, 280-149466-6, 280-149466-7, 280-149466-8, 280-149466-9, 280-149466-10, 280-149466-11, 280-149466-11[MS], 280-149466-11[MSD], 280-149466-12, 280-149466-13, 280-149466-14, 280-149466-15, 280-149466-16, 280-149466-17, 280-149466-18, LCS 160-519474/1-A and MB 160-519474/23-A

Radium-228 Batch 519744

The MB counted on a detector that failed high for beta Background for 7/30, however the MB result is not higher than the RL and thus was not affected by the high bias found in the Background. The results have been reported with this narrative. MB 160-519744/23-A

Radium-228 Batch 519744:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Job ID: 280-149466-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

applied as the Activity Reference Date. 280-149466-19, 280-149466-20, 280-149466-21, 280-149466-22, LCS 160-519744/1-A, MB 160-519744/23-A, 160-42785-D-1-B and 160-42785-C-1-A DU

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

RADIUM-226/RADIUM-228 (GFPC)

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for Radium-226/Radium-228 (GFPC) in accordance with 9315/9320. The samples were analyzed on 08/02/2021.

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



Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-32B	Lab Sample ID: 280-149466-1
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-39B	Lab Sample ID: 280-149466-2
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-42B	Lab Sample ID: 280-149466-3
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-43B	Lab Sample ID: 280-149466-4
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-47B	Lab Sample ID: 280-149466-5
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-46B	Lab Sample ID: 280-149466-6
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-45B	Lab Sample ID: 280-149466-7
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-44B	Lab Sample ID: 280-149466-8
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-37B	Lab Sample ID: 280-149466-9
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-37B-FD	Lab Sample ID: 280-149466-10
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-36B	Lab Sample ID: 280-149466-11
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-41B	Lab Sample ID: 280-149466-12
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-20B	Lab Sample ID: 280-149466-13
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-14BR	Lab Sample ID: 280-149466-14
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-40B	Lab Sample ID: 280-149466-15
<input type="checkbox"/> No Detections.	
Client Sample ID: FB	Lab Sample ID: 280-149466-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-53B

Lab Sample ID: 280-149466-17

No Detections.

Client Sample ID: MW-52B

Lab Sample ID: 280-149466-18

No Detections.

Client Sample ID: MW-49B

Lab Sample ID: 280-149466-19

No Detections.

Client Sample ID: MW-21B

Lab Sample ID: 280-149466-20

No Detections.

Client Sample ID: MW-38C

Lab Sample ID: 280-149466-21

No Detections.

Client Sample ID: MW-38B

Lab Sample ID: 280-149466-22

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver



Method Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-149466-1	MW-32B	Water	06/02/21 14:13	06/05/21 08:05
280-149466-2	MW-39B	Water	06/02/21 15:40	06/05/21 08:05
280-149466-3	MW-42B	Water	06/03/21 11:45	06/05/21 08:05
280-149466-4	MW-43B	Water	06/03/21 12:18	06/05/21 08:05
280-149466-5	MW-47B	Water	06/03/21 13:16	06/05/21 08:05
280-149466-6	MW-46B	Water	06/03/21 14:09	06/05/21 08:05
280-149466-7	MW-45B	Water	06/03/21 15:03	06/05/21 08:05
280-149466-8	MW-44B	Water	06/03/21 15:37	06/05/21 08:05
280-149466-9	MW-37B	Water	06/03/21 16:17	06/05/21 08:05
280-149466-10	MW-37B-FD	Water	06/03/21 16:17	06/05/21 08:05
280-149466-11	MW-36B	Water	06/03/21 16:58	06/05/21 08:05
280-149466-11 MS	MW-36B	Water	06/03/21 16:58	06/05/21 08:05
280-149466-11 MSD	MW-36B	Water	06/03/21 16:58	06/05/21 08:05
280-149466-12	MW-41B	Water	06/03/21 17:52	06/05/21 08:05
280-149466-13	MW-20B	Water	06/03/21 18:23	06/05/21 08:05
280-149466-14	MW-14BR	Water	06/03/21 19:00	06/05/21 08:05
280-149466-15	MW-40B	Water	06/04/21 09:14	06/05/21 08:05
280-149466-16	FB	Water	06/04/21 09:45	06/05/21 08:05
280-149466-17	MW-53B	Water	06/04/21 10:18	06/05/21 08:05
280-149466-18	MW-52B	Water	06/04/21 12:18	06/05/21 08:05
280-149466-19	MW-49B	Water	06/04/21 13:59	06/05/21 08:05
280-149466-20	MW-21B	Water	06/04/21 15:00	06/05/21 08:05
280-149466-21	MW-38C	Water	06/04/21 15:28	06/05/21 08:05
280-149466-22	MW-38B	Water	06/04/21 16:21	06/05/21 08:05

- 1
- 2
- 3
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- 5
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- 14
- 15

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0662	U	0.0605	0.0608	1.00	0.0934	pCi/L	06/09/21 10:34	07/13/21 11:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/09/21 10:34	07/13/21 11:03	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00882	U	0.0495	0.0495	1.00	0.102	pCi/L	06/09/21 10:34	07/13/21 11:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/09/21 10:34	07/13/21 11:03	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123		0.0703	0.0711	1.00	0.0929	pCi/L	06/09/21 10:34	07/13/21 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/09/21 10:34	07/13/21 11:45	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0617	U	0.0655	0.0658	1.00	0.105	pCi/L	06/09/21 10:34	07/13/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					06/09/21 10:34	07/13/21 12:51	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0599	U	0.0684	0.0686	1.00	0.111	pCi/L	06/09/21 10:34	07/13/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					06/09/21 10:34	07/13/21 12:51	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0323	U	0.0646	0.0646	1.00	0.113	pCi/L	06/09/21 10:34	07/13/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/09/21 10:34	07/13/21 12:51	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0413	U	0.0590	0.0591	1.00	0.100	pCi/L	06/09/21 10:34	07/13/21 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					06/09/21 10:34	07/13/21 12:50	1

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0147	U	0.0486	0.0486	1.00	0.0911	pCi/L	06/09/21 10:34	07/13/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/09/21 10:34	07/13/21 12:51	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0500	U	0.0594	0.0595	1.00	0.0974	pCi/L	06/09/21 10:34	07/13/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/09/21 10:34	07/13/21 12:53	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0427	U	0.0609	0.0610	1.00	0.103	pCi/L	06/09/21 10:34	07/13/21 12:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					06/09/21 10:34	07/13/21 12:52	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0947	U	0.0682	0.0687	1.00	0.0976	pCi/L	06/09/21 10:34	07/13/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					06/09/21 10:34	07/13/21 12:53	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0626	U	0.0619	0.0622	1.00	0.0975	pCi/L	06/09/21 10:34	07/13/21 13:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					06/09/21 10:34	07/13/21 13:26	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0161	U	0.0511	0.0511	1.00	0.0955	pCi/L	06/09/21 10:34	07/13/21 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					06/09/21 10:34	07/13/21 13:52	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0783	U	0.0670	0.0674	1.00	0.102	pCi/L	06/09/21 10:34	07/13/21 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		40 - 110					06/09/21 10:34	07/13/21 14:53	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0670	U	0.0703	0.0705	1.00	0.113	pCi/L	06/09/21 10:34	07/13/21 14:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					06/09/21 10:34	07/13/21 14:53	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0110	U	0.0542	0.0542	1.00	0.104	pCi/L	06/09/21 10:34	07/13/21 20:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					06/09/21 10:34	07/13/21 20:01	1

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0803	U	0.0700	0.0704	1.00	0.107	pCi/L	06/09/21 14:05	07/13/21 09:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					06/09/21 14:05	07/13/21 09:14	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.443		0.272	0.275	1.00	0.371	pCi/L	06/09/21 14:05	07/13/21 09:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	45.8		40 - 110					06/09/21 14:05	07/13/21 09:15	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0221	U	0.0602	0.0602	1.00	0.110	pCi/L	06/09/21 14:05	07/13/21 09:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					06/09/21 14:05	07/13/21 09:15	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0173	U	0.0550	0.0550	1.00	0.103	pCi/L	06/09/21 14:05	07/13/21 10:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					06/09/21 14:05	07/13/21 10:00	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0243	U	0.0592	0.0592	1.00	0.109	pCi/L	06/09/21 14:05	07/13/21 10:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					06/09/21 14:05	07/13/21 10:00	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0301	U	0.0594	0.0594	1.00	0.106	pCi/L	06/09/21 14:05	07/13/21 10:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					06/09/21 14:05	07/13/21 10:00	1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.624		0.274	0.280	1.00	0.392	pCi/L	07/20/21 16:21	07/28/21 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					07/20/21 16:21	07/28/21 13:30	1
Y Carrier	88.7		40 - 110					07/20/21 16:21	07/28/21 13:30	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.734		0.279	0.287	1.00	0.382	pCi/L	07/20/21 16:21	07/28/21 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/20/21 16:21	07/28/21 13:30	1
Y Carrier	91.1		40 - 110					07/20/21 16:21	07/28/21 13:30	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0912	U	0.228	0.228	1.00	0.393	pCi/L	07/20/21 16:21	07/28/21 13:30	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110	07/20/21 16:21	07/28/21 13:30	1
Y Carrier	91.1		40 - 110	07/20/21 16:21	07/28/21 13:30	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0512	U	0.330	0.330	1.00	0.582	pCi/L	07/20/21 16:21	07/28/21 13:32	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	64.4		40 - 110	07/20/21 16:21	07/28/21 13:32	1
Y Carrier	88.1		40 - 110	07/20/21 16:21	07/28/21 13:32	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.295	U	0.238	0.240	1.00	0.377	pCi/L	07/20/21 16:21	07/28/21 13:32	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110	07/20/21 16:21	07/28/21 13:32	1
Y Carrier	89.3		40 - 110	07/20/21 16:21	07/28/21 13:32	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.230	U	0.284	0.284	1.00	0.470	pCi/L	07/20/21 16:21	07/28/21 13:32	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110	07/20/21 16:21	07/28/21 13:32	1
Y Carrier	89.6		40 - 110	07/20/21 16:21	07/28/21 13:32	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.745		0.330	0.337	1.00	0.477	pCi/L	07/20/21 16:21	07/28/21 13:32	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		40 - 110	07/20/21 16:21	07/28/21 13:32	1
Y Carrier	90.2		40 - 110	07/20/21 16:21	07/28/21 13:32	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.720		0.267	0.275	1.00	0.355	pCi/L	07/20/21 16:21	07/28/21 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					07/20/21 16:21	07/28/21 13:32	1
Y Carrier	89.0		40 - 110					07/20/21 16:21	07/28/21 13:32	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.360	0.362	1.00	0.591	pCi/L	07/20/21 16:21	07/28/21 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.6		40 - 110					07/20/21 16:21	07/28/21 13:32	1
Y Carrier	90.2		40 - 110					07/20/21 16:21	07/28/21 13:32	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.740		0.335	0.341	1.00	0.476	pCi/L	07/20/21 16:21	07/28/21 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.7		40 - 110					07/20/21 16:21	07/28/21 13:33	1
Y Carrier	89.0		40 - 110					07/20/21 16:21	07/28/21 13:33	1

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.657		0.282	0.289	1.00	0.399	pCi/L	07/20/21 16:21	07/28/21 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		40 - 110					07/20/21 16:21	07/28/21 13:33	1
Y Carrier	89.9		40 - 110					07/20/21 16:21	07/28/21 13:33	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.467		0.300	0.303	1.00	0.466	pCi/L	07/20/21 16:21	07/28/21 13:34	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110	07/20/21 16:21	07/28/21 13:34	1
Y Carrier	88.7		40 - 110	07/20/21 16:21	07/28/21 13:34	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.713		0.308	0.315	1.00	0.442	pCi/L	07/20/21 16:21	07/28/21 13:34	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110	07/20/21 16:21	07/28/21 13:34	1
Y Carrier	92.9		40 - 110	07/20/21 16:21	07/28/21 13:34	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.323	0.326	1.00	0.507	pCi/L	07/20/21 16:21	07/28/21 13:36	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110	07/20/21 16:21	07/28/21 13:36	1
Y Carrier	90.5		40 - 110	07/20/21 16:21	07/28/21 13:36	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.997		0.312	0.325	1.00	0.412	pCi/L	07/20/21 16:21	07/28/21 13:36	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110	07/20/21 16:21	07/28/21 13:36	1
Y Carrier	90.5		40 - 110	07/20/21 16:21	07/28/21 13:36	1

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.548		0.292	0.296	1.00	0.433	pCi/L	07/20/21 16:21	07/28/21 13:36	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110	07/20/21 16:21	07/28/21 13:36	1
Y Carrier	92.0		40 - 110	07/20/21 16:21	07/28/21 13:36	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.686		0.301	0.307	1.00	0.436	pCi/L	07/20/21 16:21	07/28/21 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/20/21 16:21	07/28/21 13:36	1
Y Carrier	93.8		40 - 110					07/20/21 16:21	07/28/21 13:36	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.500	U G	0.618	0.620	1.00	1.02	pCi/L	07/20/21 16:21	07/28/21 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	47.9		40 - 110					07/20/21 16:21	07/28/21 13:37	1
Y Carrier	94.3		40 - 110					07/20/21 16:21	07/28/21 13:37	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.385	U	0.272	0.274	1.00	0.427	pCi/L	07/22/21 11:55	07/30/21 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					07/22/21 11:55	07/30/21 11:54	1
Y Carrier	92.9		40 - 110					07/22/21 11:55	07/30/21 11:54	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.297	U	0.240	0.242	1.00	0.382	pCi/L	07/22/21 11:55	07/30/21 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					07/22/21 11:55	07/30/21 11:54	1
Y Carrier	91.4		40 - 110					07/22/21 11:55	07/30/21 11:54	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.614		0.255	0.261	1.00	0.353	pCi/L	07/22/21 11:55	07/30/21 11:54	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110	07/22/21 11:55	07/30/21 11:54	1
Y Carrier	92.3		40 - 110	07/22/21 11:55	07/30/21 11:54	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.259	U	0.205	0.207	1.00	0.322	pCi/L	07/22/21 11:55	07/30/21 11:54	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110	07/22/21 11:55	07/30/21 11:54	1
Y Carrier	91.7		40 - 110	07/22/21 11:55	07/30/21 11:54	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.690		0.281	0.287	5.00	0.392	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.725		0.283	0.291	5.00	0.382	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.214	U	0.239	0.239	5.00	0.393	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.113	U	0.336	0.336	5.00	0.582	pCi/L		08/02/21 16:32	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.355	U	0.248	0.250	5.00	0.377	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.262	U	0.291	0.291	5.00	0.470	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.787		0.335	0.342	5.00	0.477	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.734		0.271	0.279	5.00	0.355	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.378	U	0.365	0.367	5.00	0.591	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.783		0.340	0.346	5.00	0.476	pCi/L		08/02/21 16:32	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.752		0.290	0.297	5.00	0.399	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.530		0.306	0.309	5.00	0.466	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.729		0.312	0.319	5.00	0.442	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.509		0.330	0.333	5.00	0.507	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.320	0.333	5.00	0.412	pCi/L		08/02/21 16:32	1

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.559		0.297	0.301	5.00	0.433	pCi/L		08/02/21 16:32	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.767		0.309	0.315	5.00	0.436	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.943	U	0.675	0.678	5.00	1.02	pCi/L		08/02/21 16:32	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.407	U	0.279	0.281	5.00	0.427	pCi/L		08/02/21 16:30	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.314	U	0.246	0.248	5.00	0.382	pCi/L		08/02/21 16:30	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.638		0.262	0.268	5.00	0.353	pCi/L		08/02/21 16:30	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.289	U	0.213	0.215	5.00	0.322	pCi/L		08/02/21 16:30	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-513437/25-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513437

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.006214	U	0.0460	0.0460	1.00	0.0994	pCi/L	06/09/21 12:15	07/13/21 14:55	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	99.7		40 - 110			06/09/21 12:15	07/13/21 14:55	1		

Lab Sample ID: LCS 160-513437/1-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513437

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.015		0.932	1.00	0.115	pCi/L	79	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	98.4		40 - 110						

Lab Sample ID: LCSD 160-513437/2-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 513437

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	8.776		0.906	1.00	0.0956	pCi/L	77	75 - 125	0.13	1
Carrier	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	103		40 - 110								

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 518325

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 513437

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
						Uncert. (2σ+/-)					
Radium-226	0.0947	U	11.3	9.494		0.980	1.00	0.0989	pCi/L	83	75 - 138
Carrier	MS MS		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	94.1		40 - 110								

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 518325

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 513437

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
						Uncert. (2σ+/-)							
Radium-226	0.0947	U	11.3	9.648		0.995	1.00	0.106	pCi/L	84	75 - 138	0.08	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 518325

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 513437

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	96.3		40 - 110

Lab Sample ID: MB 160-513477/23-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 513477

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08695	U	0.0743	0.0747	1.00	0.113	pCi/L	06/09/21 14:05	07/13/21 10:00	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		40 - 110					06/09/21 14:05	07/13/21 10:00	1

Lab Sample ID: LCS 160-513477/1-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513477

Analyte	LCS		Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-226			11.3	9.364		0.966	1.00	0.0952	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits								
Ba Carrier	94.4		40 - 110								

Lab Sample ID: LCSD 160-513477/2-A
Matrix: Water
Analysis Batch: 518325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 513477

Analyte	LCSD		Spike	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qualifier	Added	Result	Qual	Uncert. (2σ+/-)							
Radium-226			11.3	8.695		0.905	1.00	0.101	pCi/L	77	75 - 125	0.36	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits										
Ba Carrier	99.4		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-519474/23-A
Matrix: Water
Analysis Batch: 520379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519474

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3106	U	0.249	0.251	1.00	0.395	pCi/L	07/20/21 16:21	07/28/21 13:37	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		40 - 110					07/20/21 16:21	07/28/21 13:37	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-519474/23-A
Matrix: Water
Analysis Batch: 520379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519474

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Y Carrier	94.9		40 - 110	07/20/21 16:21	07/28/21 13:37	1

Lab Sample ID: LCS 160-519474/1-A
Matrix: Water
Analysis Batch: 520440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519474

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.1		40 - 110
Y Carrier	89.9		40 - 110

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 520413

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 519474

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	MS MS		Limits
	%Yield	Qualifier	
Ba Carrier	89.0		40 - 110
Y Carrier	90.5		40 - 110

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 520413

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 519474

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	93.2		40 - 110
Y Carrier	89.6		40 - 110

Lab Sample ID: MB 160-519744/23-A
Matrix: Water
Analysis Batch: 520726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519744

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.2902	U	0.279	0.280	1.00	0.453	pCi/L	07/22/21 11:55	07/30/21 12:04	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-519744/23-A
Matrix: Water
Analysis Batch: 520726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519744

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	89.7		40 - 110
Y Carrier	92.3		40 - 110

Prepared	Analyzed	Dil Fac
07/22/21 11:55	07/30/21 12:04	1
07/22/21 11:55	07/30/21 12:04	1

Lab Sample ID: LCS 160-519744/1-A
Matrix: Water
Analysis Batch: 520725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519744

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
									75 - 125
Radium-228	9.48	11.65		1.28	1.00	0.332	pCi/L	123	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.3		40 - 110
Y Carrier	93.8		40 - 110

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Rad

Prep Batch: 513437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	PrecSep-21	
280-149466-2	MW-39B	Total/NA	Water	PrecSep-21	
280-149466-3	MW-42B	Total/NA	Water	PrecSep-21	
280-149466-4	MW-43B	Total/NA	Water	PrecSep-21	
280-149466-5	MW-47B	Total/NA	Water	PrecSep-21	
280-149466-6	MW-46B	Total/NA	Water	PrecSep-21	
280-149466-7	MW-45B	Total/NA	Water	PrecSep-21	
280-149466-8	MW-44B	Total/NA	Water	PrecSep-21	
280-149466-9	MW-37B	Total/NA	Water	PrecSep-21	
280-149466-10	MW-37B-FD	Total/NA	Water	PrecSep-21	
280-149466-11	MW-36B	Total/NA	Water	PrecSep-21	
280-149466-12	MW-41B	Total/NA	Water	PrecSep-21	
280-149466-13	MW-20B	Total/NA	Water	PrecSep-21	
280-149466-14	MW-14BR	Total/NA	Water	PrecSep-21	
280-149466-15	MW-40B	Total/NA	Water	PrecSep-21	
280-149466-16	FB	Total/NA	Water	PrecSep-21	
MB 160-513437/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-513437/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-513437/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
280-149466-11 MS	MW-36B	Total/NA	Water	PrecSep-21	
280-149466-11 MSD	MW-36B	Total/NA	Water	PrecSep-21	

Prep Batch: 513477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-17	MW-53B	Total/NA	Water	PrecSep-21	
280-149466-18	MW-52B	Total/NA	Water	PrecSep-21	
280-149466-19	MW-49B	Total/NA	Water	PrecSep-21	
280-149466-20	MW-21B	Total/NA	Water	PrecSep-21	
280-149466-21	MW-38C	Total/NA	Water	PrecSep-21	
280-149466-22	MW-38B	Total/NA	Water	PrecSep-21	
MB 160-513477/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-513477/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-513477/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 519474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	PrecSep_0	
280-149466-2	MW-39B	Total/NA	Water	PrecSep_0	
280-149466-3	MW-42B	Total/NA	Water	PrecSep_0	
280-149466-4	MW-43B	Total/NA	Water	PrecSep_0	
280-149466-5	MW-47B	Total/NA	Water	PrecSep_0	
280-149466-6	MW-46B	Total/NA	Water	PrecSep_0	
280-149466-7	MW-45B	Total/NA	Water	PrecSep_0	
280-149466-8	MW-44B	Total/NA	Water	PrecSep_0	
280-149466-9	MW-37B	Total/NA	Water	PrecSep_0	
280-149466-10	MW-37B-FD	Total/NA	Water	PrecSep_0	
280-149466-11	MW-36B	Total/NA	Water	PrecSep_0	
280-149466-12	MW-41B	Total/NA	Water	PrecSep_0	
280-149466-13	MW-20B	Total/NA	Water	PrecSep_0	
280-149466-14	MW-14BR	Total/NA	Water	PrecSep_0	
280-149466-15	MW-40B	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Denver

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Rad (Continued)

Prep Batch: 519474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-16	FB	Total/NA	Water	PrecSep_0	
280-149466-17	MW-53B	Total/NA	Water	PrecSep_0	
280-149466-18	MW-52B	Total/NA	Water	PrecSep_0	
MB 160-519474/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-519474/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
280-149466-11 MS	MW-36B	Total/NA	Water	PrecSep_0	
280-149466-11 MSD	MW-36B	Total/NA	Water	PrecSep_0	

Prep Batch: 519744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-19	MW-49B	Total/NA	Water	PrecSep_0	
280-149466-20	MW-21B	Total/NA	Water	PrecSep_0	
280-149466-21	MW-38C	Total/NA	Water	PrecSep_0	
280-149466-22	MW-38B	Total/NA	Water	PrecSep_0	
MB 160-519744/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-519744/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-32B

Lab Sample ID: 280-149466-1

Date Collected: 06/02/21 14:13

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.85 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 11:03	AK	TAL SL
Total/NA	Prep	PrecSep_0			982.55 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520440	07/28/21 13:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-39B

Lab Sample ID: 280-149466-2

Date Collected: 06/02/21 15:40

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.16 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 11:03	AK	TAL SL
Total/NA	Prep	PrecSep_0			999.07 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520440	07/28/21 13:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-42B

Lab Sample ID: 280-149466-3

Date Collected: 06/03/21 11:45

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.02 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518324	07/13/21 11:45	SCB	TAL SL
Total/NA	Prep	PrecSep_0			1000.69 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520440	07/28/21 13:30	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-43B

Lab Sample ID: 280-149466-4

Date Collected: 06/03/21 12:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.97 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:51	AK	TAL SL
Total/NA	Prep	PrecSep_0			974.36 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-47B

Lab Sample ID: 280-149466-5

Date Collected: 06/03/21 13:16

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.19 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:51	AK	TAL SL
Total/NA	Prep	PrecSep_0			992.68 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-46B

Lab Sample ID: 280-149466-6

Date Collected: 06/03/21 14:09

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.43 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:51	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.26 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-45B

Lab Sample ID: 280-149466-7

Date Collected: 06/03/21 15:03

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.16 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:50	AK	TAL SL
Total/NA	Prep	PrecSep_0			999.27 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-44B

Lab Sample ID: 280-149466-8

Date Collected: 06/03/21 15:37

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:51	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-37B

Lab Sample ID: 280-149466-9

Date Collected: 06/03/21 16:17

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.65 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:53	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.96 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:32	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-37B-FD

Lab Sample ID: 280-149466-10

Date Collected: 06/03/21 16:17

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.22 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:52	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.63 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:33	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-36B

Lab Sample ID: 280-149466-11

Date Collected: 06/03/21 16:58

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.25 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 12:53	AK	TAL SL
Total/NA	Prep	PrecSep_0			962.44 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:33	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-41B

Lab Sample ID: 280-149466-12

Date Collected: 06/03/21 17:52

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.11 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518324	07/13/21 13:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			980.26 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:34	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-20B

Lab Sample ID: 280-149466-13

Date Collected: 06/03/21 18:23

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.92 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 13:52	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.13 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520413	07/28/21 13:34	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-14BR

Lab Sample ID: 280-149466-14

Date Collected: 06/03/21 19:00

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.20 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 14:53	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.35 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520380	07/28/21 13:36	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-40B

Lab Sample ID: 280-149466-15

Date Collected: 06/04/21 09:14

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.75 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 14:53	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.84 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520380	07/28/21 13:36	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: FB

Lab Sample ID: 280-149466-16

Date Collected: 06/04/21 09:45

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.86 mL	1.0 g	513437	06/09/21 10:34	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 20:01	AK	TAL SL
Total/NA	Prep	PrecSep_0			999.74 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520380	07/28/21 13:36	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-53B

Lab Sample ID: 280-149466-17

Date Collected: 06/04/21 10:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.21 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 09:14	AK	TAL SL
Total/NA	Prep	PrecSep_0			985.60 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520380	07/28/21 13:36	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-52B

Lab Sample ID: 280-149466-18

Date Collected: 06/04/21 12:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			501.75 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 09:15	AK	TAL SL
Total/NA	Prep	PrecSep_0			750.48 mL	1.0 g	519474	07/20/21 16:21	MJ	TAL SL
Total/NA	Analysis	9320		1			520379	07/28/21 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521060	08/02/21 16:32	EMH	TAL SL

Client Sample ID: MW-49B

Lab Sample ID: 280-149466-19

Date Collected: 06/04/21 13:59

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.93 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 09:15	AK	TAL SL
Total/NA	Prep	PrecSep_0			988.18 mL	1.0 g	519744	07/22/21 11:55	MJ	TAL SL
Total/NA	Analysis	9320		1			520725	07/30/21 11:54	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521059	08/02/21 16:30	EMH	TAL SL

Client Sample ID: MW-21B

Lab Sample ID: 280-149466-20

Date Collected: 06/04/21 15:00

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.99 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 10:00	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.26 mL	1.0 g	519744	07/22/21 11:55	MJ	TAL SL
Total/NA	Analysis	9320		1			520725	07/30/21 11:54	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521059	08/02/21 16:30	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Client Sample ID: MW-38C

Lab Sample ID: 280-149466-21

Date Collected: 06/04/21 15:28

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.22 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 10:00	AK	TAL SL
Total/NA	Prep	PrecSep_0			917.17 mL	1.0 g	519744	07/22/21 11:55	MJ	TAL SL
Total/NA	Analysis	9320		1			520725	07/30/21 11:54	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521059	08/02/21 16:30	EMH	TAL SL

Client Sample ID: MW-38B

Lab Sample ID: 280-149466-22

Date Collected: 06/04/21 16:21

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.56 mL	1.0 g	513477	06/09/21 14:05	MJ	TAL SL
Total/NA	Analysis	9315		1			518325	07/13/21 10:00	AK	TAL SL
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	519744	07/22/21 11:55	MJ	TAL SL
Total/NA	Analysis	9320		1			520725	07/30/21 11:54	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			521059	08/02/21 16:30	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-21 *
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-21 *
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21 *
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record



Environment Testing
 America

Client Information		Lab PM: McEntee, Patrick J		Carrier Tracking Note(s)		COC No: 280-109364-31772.1	
Client Contact: Ms. Katie Abbott		E-Mail: Patrick.McEntee@Eurofinset.com		State of Origin:		Page:	
Company: AECOM Technical Services Inc.		PWSID:		Analysis Requested		Job #:	
Address: 6200 S. Quebec Street		Due Date Requested:		9315_Ra226 - Standard Target List		Preservation Codes:	
City: Greenwood Village		TAT Requested (days):		6020A - (MOD) 13 Metals		M - Hexane	
State, Zip: CO, 80111		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		9056A_28D - (MOD) Copy Analyses		N - None	
Phone:		PO # 127030		2540C_Calcd - Local Method		O - AsNaO2	
Email: katie.abbott@aecom.com		WO #: AECOM Project# 60632474		6010C_7470A		P - Na2O4S	
Project Name: CCR - Basin Electric 2021		Project #: 28020759		Perform MS/MSD (Yes or No)		Q - Na2SO3	
Site:		SSOW#:		Field Filtered Sample (Yes or No)		R - Na2S2O3	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
MW-32B		6/2/21		1413		G	
MW-34B		6/2/21		1540		G	
MW-42B		6/3/21		1145		G	
MW-43B		6/3/21		1218		G	
MW-47B		6/3/21		1316		G	
MW-46B		6/3/21		1409		G	
MW-45B		6/2/21		1503		G	
MW-44B		6/3/21		1537		G	
MW-37B		6/3/21		1617		G	
MW-37B-FD		6/3/21		1617		G	
MW-36B		6/3/21		1658		G	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: [Signature]		Date/Time: 6/4/21 20:00		Date/Time: 6/4/21 21:00		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: [Signature]		Date/Time: 6/5/21 8:05		Date/Time: 6-5-2021 8:05		Special Instructions/QC Requirements:	
Relinquished by: [Signature]		Date/Time:		Date/Time:		Method of Shipment:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) C and Other Remarks: 2.3 1.0 2.6 2.8 3.4 1R6		Company: AECOM	



280-149466 Chain of Custody



Chain of Custody Record

Client Information		Lab PM: McEntee, Patrick J		Carrier Tracking No(s): 280-109364-31772.1	
Client Contact: Ms. Katie Abbott		E-Mail: Patrick.McEntee@Eurofinset.com		Page: _____	
Company: AECOM Technical Services Inc.		PWSID: _____		Job #: _____	
Address: 6200 S. Quebec Street		Due Date Requested: _____		Preservation Codes:	
City: Greenwood Village		TAT Requested (days): _____		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: CO, 80111		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other: _____	
Phone: _____		PO # 127030		Total Number of containers: _____	
Email: katie.abbott@aecom.com		WO # AECOM Project# 60632474		Special Instructions/Note: _____	
Project Name: CCR - Basin Electric 2021		Project #: 28020759		Analysis Requested	
Site: _____		SSOW#: _____		<input type="checkbox"/> 2540C_Calcd - Local Method <input type="checkbox"/> 9056A_28D - (MOD) Copy Analytes <input type="checkbox"/> 6020A - (MOD) 13 Metals <input type="checkbox"/> 9315_Ra226 - Standard Target List	
Sample Identification		Field Filtered Sample (Yes or No)		6010C_7470A	
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, A=AM)	Field Filtered Sample (Yes or No)
MW-41B	6/3/21	1753	G	Water	<input checked="" type="checkbox"/>
MW-20B	6/3/21	1823	G	Water	<input checked="" type="checkbox"/>
MW-148B	6/3/21	1900	G	Water	<input checked="" type="checkbox"/>
MW-40B	6/4/21	0914	G	Water	<input checked="" type="checkbox"/>
FB	6/4/21	0945	G	Water	<input checked="" type="checkbox"/>
MW-53B	6/4/21	1018	G	Water	<input checked="" type="checkbox"/>
MW-52B	6/4/21	1218	G	Water	<input checked="" type="checkbox"/>
MW-49B	6/4/21	1329	G	Water	<input checked="" type="checkbox"/>
MW-210	6/4/21	1500	G	Water	<input checked="" type="checkbox"/>
MW-38C	6/4/21	1528	G	Water	<input checked="" type="checkbox"/>
MW-38D	6/4/21	1621	G	Water	<input checked="" type="checkbox"/>
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____					
Empty Kit Relinquished by:					
Relinquished by: _____		Date: 6/4/21 2006		Time: _____	
Relinquished by: _____		Date: 6/5/21 8:05		Time: _____	
Relinquished by: _____		Date: _____		Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: _____		Cooler Temperature(s) °C and Other Remarks: _____	

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: McEntee, Patrick J	Carrier Tracking No(s):	IOC No: 280-571769.2
Client Contact: Shipping/Receiving		Phone: Patrick McEntee@Eurofins.com	State of Origin: Colorado	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045	Accreditations Required (See note): NELAP - Oregon	Job #: 280-149466-1
City: Earth City		State, Zip: MO, 63045	Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Email:		WO #:		
Project Name: CCR - Basin Electric 2021		Project #: 28020759		
Site:		SSOW#:		
Due Date Requested: 7/6/2021		Analysis Requested		
TAT Requested (days):		9315_R4226/PreSep_21 Standard Target List		
		Field Filtered Sample (Yes or No)		
		Perform MS/MSD (Yes or No)		
		Total Number of Containers		
		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab) (BT=Tissue, AsM)	Matrix (W=water, S=solid, D=wastewat, BT=Tissue, AsM)
MW-37B-FD (280-149466-10)	6/3/21	16:17 Mountain		Water
MW-36B (280-149466-11)	6/3/21	16:58 Mountain		Water
MW-36B (280-149466-11MS)	6/3/21	16:58 Mountain	MS	Water
MW-36B (280-149466-11MSD)	6/3/21	16:58 Mountain	MSD	Water
MW-41B (280-149466-12)	6/3/21	17:52 Mountain		Water
MW-20B (280-149466-13)	6/3/21	18:23 Mountain		Water
MW-14BR (280-149466-14)	6/3/21	19:00 Mountain		Water
MW-40B (280-149466-15)	6/4/21	09:14 Mountain		Water
FB (280-149466-16)	6/4/21	09:45 Mountain		Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				
Empty Kit Relinquished by: Date: Time: Method of Shipment:				
Relinquished by: <i>Bob Winton</i> Date: 6-7-21 Time: 12:35 Company: PG				
Relinquished by: <i>PG</i> Date: 6/18/21 Time: 10:05 Company: Eurofins				
Relinquished by: Date: Time: Company:				
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:				
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				



Eurofins TestAmerica, Denver

4955 Yarrow Street
 Arvada, CO 80002
 Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM: McEntee, Patrick J	Carrier Tracking No(s)	COC No: 280-576949.1
Client Contact: Shipping/Receiving		E-Mail: Patrick.McEntee@Eurofins.com	State of Origin: Colorado	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon	Job #: 280-149466-1	
Address: 13715 Rider Trail North,		Analysis Requested		
City: Earth City	Due Date Requested: 8/4/2021	Total Number of Containers		
State, Zip: MO, 63045	TAT Requested (days):	Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Email:	WO #:	9315_Ra226/PreSep_21 Standard Target List		
Project Name: CCR - Basin Electric 2021	Project #: 28020759	9320_Ra228/PreSep_0 Standard Target List		
Site:	SSOW#:	Raz28Ra228_GFPc		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
MW-32B (280-149466-1)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, ASAU)
MW-39B (280-149466-2)	6/2/21	14:13 Mountain	Water	Water
MW-42B (280-149466-3)	6/2/21	15:40 Mountain	Water	Water
MW-43B (280-149466-4)	6/3/21	11:45 Mountain	Water	Water
MW-47B (280-149466-5)	6/3/21	12:18 Mountain	Water	Water
MW-46B (280-149466-6)	6/3/21	13:16 Mountain	Water	Water
MW-45B (280-149466-7)	6/3/21	14:09 Mountain	Water	Water
MW-44B (280-149466-8)	6/3/21	15:03 Mountain	Water	Water
MW-37B (280-149466-9)	6/3/21	15:37 Mountain	Water	Water
	6/3/21	16:17 Mountain	Water	Water

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *[Signature]* Date: 07/14/2021 15:15 Company: EIA DEN
 Relinquished by: _____ Date: _____ Company: _____
 Relinquished by: _____ Date: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *[Signature]* Date/Time: 7/15/21 08:55 Company: *[Signature]*
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-149466-1

Login Number: 149466

List Number: 1

Creator: Lee, Jerry

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-149466-1

Login Number: 149466

List Number: 2

Creator: Geiler, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 06/08/21 12:17 PM

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

Tracer/Carrier Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
280-149466-1	MW-32B	101	
280-149466-2	MW-39B	100	
280-149466-3	MW-42B	101	
280-149466-4	MW-43B	88.8	
280-149466-5	MW-47B	87.5	
280-149466-6	MW-46B	100	
280-149466-7	MW-45B	97.2	
280-149466-8	MW-44B	99.4	
280-149466-9	MW-37B	101	
280-149466-10	MW-37B-FD	96.9	
280-149466-11	MW-36B	94.1	
280-149466-11 MS	MW-36B	94.1	
280-149466-11 MSD	MW-36B	96.3	
280-149466-12	MW-41B	94.7	
280-149466-13	MW-20B	95.6	
280-149466-14	MW-14BR	92.2	
280-149466-15	MW-40B	86.3	
280-149466-16	FB	86.0	
280-149466-17	MW-53B	89.7	
280-149466-18	MW-52B	45.8	
280-149466-19	MW-49B	91.9	
280-149466-20	MW-21B	87.5	
280-149466-21	MW-38C	75.1	
280-149466-22	MW-38B	88.5	
LCS 160-513437/1-A	Lab Control Sample	98.4	
LCS 160-513477/1-A	Lab Control Sample	94.4	
LCSD 160-513437/2-A	Lab Control Sample Dup	103	
LCSD 160-513477/2-A	Lab Control Sample Dup	99.4	
MB 160-513437/25-A	Method Blank	99.7	
MB 160-513477/23-A	Method Blank	85.7	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
280-149466-1	MW-32B	94.3	88.7
280-149466-2	MW-39B	87.7	91.1
280-149466-3	MW-42B	91.4	91.1
280-149466-4	MW-43B	64.4	88.1
280-149466-5	MW-47B	89.7	89.3
280-149466-6	MW-46B	83.7	89.6
280-149466-7	MW-45B	78.9	90.2
280-149466-8	MW-44B	87.0	89.0
280-149466-9	MW-37B	66.6	90.2
280-149466-10	MW-37B-FD	69.7	89.0

Tracer/Carrier Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
280-149466-11	MW-36B	88.1	89.9
280-149466-11 MS	MW-36B	89.0	90.5
280-149466-11 MSD	MW-36B	93.2	89.6
280-149466-12	MW-41B	92.3	88.7
280-149466-13	MW-20B	81.5	92.9
280-149466-14	MW-14BR	67.0	90.5
280-149466-15	MW-40B	87.5	90.5
280-149466-16	FB	80.0	92.0
280-149466-17	MW-53B	87.7	93.8
280-149466-18	MW-52B	47.9	94.3
280-149466-19	MW-49B	88.4	92.9
280-149466-20	MW-21B	90.3	91.4
280-149466-21	MW-38C	92.1	92.3
280-149466-22	MW-38B	86.8	91.7
LCS 160-519474/1-A	Lab Control Sample	94.1	89.9
LCS 160-519744/1-A	Lab Control Sample	94.3	93.8
MB 160-519474/23-A	Method Blank	85.1	94.9
MB 160-519744/23-A	Method Blank	89.7	92.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-149466-2
Client Project/Site: CCR - Basin Electric 2021

For:

AECOM Technical Services Inc.
6200 S. Quebec Street
Greenwood Village, Colorado 80111

Attn: Ms. Katie Abbott



*Authorized for release by:
6/25/2021 3:20:09 PM*

Patrick McEntee, Client Service Manager
(303)736-0107
Patrick.McEntee@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Job ID: 280-149466-2

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: CCR - Basin Electric 2021

Report Number: 280-149466-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/5/2021 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.4° C, 2.7° C, 3.0° C, 3.2° C and 3.8° C.

Receipt Exceptions

Unable to read ID and date on 1 of 2 500ml preserved container. Matched with sample time per COC.

Sample ID on 1L unpreserved container reads MW-45. COC reads MW-45B. Time and date matches. Logged per COC.

Unable to read date on 250mL unpreserved and 1 of 2 500mL preserved containers for sample FB. ID and sample time matches with COC. Logged per COC.

Unable to read ID on 1L unpreserved container. Sample time and date matches with MW-53B on COC. Logged per COC.

TOTAL RECOVERABLE METALS

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for Total Recoverable Metals in accordance with EPA SW-846 Method 6010C. The samples were prepared on 06/12/2021 and analyzed on 06/13/2021.

Calcium was detected in method blank MB 280-539533/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details. Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Job ID: 280-149466-2 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

(280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 06/09/2021 and analyzed on 06/10/2021, 06/18/2021 and 06/21/2021.

The continuing calibration verification low (CCVL) associated with batch 240-491521 recovered above the upper control limit for thallium. The samples associated with this CCVL were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 280-149466-1, 280-149466-2, 280-149466-3, 280-149466-4, 280-149466-5, 280-149466-6, 280-149466-7, 280-149466-8, 280-149466-9, 280-149466-10, 280-149466-11, 280-149466-12, 280-149466-13, 280-149466-14, 280-149466-15, 280-149466-16, 280-149466-17, 280-149466-18, 280-149466-19 and 280-149466-20.

The continuing calibration verification (CCV) associated with batch 240-491521 recovered above the upper control limit for lithium. The samples associated with this CCV were below the requested reporting limit for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 280-149466-16.

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

TOTAL MERCURY

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/11/2021 and 06/15/2021.

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

TOTAL DISSOLVED SOLIDS

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 06/08/2021 and 06/09/2021.

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

ANIONS (28 DAYS)

Samples MW-32B (280-149466-1), MW-39B (280-149466-2), MW-42B (280-149466-3), MW-43B (280-149466-4), MW-47B (280-149466-5), MW-46B (280-149466-6), MW-45B (280-149466-7), MW-44B (280-149466-8), MW-37B (280-149466-9), MW-37B-FD (280-149466-10), MW-36B (280-149466-11), MW-41B (280-149466-12), MW-20B (280-149466-13), MW-14BR (280-149466-14), MW-40B (280-149466-15), FB (280-149466-16), MW-53B (280-149466-17), MW-52B (280-149466-18), MW-49B (280-149466-19), MW-21B (280-149466-20), MW-38C (280-149466-21) and MW-38B (280-149466-22) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A (28 Days). The samples were analyzed on 06/22/2021 and 06/23/2021.

Fluoride and Sulfate failed the recovery criteria low for the MS of sample MW-38BMS (280-149466-22) in batch 280-540901. Fluoride and Sulfate failed the recovery criteria low for the MSD of sample MW-38BMSD (280-149466-22) in batch 280-540901. Refer to the QC report for details.

Samples MW-32B (280-149466-1)[5X], MW-39B (280-149466-2)[5X], MW-42B (280-149466-3)[10X], MW-43B (280-149466-4)[5X], MW-47B (280-149466-5)[5X], MW-46B (280-149466-6)[5X], MW-45B (280-149466-7)[5X], MW-44B (280-149466-8)[5X], MW-37B (280-149466-9)[5X], MW-37B-FD (280-149466-10)[5X], MW-36B (280-149466-11)[5X], MW-41B (280-149466-12)[10X], MW-20B (280-149466-13)[5X], MW-14BR (280-149466-14)[5X], MW-40B (280-149466-15)[2X], MW-53B (280-149466-17)[5X], MW-52B (280-149466-18)[5X], MW-49B (280-149466-19)[5X], MW-21B (280-149466-20)[5X], MW-38C (280-149466-21)[5X], MW-38B (280-149466-22)[5X] and MW-38B (280-149466-22)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Job ID: 280-149466-2 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

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Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-32B

Lab Sample ID: 280-149466-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.313		0.100		mg/L	1		6010C	Total Recoverable
Calcium	201	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0332		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0743		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	97.1		3.00		mg/L	1		9056A	Total/NA
Sulfate	832		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1830		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-39B

Lab Sample ID: 280-149466-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.189		0.100		mg/L	1		6010C	Total Recoverable
Calcium	202	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0332		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0579		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	47.8		3.00		mg/L	1		9056A	Total/NA
Sulfate	562		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1300		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-42B

Lab Sample ID: 280-149466-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.756		0.100		mg/L	1		6010C	Total Recoverable
Calcium	163	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0189		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0431		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0662		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0161		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	114		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.545		0.500		mg/L	1		9056A	Total/NA
Sulfate	918		50.0		mg/L	10		9056A	Total/NA
Total Dissolved Solids (TDS)	1770		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-43B

Lab Sample ID: 280-149466-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.296		0.100		mg/L	1		6010C	Total Recoverable
Calcium	94.4	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0266		0.00500		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-43B (Continued)

Lab Sample ID: 280-149466-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0301		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0180		0.0100		mg/L	1		6020A	Total Recoverable
Chloride	34.0		3.00		mg/L	1		9056A	Total/NA
Sulfate	343		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	811		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-47B

Lab Sample ID: 280-149466-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.140		0.100		mg/L	1		6010C	Total Recoverable
Calcium	128	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0757		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00588		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0284		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	32.1		3.00		mg/L	1		9056A	Total/NA
Sulfate	309		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	770		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-46B

Lab Sample ID: 280-149466-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	93.6	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0620		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.0110		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0254		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	37.1		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.519		0.500		mg/L	1		9056A	Total/NA
Sulfate	231		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	627		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-45B

Lab Sample ID: 280-149466-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.183		0.100		mg/L	1		6010C	Total Recoverable
Calcium	152	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0440		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0337		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00905		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	48.3		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.717		0.500		mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-45B (Continued)

Lab Sample ID: 280-149466-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	364		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	916		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-44B

Lab Sample ID: 280-149466-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.105		0.100		mg/L	1		6010C	Total Recoverable
Calcium	176	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0481		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00670		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0333		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00570		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	60.2		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.638		0.500		mg/L	1		9056A	Total/NA
Sulfate	412		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1080		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-37B

Lab Sample ID: 280-149466-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.160		0.100		mg/L	1		6010C	Total Recoverable
Calcium	218	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0629		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0394		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0592		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0136		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	126		3.00		mg/L	1		9056A	Total/NA
Sulfate	548		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1380		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-37B-FD

Lab Sample ID: 280-149466-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.161		0.100		mg/L	1		6010C	Total Recoverable
Calcium	219	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0648		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0400		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0604		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0140		0.00500		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-37B-FD (Continued)

Lab Sample ID: 280-149466-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	126		3.00		mg/L	1		9056A	Total/NA
Sulfate	596		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1380		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-36B

Lab Sample ID: 280-149466-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.102		0.100		mg/L	1		6010C	Total Recoverable
Calcium	142	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0624		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0329		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00627		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	45.1		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.589		0.500		mg/L	1		9056A	Total/NA
Sulfate	374		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	915		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-41B

Lab Sample ID: 280-149466-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.857		0.100		mg/L	1		6010C	Total Recoverable
Calcium	244	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0200		0.00500		mg/L	1		6020A	Total Recoverable
Cobalt	0.00118		0.00100		mg/L	1		6020A	Total Recoverable
Lithium	0.0532		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.139		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.00652		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	135		3.00		mg/L	1		9056A	Total/NA
Sulfate	1060		50.0		mg/L	10		9056A	Total/NA
Total Dissolved Solids (TDS)	2020		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20B

Lab Sample ID: 280-149466-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.229		0.100		mg/L	1		6010C	Total Recoverable
Calcium	145	B	0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0550		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0358		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	50.7		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.660		0.500		mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-20B (Continued)

Lab Sample ID: 280-149466-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	405		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	972		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-14BR

Lab Sample ID: 280-149466-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.152		0.100		mg/L	1		6010C	Total Recoverable
Calcium	173		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0433		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00948		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0313		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0103		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0132		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	86.4		3.00		mg/L	1		9056A	Total/NA
Sulfate	363		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	960		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-40B

Lab Sample ID: 280-149466-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.166		0.100		mg/L	1		6010C	Total Recoverable
Calcium	131		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0274		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0508		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	27.7		6.00		mg/L	2		9056A	Total/NA
Sulfate	307		10.0		mg/L	2		9056A	Total/NA
Total Dissolved Solids (TDS)	882		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB

Lab Sample ID: 280-149466-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids (TDS)	21.0		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-53B

Lab Sample ID: 280-149466-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.113		0.100		mg/L	1		6010C	Total Recoverable
Calcium	99.7		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0427		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0341		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.0103		0.00500		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-53B (Continued)

Lab Sample ID: 280-149466-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	51.1		3.00		mg/L	1		9056A	Total/NA
Fluoride	1.02		0.500		mg/L	1		9056A	Total/NA
Sulfate	220		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	698		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-52B

Lab Sample ID: 280-149466-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.174		0.100		mg/L	1		6010C	Total Recoverable
Calcium	158		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0653		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0456		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	47.7		3.00		mg/L	1		9056A	Total/NA
Sulfate	455		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1130		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-49B

Lab Sample ID: 280-149466-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.165		0.100		mg/L	1		6010C	Total Recoverable
Calcium	144		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0617		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0414		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	36.3		3.00		mg/L	1		9056A	Total/NA
Sulfate	422		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1010		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-21B

Lab Sample ID: 280-149466-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.195		0.100		mg/L	1		6010C	Total Recoverable
Calcium	246		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0408		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.0143		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0387		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0176		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0397		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	227		15.0		mg/L	5		9056A	Total/NA
Fluoride	0.623		0.500		mg/L	1		9056A	Total/NA
Sulfate	603		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1620		20.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-38C

Lab Sample ID: 280-149466-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	99.3		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0465		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0232		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00608		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	29.5		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.536		0.500		mg/L	1		9056A	Total/NA
Sulfate	202		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	616		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-38B

Lab Sample ID: 280-149466-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.43		0.100		mg/L	1		6010C	Total Recoverable
Calcium	515		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0161		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00759		0.00200		mg/L	1		6020A	Total Recoverable
Cobalt	0.00130		0.00100		mg/L	1		6020A	Total Recoverable
Lithium	0.117		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.211		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.00839		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	349		15.0		mg/L	5		9056A	Total/NA
Fluoride	0.934	F1	0.500		mg/L	1		9056A	Total/NA
Sulfate	5790		250		mg/L	50		9056A	Total/NA
Total Dissolved Solids (TDS)	9240		100		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL DEN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL DEN
7470A	Preparation, Mercury	SW846	TAL DEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-149466-1	MW-32B	Water	06/02/21 14:13	06/05/21 08:05	
280-149466-2	MW-39B	Water	06/02/21 15:40	06/05/21 08:05	
280-149466-3	MW-42B	Water	06/03/21 11:45	06/05/21 08:05	
280-149466-4	MW-43B	Water	06/03/21 12:18	06/05/21 08:05	
280-149466-5	MW-47B	Water	06/03/21 13:16	06/05/21 08:05	
280-149466-6	MW-46B	Water	06/03/21 14:09	06/05/21 08:05	
280-149466-7	MW-45B	Water	06/03/21 15:03	06/05/21 08:05	
280-149466-8	MW-44B	Water	06/03/21 15:37	06/05/21 08:05	
280-149466-9	MW-37B	Water	06/03/21 16:17	06/05/21 08:05	
280-149466-10	MW-37B-FD	Water	06/03/21 16:17	06/05/21 08:05	
280-149466-11	MW-36B	Water	06/03/21 16:58	06/05/21 08:05	
280-149466-12	MW-41B	Water	06/03/21 17:52	06/05/21 08:05	
280-149466-13	MW-20B	Water	06/03/21 18:23	06/05/21 08:05	
280-149466-14	MW-14BR	Water	06/03/21 19:00	06/05/21 08:05	
280-149466-15	MW-40B	Water	06/04/21 09:14	06/05/21 08:05	
280-149466-16	FB	Water	06/04/21 09:45	06/05/21 08:05	
280-149466-17	MW-53B	Water	06/04/21 10:18	06/05/21 08:05	
280-149466-18	MW-52B	Water	06/04/21 12:18	06/05/21 08:05	
280-149466-19	MW-49B	Water	06/04/21 13:59	06/05/21 08:05	
280-149466-20	MW-21B	Water	06/04/21 15:00	06/05/21 08:05	
280-149466-21	MW-38C	Water	06/04/21 15:28	06/05/21 08:05	
280-149466-22	MW-38B	Water	06/04/21 16:21	06/05/21 08:05	

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.313		0.100		mg/L		06/12/21 12:00	06/13/21 19:19	1
Calcium	201	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:19	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.189		0.100		mg/L		06/12/21 12:00	06/13/21 19:23	1
Calcium	202	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:23	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.756		0.100		mg/L		06/12/21 12:00	06/13/21 19:26	1
Calcium	163	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:26	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.296		0.100		mg/L		06/12/21 12:00	06/13/21 19:30	1
Calcium	94.4	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:30	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.140		0.100		mg/L		06/12/21 12:00	06/13/21 19:34	1
Calcium	128	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:34	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		06/12/21 12:00	06/13/21 19:37	1
Calcium	93.6	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:37	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.183		0.100		mg/L		06/12/21 12:00	06/13/21 19:41	1
Calcium	152	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:41	1

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.105		0.100		mg/L		06/12/21 12:00	06/13/21 19:44	1
Calcium	176	B	0.200		mg/L		06/12/21 12:00	06/13/21 19:44	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.160		0.100		mg/L		06/12/21 12:00	06/13/21 20:02	1
Calcium	218	B	0.200		mg/L		06/12/21 12:00	06/13/21 20:02	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.161		0.100		mg/L		06/12/21 12:00	06/13/21 20:05	1
Calcium	219	B	0.200		mg/L		06/12/21 12:00	06/13/21 20:05	1

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.102		0.100		mg/L		06/12/21 12:00	06/13/21 20:09	1
Calcium	142	B	0.200		mg/L		06/12/21 12:00	06/13/21 20:09	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.857		0.100		mg/L		06/12/21 12:00	06/13/21 20:23	1
Calcium	244	B	0.200		mg/L		06/12/21 12:00	06/13/21 20:23	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.229		0.100		mg/L		06/12/21 12:00	06/13/21 20:27	1
Calcium	145	B	0.200		mg/L		06/12/21 12:00	06/13/21 20:27	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.152		0.100		mg/L		06/12/21 12:00	06/13/21 20:51	1
Calcium	173		0.200		mg/L		06/12/21 12:00	06/13/21 20:51	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.166		0.100		mg/L		06/12/21 12:00	06/13/21 21:05	1
Calcium	131		0.200		mg/L		06/12/21 12:00	06/13/21 21:05	1

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		06/12/21 12:00	06/13/21 21:09	1
Calcium	ND		0.200		mg/L		06/12/21 12:00	06/13/21 21:09	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.113		0.100		mg/L		06/12/21 12:00	06/13/21 21:26	1
Calcium	99.7		0.200		mg/L		06/12/21 12:00	06/13/21 21:26	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.174		0.100		mg/L		06/12/21 12:00	06/13/21 21:29	1
Calcium	158		0.200		mg/L		06/12/21 12:00	06/13/21 21:29	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.165		0.100		mg/L		06/12/21 12:00	06/13/21 21:33	1
Calcium	144		0.200		mg/L		06/12/21 12:00	06/13/21 21:33	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.195		0.100		mg/L		06/12/21 12:00	06/13/21 21:37	1
Calcium	246		0.200		mg/L		06/12/21 12:00	06/13/21 21:37	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		06/12/21 12:00	06/13/21 21:40	1
Calcium	99.3		0.200		mg/L		06/12/21 12:00	06/13/21 21:40	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.43		0.100		mg/L		06/12/21 12:00	06/13/21 21:44	1
Calcium	515		0.200		mg/L		06/12/21 12:00	06/13/21 21:44	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:41	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:41	1
Barium	0.0332		0.00500		mg/L		06/09/21 14:00	06/18/21 19:41	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:41	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:41	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:41	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:41	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:41	1
Lithium	0.0743		0.00800		mg/L		06/09/21 14:00	06/18/21 19:41	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:41	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:41	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:41	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:44	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:44	1
Barium	0.0332		0.00500		mg/L		06/09/21 14:00	06/18/21 19:44	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:44	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:44	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:44	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:44	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:44	1
Lithium	0.0579		0.00800		mg/L		06/09/21 14:00	06/18/21 19:44	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:44	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:44	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:44	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:47	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:47	1
Barium	0.0189		0.00500		mg/L		06/09/21 14:00	06/18/21 19:47	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:47	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:47	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:47	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:47	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:47	1
Lithium	0.0431		0.00800		mg/L		06/09/21 14:00	06/18/21 19:47	1
Molybdenum	0.0662		0.0100		mg/L		06/09/21 14:00	06/18/21 19:47	1
Selenium	0.0161		0.00500		mg/L		06/09/21 14:00	06/18/21 19:47	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:47	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:49	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:49	1
Barium	0.0266		0.00500		mg/L		06/09/21 14:00	06/18/21 19:49	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:49	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:49	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:49	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:49	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:49	1
Lithium	0.0301		0.00800		mg/L		06/09/21 14:00	06/18/21 19:49	1
Molybdenum	0.0180		0.0100		mg/L		06/09/21 14:00	06/18/21 19:49	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:49	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:49	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:57	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:57	1
Barium	0.0757		0.00500		mg/L		06/09/21 14:00	06/18/21 19:57	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:57	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:57	1
Chromium	0.00588		0.00500		mg/L		06/09/21 14:00	06/18/21 19:57	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:57	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:57	1
Lithium	0.0284		0.00800		mg/L		06/09/21 14:00	06/18/21 19:57	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:57	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:57	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:57	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:59	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:59	1
Barium	0.0620		0.00500		mg/L		06/09/21 14:00	06/18/21 19:59	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:59	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:59	1
Chromium	0.0110		0.00500		mg/L		06/09/21 14:00	06/18/21 19:59	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:59	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:59	1
Lithium	0.0254		0.00800		mg/L		06/09/21 14:00	06/18/21 19:59	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:59	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:59	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:59	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:02	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:02	1
Barium	0.0440		0.00500		mg/L		06/09/21 14:00	06/18/21 20:02	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:02	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:02	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:02	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:02	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:02	1
Lithium	0.0337		0.00800		mg/L		06/09/21 14:00	06/18/21 20:02	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:02	1
Selenium	0.00905		0.00500		mg/L		06/09/21 14:00	06/18/21 20:02	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:02	1

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:04	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:04	1
Barium	0.0481		0.00500		mg/L		06/09/21 14:00	06/18/21 20:04	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:04	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:04	1
Chromium	0.00670		0.00500		mg/L		06/09/21 14:00	06/18/21 20:04	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:04	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:04	1
Lithium	0.0333		0.00800		mg/L		06/09/21 14:00	06/18/21 20:04	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:04	1
Selenium	0.00570		0.00500		mg/L		06/09/21 14:00	06/18/21 20:04	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:04	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:07	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:07	1
Barium	0.0629		0.00500		mg/L		06/09/21 14:00	06/18/21 20:07	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:07	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:07	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:07	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:07	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:07	1
Lithium	0.0394		0.00800		mg/L		06/09/21 14:00	06/18/21 20:07	1
Molybdenum	0.0592		0.0100		mg/L		06/09/21 14:00	06/18/21 20:07	1
Selenium	0.0136		0.00500		mg/L		06/09/21 14:00	06/18/21 20:07	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:07	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:09	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:09	1
Barium	0.0648		0.00500		mg/L		06/09/21 14:00	06/18/21 20:09	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:09	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:09	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:09	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:09	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:09	1
Lithium	0.0400		0.00800		mg/L		06/09/21 14:00	06/18/21 20:09	1
Molybdenum	0.0604		0.0100		mg/L		06/09/21 14:00	06/18/21 20:09	1
Selenium	0.0140		0.00500		mg/L		06/09/21 14:00	06/18/21 20:09	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:09	1

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:30	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:30	1
Barium	0.0624		0.00500		mg/L		06/09/21 14:00	06/18/21 19:30	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:30	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:30	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:30	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:30	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:30	1
Lithium	0.0329		0.00800		mg/L		06/09/21 14:00	06/18/21 19:30	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:30	1
Selenium	0.00627		0.00500		mg/L		06/09/21 14:00	06/18/21 19:30	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:30	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:12	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:12	1
Barium	0.0200		0.00500		mg/L		06/09/21 14:00	06/18/21 20:12	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:12	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:12	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:12	1
Cobalt	0.00118		0.00100		mg/L		06/09/21 14:00	06/18/21 20:12	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:12	1
Lithium	0.0532		0.00800		mg/L		06/09/21 14:00	06/18/21 20:12	1
Molybdenum	0.139		0.0100		mg/L		06/09/21 14:00	06/18/21 20:12	1
Selenium	0.00652		0.00500		mg/L		06/09/21 14:00	06/18/21 20:12	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:12	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:14	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:14	1
Barium	0.0550		0.00500		mg/L		06/09/21 14:00	06/18/21 20:14	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:14	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:14	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:14	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:14	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:14	1
Lithium	0.0358		0.00800		mg/L		06/09/21 14:00	06/18/21 20:14	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:14	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:14	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:14	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:17	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:17	1
Barium	0.0433		0.00500		mg/L		06/09/21 14:00	06/18/21 20:17	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:17	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:17	1
Chromium	0.00948		0.00500		mg/L		06/09/21 14:00	06/18/21 20:17	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:17	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:17	1
Lithium	0.0313		0.00800		mg/L		06/09/21 14:00	06/18/21 20:17	1
Molybdenum	0.0103		0.0100		mg/L		06/09/21 14:00	06/18/21 20:17	1
Selenium	0.0132		0.00500		mg/L		06/09/21 14:00	06/18/21 20:17	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:17	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:19	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:19	1
Barium	0.0274		0.00500		mg/L		06/09/21 14:00	06/18/21 20:19	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:19	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:19	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:19	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:19	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:19	1
Lithium	0.0508		0.00800		mg/L		06/09/21 14:00	06/18/21 20:19	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:19	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:19	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:19	1

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:27	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:27	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:27	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:27	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:27	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:27	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:27	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:27	1
Lithium	ND	^+	0.00800		mg/L		06/09/21 14:00	06/18/21 20:27	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:27	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:27	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:27	1

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:29	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:29	1
Barium	0.0427		0.00500		mg/L		06/09/21 14:00	06/18/21 20:29	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:29	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:29	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:29	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:29	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:29	1
Lithium	0.0341		0.00800		mg/L		06/09/21 14:00	06/21/21 20:07	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:29	1
Selenium	0.0103		0.00500		mg/L		06/09/21 14:00	06/18/21 20:29	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:29	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:32	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:32	1
Barium	0.0653		0.00500		mg/L		06/09/21 14:00	06/18/21 20:32	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:32	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:32	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:32	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:32	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:32	1
Lithium	0.0456		0.00800		mg/L		06/09/21 14:00	06/21/21 20:09	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:32	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:32	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:32	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:34	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:34	1
Barium	0.0617		0.00500		mg/L		06/09/21 14:00	06/18/21 20:34	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:34	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:34	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:34	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:34	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:34	1
Lithium	0.0414		0.00800		mg/L		06/09/21 14:00	06/21/21 20:12	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 20:34	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:34	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:34	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 20:37	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 20:37	1
Barium	0.0408		0.00500		mg/L		06/09/21 14:00	06/18/21 20:37	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:37	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:37	1
Chromium	0.0143		0.00500		mg/L		06/09/21 14:00	06/18/21 20:37	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:37	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 20:37	1
Lithium	0.0387		0.00800		mg/L		06/09/21 14:00	06/21/21 20:14	1
Molybdenum	0.0176		0.0100		mg/L		06/09/21 14:00	06/18/21 20:37	1
Selenium	0.0397		0.00500		mg/L		06/09/21 14:00	06/18/21 20:37	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 20:37	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/10/21 15:43	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/10/21 15:43	1
Barium	0.0465		0.00500		mg/L		06/09/21 14:00	06/10/21 15:43	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:43	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:43	1
Chromium	ND		0.00200		mg/L		06/09/21 14:00	06/10/21 15:43	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:43	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:43	1
Lithium	0.0232		0.00800		mg/L		06/09/21 14:00	06/10/21 15:43	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/10/21 15:43	1
Selenium	0.00608		0.00500		mg/L		06/09/21 14:00	06/10/21 15:43	1
Thallium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:43	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/10/21 15:59	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/10/21 15:59	1
Barium	0.0161		0.00500		mg/L		06/09/21 14:00	06/10/21 15:59	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:59	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:59	1
Chromium	0.00759		0.00200		mg/L		06/09/21 14:00	06/10/21 15:59	1
Cobalt	0.00130		0.00100		mg/L		06/09/21 14:00	06/10/21 15:59	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:59	1
Lithium	0.117		0.00800		mg/L		06/09/21 14:00	06/10/21 15:59	1
Molybdenum	0.211		0.0100		mg/L		06/09/21 14:00	06/10/21 15:59	1
Selenium	0.00839		0.00500		mg/L		06/09/21 14:00	06/10/21 15:59	1
Thallium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 15:59	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/11/21 16:00	06/11/21 20:27	1

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/11/21 16:00	06/11/21 20:30	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 21:53	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 21:55	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 21:58	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:01	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:03	1

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:06	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:08	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:11	1

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:13	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:26	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:29	1

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:31	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:34	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 7470A - Mercury (CVAA)

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:36	1

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:39	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:41	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:44	1

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:46	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:54	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 22:57	1

General Chemistry

Client Sample ID: MW-32B
Date Collected: 06/02/21 14:13
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.1		3.00		mg/L			06/22/21 23:39	1
Fluoride	ND		0.500		mg/L			06/22/21 23:39	1
Sulfate	832		25.0		mg/L			06/22/21 23:53	5
Total Dissolved Solids (TDS)	1830		20.0		mg/L			06/08/21 11:48	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry

Client Sample ID: MW-39B
Date Collected: 06/02/21 15:40
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.8		3.00		mg/L			06/23/21 00:07	1
Fluoride	ND		0.500		mg/L			06/23/21 00:07	1
Sulfate	562		25.0		mg/L			06/23/21 00:21	5
Total Dissolved Solids (TDS)	1300		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-42B
Date Collected: 06/03/21 11:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		3.00		mg/L			06/23/21 00:35	1
Fluoride	0.545		0.500		mg/L			06/23/21 00:35	1
Sulfate	918		50.0		mg/L			06/23/21 00:49	10
Total Dissolved Solids (TDS)	1770		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-43B
Date Collected: 06/03/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		3.00		mg/L			06/23/21 01:03	1
Fluoride	ND		0.500		mg/L			06/23/21 01:03	1
Sulfate	343		25.0		mg/L			06/23/21 01:17	5
Total Dissolved Solids (TDS)	811		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-47B
Date Collected: 06/03/21 13:16
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		3.00		mg/L			06/23/21 01:31	1
Fluoride	ND		0.500		mg/L			06/23/21 01:31	1
Sulfate	309		25.0		mg/L			06/23/21 02:13	5
Total Dissolved Solids (TDS)	770		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-46B
Date Collected: 06/03/21 14:09
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		3.00		mg/L			06/23/21 02:27	1
Fluoride	0.519		0.500		mg/L			06/23/21 02:27	1
Sulfate	231		25.0		mg/L			06/23/21 02:41	5
Total Dissolved Solids (TDS)	627		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-45B
Date Collected: 06/03/21 15:03
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.3		3.00		mg/L			06/23/21 02:55	1
Fluoride	0.717		0.500		mg/L			06/23/21 02:55	1
Sulfate	364		25.0		mg/L			06/23/21 03:09	5
Total Dissolved Solids (TDS)	916		10.0		mg/L			06/08/21 11:48	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry

Client Sample ID: MW-44B
Date Collected: 06/03/21 15:37
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.2		3.00		mg/L			06/23/21 03:23	1
Fluoride	0.638		0.500		mg/L			06/23/21 03:23	1
Sulfate	412		25.0		mg/L			06/23/21 03:37	5
Total Dissolved Solids (TDS)	1080		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-37B
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		3.00		mg/L			06/23/21 03:51	1
Fluoride	ND		0.500		mg/L			06/23/21 03:51	1
Sulfate	548		25.0		mg/L			06/23/21 04:05	5
Total Dissolved Solids (TDS)	1380		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-37B-FD
Date Collected: 06/03/21 16:17
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		3.00		mg/L			06/23/21 04:19	1
Fluoride	ND		0.500		mg/L			06/23/21 04:19	1
Sulfate	596		25.0		mg/L			06/23/21 05:01	5
Total Dissolved Solids (TDS)	1380		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-36B
Date Collected: 06/03/21 16:58
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.1		3.00		mg/L			06/23/21 05:15	1
Fluoride	0.589		0.500		mg/L			06/23/21 05:15	1
Sulfate	374		25.0		mg/L			06/23/21 06:11	5
Total Dissolved Solids (TDS)	915		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-41B
Date Collected: 06/03/21 17:52
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		3.00		mg/L			06/23/21 07:07	1
Fluoride	ND		0.500		mg/L			06/23/21 07:07	1
Sulfate	1060		50.0		mg/L			06/23/21 07:49	10
Total Dissolved Solids (TDS)	2020		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-20B
Date Collected: 06/03/21 18:23
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.7		3.00		mg/L			06/23/21 08:45	1
Fluoride	0.660		0.500		mg/L			06/23/21 08:45	1
Sulfate	405		25.0		mg/L			06/23/21 08:59	5
Total Dissolved Solids (TDS)	972		20.0		mg/L			06/08/21 11:48	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry

Client Sample ID: MW-14BR
Date Collected: 06/03/21 19:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		3.00		mg/L			06/23/21 09:13	1
Fluoride	ND		0.500		mg/L			06/23/21 09:13	1
Sulfate	363		25.0		mg/L			06/23/21 09:27	5
Total Dissolved Solids (TDS)	960		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-40B
Date Collected: 06/04/21 09:14
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		6.00		mg/L			06/23/21 09:41	2
Fluoride	ND		1.00		mg/L			06/23/21 09:41	2
Sulfate	307		10.0		mg/L			06/23/21 09:41	2
Total Dissolved Solids (TDS)	882		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: FB
Date Collected: 06/04/21 09:45
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			06/23/21 09:54	1
Fluoride	ND		0.500		mg/L			06/23/21 09:54	1
Sulfate	ND		5.00		mg/L			06/23/21 09:54	1
Total Dissolved Solids (TDS)	21.0		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-53B
Date Collected: 06/04/21 10:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.1		3.00		mg/L			06/23/21 10:36	1
Fluoride	1.02		0.500		mg/L			06/23/21 10:36	1
Sulfate	220		25.0		mg/L			06/23/21 10:50	5
Total Dissolved Solids (TDS)	698		10.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-52B
Date Collected: 06/04/21 12:18
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.7		3.00		mg/L			06/23/21 11:04	1
Fluoride	ND		0.500		mg/L			06/23/21 11:04	1
Sulfate	455		25.0		mg/L			06/23/21 11:18	5
Total Dissolved Solids (TDS)	1130		20.0		mg/L			06/08/21 11:48	1

Client Sample ID: MW-49B
Date Collected: 06/04/21 13:59
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		3.00		mg/L			06/23/21 12:00	1
Fluoride	ND		0.500		mg/L			06/23/21 12:00	1
Sulfate	422		25.0		mg/L			06/23/21 12:14	5
Total Dissolved Solids (TDS)	1010		20.0		mg/L			06/08/21 11:48	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry

Client Sample ID: MW-21B
Date Collected: 06/04/21 15:00
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		15.0		mg/L			06/23/21 12:42	5
Fluoride	0.623		0.500		mg/L			06/23/21 12:28	1
Sulfate	603		25.0		mg/L			06/23/21 12:42	5
Total Dissolved Solids (TDS)	1620		20.0		mg/L			06/09/21 11:48	1

Client Sample ID: MW-38C
Date Collected: 06/04/21 15:28
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		3.00		mg/L			06/23/21 12:56	1
Fluoride	0.536		0.500		mg/L			06/23/21 12:56	1
Sulfate	202		25.0		mg/L			06/23/21 17:50	5
Total Dissolved Solids (TDS)	616		10.0		mg/L			06/09/21 11:48	1

Client Sample ID: MW-38B
Date Collected: 06/04/21 16:21
Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-22
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		15.0		mg/L			06/23/21 13:52	5
Fluoride	0.934	F1	0.500		mg/L			06/23/21 18:26	1
Sulfate	5790		250		mg/L			06/23/21 14:06	50
Total Dissolved Solids (TDS)	9240		100		mg/L			06/09/21 11:48	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-539533/1-A
Matrix: Water
Analysis Batch: 539828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 539533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		06/12/21 12:00	06/13/21 19:12	1
Calcium	0.4424		0.200		mg/L		06/12/21 12:00	06/13/21 19:12	1

Lab Sample ID: LCS 280-539533/2-A
Matrix: Water
Analysis Batch: 539828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 539533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.9847		mg/L		98	86 - 110
Calcium	50.0	49.89		mg/L		100	90 - 111

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 539828

Client Sample ID: MW-36B
Prep Type: Total Recoverable
Prep Batch: 539533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.102		1.00	1.125		mg/L		102	87 - 113
Calcium	142	B	50.0	184.4		mg/L		84	48 - 153

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 539828

Client Sample ID: MW-36B
Prep Type: Total Recoverable
Prep Batch: 539533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	0.102		1.00	1.122		mg/L		102	87 - 113	0	20
Calcium	142	B	50.0	184.3		mg/L		84	48 - 153	0	20

Lab Sample ID: MB 280-539534/1-A
Matrix: Water
Analysis Batch: 539828

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 539534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		06/12/21 12:00	06/13/21 20:44	1
Calcium	ND		0.200		mg/L		06/12/21 12:00	06/13/21 20:44	1

Lab Sample ID: LCS 280-539534/2-A
Matrix: Water
Analysis Batch: 539828

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 539534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.9902		mg/L		99	86 - 110
Calcium	50.0	49.32		mg/L		99	90 - 111

Lab Sample ID: 280-149466-14 MS
Matrix: Water
Analysis Batch: 539828

Client Sample ID: MW-14BR
Prep Type: Total Recoverable
Prep Batch: 539534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.152		1.00	1.198		mg/L		105	87 - 113
Calcium	173		50.0	226.9		mg/L		108	48 - 153

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6010C - Metals (ICP)

Lab Sample ID: 280-149466-14 MSD
Matrix: Water
Analysis Batch: 539828

Client Sample ID: MW-14BR
Prep Type: Total Recoverable
Prep Batch: 539534

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	0.152		1.00	1.188		mg/L		104	87 - 113	1	20
Calcium	173		50.0	221.5		mg/L		97	48 - 153	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-489804/1-A
Matrix: Water
Analysis Batch: 491521

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 489804

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/18/21 19:20	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:20	1
Barium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:20	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:20	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:20	1
Chromium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:20	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:20	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/18/21 19:20	1
Lithium	ND		0.00800		mg/L		06/09/21 14:00	06/18/21 19:20	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/18/21 19:20	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/18/21 19:20	1
Thallium	ND	^+	0.00100		mg/L		06/09/21 14:00	06/18/21 19:20	1

Lab Sample ID: LCS 240-489804/2-A
Matrix: Water
Analysis Batch: 491521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 489804

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Antimony	0.100	0.1042		mg/L		104	80 - 120
Arsenic	1.00	1.004		mg/L		100	80 - 120
Barium	1.00	1.055		mg/L		105	80 - 120
Beryllium	0.500	0.5073		mg/L		101	80 - 120
Cadmium	0.500	0.5034		mg/L		101	80 - 120
Chromium	0.500	0.5251		mg/L		105	80 - 120
Cobalt	0.500	0.5118		mg/L		102	80 - 120
Lead	0.500	0.5327		mg/L		107	80 - 120
Lithium	0.500	0.5079		mg/L		102	80 - 120
Molybdenum	0.500	0.4998		mg/L		100	80 - 120
Selenium	1.00	0.9640		mg/L		96	80 - 120
Thallium	1.00	1.036	^+	mg/L		104	80 - 120

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 491521

Client Sample ID: MW-36B
Prep Type: Total Recoverable
Prep Batch: 489804

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Antimony	ND		0.100	0.1049		mg/L		105	75 - 125
Arsenic	ND		1.00	1.031		mg/L		103	75 - 125
Barium	0.0624		1.00	1.103		mg/L		104	75 - 125

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 491521

Client Sample ID: MW-36B
Prep Type: Total Recoverable
Prep Batch: 489804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		0.500	0.4944		mg/L		99	75 - 125
Cadmium	ND		0.500	0.4999		mg/L		100	75 - 125
Chromium	ND		0.500	0.5085		mg/L		101	75 - 125
Cobalt	ND		0.500	0.5077		mg/L		101	75 - 125
Lead	ND		0.500	0.5181		mg/L		104	75 - 125
Lithium	0.0329		0.500	0.5313		mg/L		100	75 - 125
Molybdenum	ND		0.500	0.5167		mg/L		102	75 - 125
Selenium	0.00627		1.00	0.9677		mg/L		96	75 - 125
Thallium	ND	^+	1.00	1.009	^+	mg/L		101	75 - 125

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 491521

Client Sample ID: MW-36B
Prep Type: Total Recoverable
Prep Batch: 489804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.1102		mg/L		110	75 - 125	5	20
Arsenic	ND		1.00	1.066		mg/L		106	75 - 125	3	20
Barium	0.0624		1.00	1.176		mg/L		111	75 - 125	6	20
Beryllium	ND		0.500	0.5126		mg/L		103	75 - 125	4	20
Cadmium	ND		0.500	0.5229		mg/L		105	75 - 125	5	20
Chromium	ND		0.500	0.5295		mg/L		106	75 - 125	4	20
Cobalt	ND		0.500	0.5266		mg/L		105	75 - 125	4	20
Lead	ND		0.500	0.5406		mg/L		108	75 - 125	4	20
Lithium	0.0329		0.500	0.5466		mg/L		103	75 - 125	3	20
Molybdenum	ND		0.500	0.5417		mg/L		107	75 - 125	5	20
Selenium	0.00627		1.00	1.011		mg/L		101	75 - 125	4	20
Thallium	ND	^+	1.00	1.064	^+	mg/L		106	75 - 125	5	20

Lab Sample ID: MB 240-489805/1-A
Matrix: Water
Analysis Batch: 490161

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 489805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		06/09/21 14:00	06/10/21 11:57	1
Arsenic	ND		0.00500		mg/L		06/09/21 14:00	06/10/21 11:57	1
Barium	ND		0.00500		mg/L		06/09/21 14:00	06/10/21 11:57	1
Beryllium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 11:57	1
Cadmium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 11:57	1
Chromium	ND		0.00200		mg/L		06/09/21 14:00	06/10/21 11:57	1
Cobalt	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 11:57	1
Lead	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 11:57	1
Lithium	ND		0.00800		mg/L		06/09/21 14:00	06/10/21 11:57	1
Molybdenum	ND		0.0100		mg/L		06/09/21 14:00	06/10/21 11:57	1
Selenium	ND		0.00500		mg/L		06/09/21 14:00	06/10/21 11:57	1
Thallium	ND		0.00100		mg/L		06/09/21 14:00	06/10/21 11:57	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-489805/2-A
Matrix: Water
Analysis Batch: 490161

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 489805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.100	0.1029		mg/L		103	80 - 120	
Arsenic	1.00	0.9736		mg/L		97	80 - 120	
Barium	1.00	0.9703		mg/L		97	80 - 120	
Beryllium	0.500	0.4942		mg/L		99	80 - 120	
Cadmium	0.500	0.5018		mg/L		100	80 - 120	
Chromium	0.500	0.5082		mg/L		102	80 - 120	
Cobalt	0.500	0.5130		mg/L		103	80 - 120	
Lead	0.500	0.5190		mg/L		104	80 - 120	
Lithium	0.500	0.5056		mg/L		101	80 - 120	
Molybdenum	0.500	0.4863		mg/L		97	80 - 120	
Selenium	1.00	0.9374		mg/L		94	80 - 120	
Thallium	1.00	1.019		mg/L		102	80 - 120	

Lab Sample ID: 280-149466-21 MS
Matrix: Water
Analysis Batch: 490161

Client Sample ID: MW-38C
Prep Type: Total Recoverable
Prep Batch: 489805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	ND		0.100	0.1050		mg/L		105	75 - 125	
Arsenic	ND		1.00	1.010		mg/L		101	75 - 125	
Barium	0.0465		1.00	1.025		mg/L		98	75 - 125	
Beryllium	ND		0.500	0.4985		mg/L		100	75 - 125	
Cadmium	ND		0.500	0.5064		mg/L		101	75 - 125	
Chromium	ND		0.500	0.5055		mg/L		101	75 - 125	
Cobalt	ND		0.500	0.5148		mg/L		103	75 - 125	
Lead	ND		0.500	0.5238		mg/L		105	75 - 125	
Lithium	0.0232		0.500	0.5328		mg/L		102	75 - 125	
Molybdenum	ND		0.500	0.5111		mg/L		101	75 - 125	
Selenium	0.00608		1.00	0.9484		mg/L		94	75 - 125	
Thallium	ND		1.00	1.034		mg/L		103	75 - 125	

Lab Sample ID: 280-149466-21 MSD
Matrix: Water
Analysis Batch: 490161

Client Sample ID: MW-38C
Prep Type: Total Recoverable
Prep Batch: 489805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
									Limits		RPD	Limit
Antimony	ND		0.100	0.1052		mg/L		105	75 - 125	0	20	
Arsenic	ND		1.00	1.002		mg/L		100	75 - 125	1	20	
Barium	0.0465		1.00	1.029		mg/L		98	75 - 125	0	20	
Beryllium	ND		0.500	0.5019		mg/L		100	75 - 125	1	20	
Cadmium	ND		0.500	0.5104		mg/L		102	75 - 125	1	20	
Chromium	ND		0.500	0.5052		mg/L		101	75 - 125	0	20	
Cobalt	ND		0.500	0.5177		mg/L		104	75 - 125	1	20	
Lead	ND		0.500	0.5252		mg/L		105	75 - 125	0	20	
Lithium	0.0232		0.500	0.5342		mg/L		102	75 - 125	0	20	
Molybdenum	ND		0.500	0.5132		mg/L		101	75 - 125	0	20	
Selenium	0.00608		1.00	0.9533		mg/L		95	75 - 125	1	20	
Thallium	ND		1.00	1.046		mg/L		105	75 - 125	1	20	

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-539057/1-A
Matrix: Water
Analysis Batch: 539623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/11/21 16:00	06/11/21 19:27	1

Lab Sample ID: LCS 280-539057/2-A
Matrix: Water
Analysis Batch: 539623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.005032		mg/L		101	84 - 120

Lab Sample ID: LCSD 280-539057/3-A
Matrix: Water
Analysis Batch: 539623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 539057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00500	0.005064		mg/L		101	84 - 120	1	15

Lab Sample ID: MB 280-539060/1-A
Matrix: Water
Analysis Batch: 540021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		06/15/21 12:51	06/15/21 21:43	1

Lab Sample ID: LCS 280-539060/2-A
Matrix: Water
Analysis Batch: 540021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.005003		mg/L		100	84 - 120

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 540021

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 539060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00500	0.004985		mg/L		100	75 - 125

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 540021

Client Sample ID: MW-36B
Prep Type: Total/NA
Prep Batch: 539060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.004921		mg/L		98	75 - 125	1	20

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-540754/6
Matrix: Water
Analysis Batch: 540754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			06/22/21 14:47	1
Fluoride	ND		0.500		mg/L			06/22/21 14:47	1
Sulfate	ND		5.00		mg/L			06/22/21 14:47	1

Lab Sample ID: MB 280-540754/82
Matrix: Water
Analysis Batch: 540754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			06/23/21 08:31	1
Fluoride	ND		0.500		mg/L			06/23/21 08:31	1
Sulfate	ND		5.00		mg/L			06/23/21 08:31	1

Lab Sample ID: LCS 280-540754/4
Matrix: Water
Analysis Batch: 540754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	99.75		mg/L		100	90 - 110
Fluoride	5.00	5.103		mg/L		102	90 - 110
Sulfate	100	101.7		mg/L		102	90 - 110

Lab Sample ID: LCS 280-540754/80
Matrix: Water
Analysis Batch: 540754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.3		mg/L		100	90 - 110
Fluoride	5.00	5.000		mg/L		100	90 - 110
Sulfate	100	101.7		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-540754/5
Matrix: Water
Analysis Batch: 540754

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.96		mg/L		100	90 - 110	0	10
Fluoride	5.00	5.092		mg/L		102	90 - 110	0	10
Sulfate	100	101.9		mg/L		102	90 - 110	0	10

Lab Sample ID: LCSD 280-540754/81
Matrix: Water
Analysis Batch: 540754

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.6		mg/L		101	90 - 110	0	10
Fluoride	5.00	5.065		mg/L		101	90 - 110	1	10
Sulfate	100	102.1		mg/L		102	90 - 110	0	10

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-540754/3
Matrix: Water
Analysis Batch: 540754

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.458		mg/L		89	50 - 150
Fluoride	0.500	ND		mg/L		86	50 - 150
Sulfate	5.00	ND		mg/L		85	50 - 150

Lab Sample ID: 280-149466-11 MS
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-36B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	45.1		50.0	98.01		mg/L		106	80 - 120
Fluoride	0.589		5.00	4.784		mg/L		84	80 - 120
Sulfate	381	E	50.0	428.3	E 4	mg/L		94	80 - 120

Lab Sample ID: 280-149466-11 MSD
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-36B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	45.1		50.0	98.21		mg/L		106	80 - 120	0	20
Fluoride	0.589		5.00	4.793		mg/L		84	80 - 120	0	20
Sulfate	381	E	50.0	428.3	E 4	mg/L		94	80 - 120	0	20

Lab Sample ID: 280-149466-21 MS
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-38C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	29.5		50.0	83.11		mg/L		107	80 - 120
Fluoride	0.536		5.00	4.652		mg/L		82	80 - 120
Sulfate	223	E	50.0	272.8	E 4	mg/L		100	80 - 120

Lab Sample ID: 280-149466-21 MSD
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-38C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	29.5		50.0	82.64		mg/L		106	80 - 120	1	20
Fluoride	0.536		5.00	4.672		mg/L		83	80 - 120	0	20
Sulfate	223	E	50.0	272.2	E 4	mg/L		99	80 - 120	0	20

Lab Sample ID: 280-149466-11 DU
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-36B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	45.1		45.39		mg/L		0.5	15
Fluoride	0.589		0.5880		mg/L		0.1	15
Sulfate	381	E	381.9	E	mg/L		0.2	15

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-149466-11 DU
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-36B
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Chloride	41.8		41.50		mg/L		0.7	15
Fluoride	ND		ND		mg/L		NC	15
Sulfate	374		370.9		mg/L		1	15

Lab Sample ID: 280-149466-21 DU
Matrix: Water
Analysis Batch: 540754

Client Sample ID: MW-38C
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Chloride	29.5		29.61		mg/L		0.4	15
Fluoride	0.536		0.5426		mg/L		1	15
Sulfate	223	E	223.5	E	mg/L		0.4	15

Lab Sample ID: MB 280-540899/6
Matrix: Water
Analysis Batch: 540899

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	ND		3.00		mg/L			06/23/21 10:35	1
Sulfate	ND		5.00		mg/L			06/23/21 10:35	1

Lab Sample ID: LCS 280-540899/4
Matrix: Water
Analysis Batch: 540899

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	96.67		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-540899/5
Matrix: Water
Analysis Batch: 540899

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	96.77		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-540899/3
Matrix: Water
Analysis Batch: 540899

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	ND		mg/L		88	50 - 150

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-540901/6
Matrix: Water
Analysis Batch: 540901

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			06/23/21 16:47	1
Fluoride	ND		0.500		mg/L			06/23/21 16:47	1
Sulfate	ND		5.00		mg/L			06/23/21 16:47	1

Lab Sample ID: LCS 280-540901/4
Matrix: Water
Analysis Batch: 540901

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.3		mg/L		100	90 - 110
Fluoride	5.00	5.207		mg/L		104	90 - 110
Sulfate	100	100.5		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-540901/5
Matrix: Water
Analysis Batch: 540901

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.3		mg/L		100	90 - 110	0	10
Fluoride	5.00	5.184		mg/L		104	90 - 110	0	10
Sulfate	100	100.3		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-540901/3
Matrix: Water
Analysis Batch: 540901

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.573		mg/L		91	50 - 150
Fluoride	0.500	ND		mg/L		90	50 - 150
Sulfate	5.00	ND		mg/L		86	50 - 150

Lab Sample ID: 280-149466-22 MS
Matrix: Water
Analysis Batch: 540901

Client Sample ID: MW-38B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	361	E	50.0	405.6	E 4	mg/L		90	80 - 120
Fluoride	0.934	F1	5.00	0.8401	F1	mg/L		-2	80 - 120
Sulfate	5130	E	50.0	5071	E 4	mg/L		-116	80 - 120

Lab Sample ID: 280-149466-22 MSD
Matrix: Water
Analysis Batch: 540901

Client Sample ID: MW-38B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	361	E	50.0	410.4	E 4	mg/L		99	80 - 120	1	20
Fluoride	0.934	F1	5.00	0.8261	F1	mg/L		-2	80 - 120	2	20
Sulfate	5130	E	50.0	5069	E 4	mg/L		-121	80 - 120	0	20

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-149466-22 DU
Matrix: Water
Analysis Batch: 540901

Client Sample ID: MW-38B
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	361	E	358.4	E	mg/L		0.7		15
Fluoride	0.934	F1	0.9381		mg/L		0.4		15
Sulfate	5130	E	5094	E	mg/L		0.7		15

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

Lab Sample ID: MB 280-539005/1
Matrix: Water
Analysis Batch: 539005

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids (TDS)	ND		10.0		mg/L			06/08/21 11:48	1

Lab Sample ID: LCS 280-539005/2
Matrix: Water
Analysis Batch: 539005

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 280-149466-19 DU
Matrix: Water
Analysis Batch: 539005

Client Sample ID: MW-49B
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Total Dissolved Solids (TDS)	1010		996.0		mg/L		1		10

Lab Sample ID: MB 280-539180/1
Matrix: Water
Analysis Batch: 539180

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids (TDS)	ND		10.0		mg/L			06/09/21 11:48	1

Lab Sample ID: LCS 280-539180/2
Matrix: Water
Analysis Batch: 539180

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: LCSD 280-539180/3
Matrix: Water
Analysis Batch: 539180

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

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

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Metals

Prep Batch: 489804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total Recoverable	Water	3005A	
280-149466-2	MW-39B	Total Recoverable	Water	3005A	
280-149466-3	MW-42B	Total Recoverable	Water	3005A	
280-149466-4	MW-43B	Total Recoverable	Water	3005A	
280-149466-5	MW-47B	Total Recoverable	Water	3005A	
280-149466-6	MW-46B	Total Recoverable	Water	3005A	
280-149466-7	MW-45B	Total Recoverable	Water	3005A	
280-149466-8	MW-44B	Total Recoverable	Water	3005A	
280-149466-9	MW-37B	Total Recoverable	Water	3005A	
280-149466-10	MW-37B-FD	Total Recoverable	Water	3005A	
280-149466-11	MW-36B	Total Recoverable	Water	3005A	
280-149466-12	MW-41B	Total Recoverable	Water	3005A	
280-149466-13	MW-20B	Total Recoverable	Water	3005A	
280-149466-14	MW-14BR	Total Recoverable	Water	3005A	
280-149466-15	MW-40B	Total Recoverable	Water	3005A	
280-149466-16	FB	Total Recoverable	Water	3005A	
280-149466-17	MW-53B	Total Recoverable	Water	3005A	
280-149466-18	MW-52B	Total Recoverable	Water	3005A	
280-149466-19	MW-49B	Total Recoverable	Water	3005A	
280-149466-20	MW-21B	Total Recoverable	Water	3005A	
MB 240-489804/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-489804/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-149466-11 MS	MW-36B	Total Recoverable	Water	3005A	
280-149466-11 MSD	MW-36B	Total Recoverable	Water	3005A	

Prep Batch: 489805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-21	MW-38C	Total Recoverable	Water	3005A	
280-149466-22	MW-38B	Total Recoverable	Water	3005A	
MB 240-489805/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-489805/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-149466-21 MS	MW-38C	Total Recoverable	Water	3005A	
280-149466-21 MSD	MW-38C	Total Recoverable	Water	3005A	

Analysis Batch: 490161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-21	MW-38C	Total Recoverable	Water	6020A	489805
280-149466-22	MW-38B	Total Recoverable	Water	6020A	489805
MB 240-489805/1-A	Method Blank	Total Recoverable	Water	6020A	489805
LCS 240-489805/2-A	Lab Control Sample	Total Recoverable	Water	6020A	489805
280-149466-21 MS	MW-38C	Total Recoverable	Water	6020A	489805
280-149466-21 MSD	MW-38C	Total Recoverable	Water	6020A	489805

Analysis Batch: 491521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total Recoverable	Water	6020A	489804
280-149466-2	MW-39B	Total Recoverable	Water	6020A	489804
280-149466-3	MW-42B	Total Recoverable	Water	6020A	489804
280-149466-4	MW-43B	Total Recoverable	Water	6020A	489804
280-149466-5	MW-47B	Total Recoverable	Water	6020A	489804
280-149466-6	MW-46B	Total Recoverable	Water	6020A	489804

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Metals (Continued)

Analysis Batch: 491521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-7	MW-45B	Total Recoverable	Water	6020A	489804
280-149466-8	MW-44B	Total Recoverable	Water	6020A	489804
280-149466-9	MW-37B	Total Recoverable	Water	6020A	489804
280-149466-10	MW-37B-FD	Total Recoverable	Water	6020A	489804
280-149466-11	MW-36B	Total Recoverable	Water	6020A	489804
280-149466-12	MW-41B	Total Recoverable	Water	6020A	489804
280-149466-13	MW-20B	Total Recoverable	Water	6020A	489804
280-149466-14	MW-14BR	Total Recoverable	Water	6020A	489804
280-149466-15	MW-40B	Total Recoverable	Water	6020A	489804
280-149466-16	FB	Total Recoverable	Water	6020A	489804
280-149466-17	MW-53B	Total Recoverable	Water	6020A	489804
280-149466-18	MW-52B	Total Recoverable	Water	6020A	489804
280-149466-19	MW-49B	Total Recoverable	Water	6020A	489804
280-149466-20	MW-21B	Total Recoverable	Water	6020A	489804
MB 240-489804/1-A	Method Blank	Total Recoverable	Water	6020A	489804
LCS 240-489804/2-A	Lab Control Sample	Total Recoverable	Water	6020A	489804
280-149466-11 MS	MW-36B	Total Recoverable	Water	6020A	489804
280-149466-11 MSD	MW-36B	Total Recoverable	Water	6020A	489804

Analysis Batch: 491754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-17	MW-53B	Total Recoverable	Water	6020A	489804
280-149466-18	MW-52B	Total Recoverable	Water	6020A	489804
280-149466-19	MW-49B	Total Recoverable	Water	6020A	489804
280-149466-20	MW-21B	Total Recoverable	Water	6020A	489804

Prep Batch: 539057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	7470A	
280-149466-2	MW-39B	Total/NA	Water	7470A	
MB 280-539057/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-539057/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 280-539057/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 539060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-3	MW-42B	Total/NA	Water	7470A	
280-149466-4	MW-43B	Total/NA	Water	7470A	
280-149466-5	MW-47B	Total/NA	Water	7470A	
280-149466-6	MW-46B	Total/NA	Water	7470A	
280-149466-7	MW-45B	Total/NA	Water	7470A	
280-149466-8	MW-44B	Total/NA	Water	7470A	
280-149466-9	MW-37B	Total/NA	Water	7470A	
280-149466-10	MW-37B-FD	Total/NA	Water	7470A	
280-149466-11	MW-36B	Total/NA	Water	7470A	
280-149466-12	MW-41B	Total/NA	Water	7470A	
280-149466-13	MW-20B	Total/NA	Water	7470A	
280-149466-14	MW-14BR	Total/NA	Water	7470A	
280-149466-15	MW-40B	Total/NA	Water	7470A	
280-149466-16	FB	Total/NA	Water	7470A	
280-149466-17	MW-53B	Total/NA	Water	7470A	

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Metals (Continued)

Prep Batch: 539060 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-18	MW-52B	Total/NA	Water	7470A	
280-149466-19	MW-49B	Total/NA	Water	7470A	
280-149466-20	MW-21B	Total/NA	Water	7470A	
280-149466-21	MW-38C	Total/NA	Water	7470A	
280-149466-22	MW-38B	Total/NA	Water	7470A	
MB 280-539060/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-539060/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-149466-11 MS	MW-36B	Total/NA	Water	7470A	
280-149466-11 MSD	MW-36B	Total/NA	Water	7470A	

Prep Batch: 539533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total Recoverable	Water	3005A	
280-149466-2	MW-39B	Total Recoverable	Water	3005A	
280-149466-3	MW-42B	Total Recoverable	Water	3005A	
280-149466-4	MW-43B	Total Recoverable	Water	3005A	
280-149466-5	MW-47B	Total Recoverable	Water	3005A	
280-149466-6	MW-46B	Total Recoverable	Water	3005A	
280-149466-7	MW-45B	Total Recoverable	Water	3005A	
280-149466-8	MW-44B	Total Recoverable	Water	3005A	
280-149466-9	MW-37B	Total Recoverable	Water	3005A	
280-149466-10	MW-37B-FD	Total Recoverable	Water	3005A	
280-149466-11	MW-36B	Total Recoverable	Water	3005A	
280-149466-12	MW-41B	Total Recoverable	Water	3005A	
280-149466-13	MW-20B	Total Recoverable	Water	3005A	
MB 280-539533/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-539533/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-149466-11 MS	MW-36B	Total Recoverable	Water	3005A	
280-149466-11 MSD	MW-36B	Total Recoverable	Water	3005A	

Prep Batch: 539534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-14	MW-14BR	Total Recoverable	Water	3005A	
280-149466-15	MW-40B	Total Recoverable	Water	3005A	
280-149466-16	FB	Total Recoverable	Water	3005A	
280-149466-17	MW-53B	Total Recoverable	Water	3005A	
280-149466-18	MW-52B	Total Recoverable	Water	3005A	
280-149466-19	MW-49B	Total Recoverable	Water	3005A	
280-149466-20	MW-21B	Total Recoverable	Water	3005A	
280-149466-21	MW-38C	Total Recoverable	Water	3005A	
280-149466-22	MW-38B	Total Recoverable	Water	3005A	
MB 280-539534/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-539534/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-149466-14 MS	MW-14BR	Total Recoverable	Water	3005A	
280-149466-14 MSD	MW-14BR	Total Recoverable	Water	3005A	

Analysis Batch: 539623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	7470A	539057
280-149466-2	MW-39B	Total/NA	Water	7470A	539057
MB 280-539057/1-A	Method Blank	Total/NA	Water	7470A	539057

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Metals (Continued)

Analysis Batch: 539623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-539057/2-A	Lab Control Sample	Total/NA	Water	7470A	539057
LCSD 280-539057/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	539057

Analysis Batch: 539828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total Recoverable	Water	6010C	539533
280-149466-2	MW-39B	Total Recoverable	Water	6010C	539533
280-149466-3	MW-42B	Total Recoverable	Water	6010C	539533
280-149466-4	MW-43B	Total Recoverable	Water	6010C	539533
280-149466-5	MW-47B	Total Recoverable	Water	6010C	539533
280-149466-6	MW-46B	Total Recoverable	Water	6010C	539533
280-149466-7	MW-45B	Total Recoverable	Water	6010C	539533
280-149466-8	MW-44B	Total Recoverable	Water	6010C	539533
280-149466-9	MW-37B	Total Recoverable	Water	6010C	539533
280-149466-10	MW-37B-FD	Total Recoverable	Water	6010C	539533
280-149466-11	MW-36B	Total Recoverable	Water	6010C	539533
280-149466-12	MW-41B	Total Recoverable	Water	6010C	539533
280-149466-13	MW-20B	Total Recoverable	Water	6010C	539533
280-149466-14	MW-14BR	Total Recoverable	Water	6010C	539534
280-149466-15	MW-40B	Total Recoverable	Water	6010C	539534
280-149466-16	FB	Total Recoverable	Water	6010C	539534
280-149466-17	MW-53B	Total Recoverable	Water	6010C	539534
280-149466-18	MW-52B	Total Recoverable	Water	6010C	539534
280-149466-19	MW-49B	Total Recoverable	Water	6010C	539534
280-149466-20	MW-21B	Total Recoverable	Water	6010C	539534
280-149466-21	MW-38C	Total Recoverable	Water	6010C	539534
280-149466-22	MW-38B	Total Recoverable	Water	6010C	539534
MB 280-539533/1-A	Method Blank	Total Recoverable	Water	6010C	539533
MB 280-539534/1-A	Method Blank	Total Recoverable	Water	6010C	539534
LCS 280-539533/2-A	Lab Control Sample	Total Recoverable	Water	6010C	539533
LCS 280-539534/2-A	Lab Control Sample	Total Recoverable	Water	6010C	539534
280-149466-11 MS	MW-36B	Total Recoverable	Water	6010C	539533
280-149466-11 MSD	MW-36B	Total Recoverable	Water	6010C	539533
280-149466-14 MS	MW-14BR	Total Recoverable	Water	6010C	539534
280-149466-14 MSD	MW-14BR	Total Recoverable	Water	6010C	539534

Analysis Batch: 540021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-3	MW-42B	Total/NA	Water	7470A	539060
280-149466-4	MW-43B	Total/NA	Water	7470A	539060
280-149466-5	MW-47B	Total/NA	Water	7470A	539060
280-149466-6	MW-46B	Total/NA	Water	7470A	539060
280-149466-7	MW-45B	Total/NA	Water	7470A	539060
280-149466-8	MW-44B	Total/NA	Water	7470A	539060
280-149466-9	MW-37B	Total/NA	Water	7470A	539060
280-149466-10	MW-37B-FD	Total/NA	Water	7470A	539060
280-149466-11	MW-36B	Total/NA	Water	7470A	539060
280-149466-12	MW-41B	Total/NA	Water	7470A	539060
280-149466-13	MW-20B	Total/NA	Water	7470A	539060
280-149466-14	MW-14BR	Total/NA	Water	7470A	539060
280-149466-15	MW-40B	Total/NA	Water	7470A	539060

Eurofins TestAmerica, Denver

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Metals (Continued)

Analysis Batch: 540021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-16	FB	Total/NA	Water	7470A	539060
280-149466-17	MW-53B	Total/NA	Water	7470A	539060
280-149466-18	MW-52B	Total/NA	Water	7470A	539060
280-149466-19	MW-49B	Total/NA	Water	7470A	539060
280-149466-20	MW-21B	Total/NA	Water	7470A	539060
280-149466-21	MW-38C	Total/NA	Water	7470A	539060
280-149466-22	MW-38B	Total/NA	Water	7470A	539060
MB 280-539060/1-A	Method Blank	Total/NA	Water	7470A	539060
LCS 280-539060/2-A	Lab Control Sample	Total/NA	Water	7470A	539060
280-149466-11 MS	MW-36B	Total/NA	Water	7470A	539060
280-149466-11 MSD	MW-36B	Total/NA	Water	7470A	539060

General Chemistry

Analysis Batch: 539005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	SM 2540C	
280-149466-2	MW-39B	Total/NA	Water	SM 2540C	
280-149466-3	MW-42B	Total/NA	Water	SM 2540C	
280-149466-4	MW-43B	Total/NA	Water	SM 2540C	
280-149466-5	MW-47B	Total/NA	Water	SM 2540C	
280-149466-6	MW-46B	Total/NA	Water	SM 2540C	
280-149466-7	MW-45B	Total/NA	Water	SM 2540C	
280-149466-8	MW-44B	Total/NA	Water	SM 2540C	
280-149466-9	MW-37B	Total/NA	Water	SM 2540C	
280-149466-10	MW-37B-FD	Total/NA	Water	SM 2540C	
280-149466-11	MW-36B	Total/NA	Water	SM 2540C	
280-149466-12	MW-41B	Total/NA	Water	SM 2540C	
280-149466-13	MW-20B	Total/NA	Water	SM 2540C	
280-149466-14	MW-14BR	Total/NA	Water	SM 2540C	
280-149466-15	MW-40B	Total/NA	Water	SM 2540C	
280-149466-16	FB	Total/NA	Water	SM 2540C	
280-149466-17	MW-53B	Total/NA	Water	SM 2540C	
280-149466-18	MW-52B	Total/NA	Water	SM 2540C	
280-149466-19	MW-49B	Total/NA	Water	SM 2540C	
MB 280-539005/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-539005/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-149466-19 DU	MW-49B	Total/NA	Water	SM 2540C	

Analysis Batch: 539180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-20	MW-21B	Total/NA	Water	SM 2540C	
280-149466-21	MW-38C	Total/NA	Water	SM 2540C	
280-149466-22	MW-38B	Total/NA	Water	SM 2540C	
MB 280-539180/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-539180/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-539180/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 540754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	9056A	

Eurofins TestAmerica, Denver

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry (Continued)

Analysis Batch: 540754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-1	MW-32B	Total/NA	Water	9056A	
280-149466-2	MW-39B	Total/NA	Water	9056A	
280-149466-2	MW-39B	Total/NA	Water	9056A	
280-149466-3	MW-42B	Total/NA	Water	9056A	
280-149466-3	MW-42B	Total/NA	Water	9056A	
280-149466-4	MW-43B	Total/NA	Water	9056A	
280-149466-4	MW-43B	Total/NA	Water	9056A	
280-149466-5	MW-47B	Total/NA	Water	9056A	
280-149466-5	MW-47B	Total/NA	Water	9056A	
280-149466-6	MW-46B	Total/NA	Water	9056A	
280-149466-6	MW-46B	Total/NA	Water	9056A	
280-149466-7	MW-45B	Total/NA	Water	9056A	
280-149466-7	MW-45B	Total/NA	Water	9056A	
280-149466-8	MW-44B	Total/NA	Water	9056A	
280-149466-8	MW-44B	Total/NA	Water	9056A	
280-149466-9	MW-37B	Total/NA	Water	9056A	
280-149466-9	MW-37B	Total/NA	Water	9056A	
280-149466-10	MW-37B-FD	Total/NA	Water	9056A	
280-149466-10	MW-37B-FD	Total/NA	Water	9056A	
280-149466-11	MW-36B	Total/NA	Water	9056A	
280-149466-11	MW-36B	Total/NA	Water	9056A	
280-149466-12	MW-41B	Total/NA	Water	9056A	
280-149466-12	MW-41B	Total/NA	Water	9056A	
280-149466-13	MW-20B	Total/NA	Water	9056A	
280-149466-13	MW-20B	Total/NA	Water	9056A	
280-149466-14	MW-14BR	Total/NA	Water	9056A	
280-149466-14	MW-14BR	Total/NA	Water	9056A	
280-149466-15	MW-40B	Total/NA	Water	9056A	
280-149466-16	FB	Total/NA	Water	9056A	
280-149466-17	MW-53B	Total/NA	Water	9056A	
280-149466-17	MW-53B	Total/NA	Water	9056A	
280-149466-18	MW-52B	Total/NA	Water	9056A	
280-149466-18	MW-52B	Total/NA	Water	9056A	
280-149466-19	MW-49B	Total/NA	Water	9056A	
280-149466-19	MW-49B	Total/NA	Water	9056A	
280-149466-20	MW-21B	Total/NA	Water	9056A	
280-149466-20	MW-21B	Total/NA	Water	9056A	
280-149466-21	MW-38C	Total/NA	Water	9056A	
280-149466-22	MW-38B	Total/NA	Water	9056A	
280-149466-22	MW-38B	Total/NA	Water	9056A	
MB 280-540754/6	Method Blank	Total/NA	Water	9056A	
MB 280-540754/82	Method Blank	Total/NA	Water	9056A	
LCS 280-540754/4	Lab Control Sample	Total/NA	Water	9056A	
LCS 280-540754/80	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-540754/5	Lab Control Sample Dup	Total/NA	Water	9056A	
LCSD 280-540754/81	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-540754/3	Lab Control Sample	Total/NA	Water	9056A	
280-149466-11 MS	MW-36B	Total/NA	Water	9056A	
280-149466-11 MSD	MW-36B	Total/NA	Water	9056A	
280-149466-21 MS	MW-38C	Total/NA	Water	9056A	
280-149466-21 MSD	MW-38C	Total/NA	Water	9056A	

Eurofins TestAmerica, Denver

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

General Chemistry (Continued)

Analysis Batch: 540754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-11 DU	MW-36B	Total/NA	Water	9056A	
280-149466-11 DU	MW-36B	Total/NA	Water	9056A	
280-149466-21 DU	MW-38C	Total/NA	Water	9056A	

Analysis Batch: 540899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-21	MW-38C	Total/NA	Water	9056A	
MB 280-540899/6	Method Blank	Total/NA	Water	9056A	
LCS 280-540899/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-540899/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-540899/3	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 540901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-149466-22	MW-38B	Total/NA	Water	9056A	
MB 280-540901/6	Method Blank	Total/NA	Water	9056A	
LCS 280-540901/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-540901/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-540901/3	Lab Control Sample	Total/NA	Water	9056A	
280-149466-22 MS	MW-38B	Total/NA	Water	9056A	
280-149466-22 MSD	MW-38B	Total/NA	Water	9056A	
280-149466-22 DU	MW-38B	Total/NA	Water	9056A	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-32B

Lab Sample ID: 280-149466-1

Date Collected: 06/02/21 14:13

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:19	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:41	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539057	06/11/21 16:00	NK	TAL DEN
Total/NA	Analysis	7470A		1			539623	06/11/21 20:27	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/22/21 23:39	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/22/21 23:53	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-39B

Lab Sample ID: 280-149466-2

Date Collected: 06/02/21 15:40

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:23	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:44	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539057	06/11/21 16:00	NK	TAL DEN
Total/NA	Analysis	7470A		1			539623	06/11/21 20:30	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 00:07	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 00:21	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-42B

Lab Sample ID: 280-149466-3

Date Collected: 06/03/21 11:45

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:26	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:47	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 21:53	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 00:35	JMB	TAL DEN
Total/NA	Analysis	9056A		10	10 mL	10 mL	540754	06/23/21 00:49	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-43B

Lab Sample ID: 280-149466-4

Date Collected: 06/03/21 12:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:30	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:49	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 21:55	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 01:03	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 01:17	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-47B

Lab Sample ID: 280-149466-5

Date Collected: 06/03/21 13:16

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:34	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:57	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 21:58	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 01:31	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 02:13	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-46B

Lab Sample ID: 280-149466-6

Date Collected: 06/03/21 14:09

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:37	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:59	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:01	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 02:27	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 02:41	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-45B

Lab Sample ID: 280-149466-7

Date Collected: 06/03/21 15:03

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:41	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:02	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:03	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 02:55	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 03:09	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-44B

Lab Sample ID: 280-149466-8

Date Collected: 06/03/21 15:37

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 19:44	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:04	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:06	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 03:23	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 03:37	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-37B

Lab Sample ID: 280-149466-9

Date Collected: 06/03/21 16:17

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:02	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:07	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:08	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 03:51	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 04:05	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-37B-FD

Lab Sample ID: 280-149466-10

Date Collected: 06/03/21 16:17

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:05	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:09	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:11	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 04:19	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 05:01	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-36B

Lab Sample ID: 280-149466-11

Date Collected: 06/03/21 16:58

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:09	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 19:30	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:13	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 05:15	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 06:11	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-41B

Lab Sample ID: 280-149466-12

Date Collected: 06/03/21 17:52

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:23	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:12	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:26	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 07:07	JMB	TAL DEN
Total/NA	Analysis	9056A		10	10 mL	10 mL	540754	06/23/21 07:49	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-20B

Lab Sample ID: 280-149466-13

Date Collected: 06/03/21 18:23

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539533	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:27	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:14	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:29	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 08:45	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 08:59	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-14BR

Lab Sample ID: 280-149466-14

Date Collected: 06/03/21 19:00

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 20:51	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:17	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:31	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 09:13	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 09:27	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-40B

Lab Sample ID: 280-149466-15

Date Collected: 06/04/21 09:14

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:05	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:19	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:34	MAB	TAL DEN
Total/NA	Analysis	9056A		2	10 mL	10 mL	540754	06/23/21 09:41	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: FB

Lab Sample ID: 280-149466-16

Date Collected: 06/04/21 09:45

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:09	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:27	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:36	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 09:54	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-53B

Lab Sample ID: 280-149466-17

Date Collected: 06/04/21 10:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:26	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:29	DTN	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491754	06/21/21 20:07	DSH	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:39	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 10:36	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 10:50	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-52B

Lab Sample ID: 280-149466-18

Date Collected: 06/04/21 12:18

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:29	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:32	DTN	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491754	06/21/21 20:09	DSH	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:41	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 11:04	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 11:18	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-49B

Date Collected: 06/04/21 13:59

Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:33	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:34	DTN	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491754	06/21/21 20:12	DSH	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:44	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 12:00	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 12:14	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539005	06/08/21 11:48	LRB	TAL DEN

Client Sample ID: MW-21B

Date Collected: 06/04/21 15:00

Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:37	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491521	06/18/21 20:37	DTN	TAL CAN
Total Recoverable	Prep	3005A			50 mL	50 mL	489804	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			491754	06/21/21 20:14	DSH	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:46	MAB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 12:28	JMB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 12:42	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	539180	06/09/21 11:48	LRB	TAL DEN

Client Sample ID: MW-38C

Date Collected: 06/04/21 15:28

Date Received: 06/05/21 08:05

Lab Sample ID: 280-149466-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:40	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489805	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			490161	06/10/21 15:43	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:54	MAB	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	540899	06/23/21 17:50	JMB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540754	06/23/21 12:56	JMB	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	539180	06/09/21 11:48	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Client Sample ID: MW-38B

Lab Sample ID: 280-149466-22

Date Collected: 06/04/21 16:21

Matrix: Water

Date Received: 06/05/21 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	539534	06/12/21 12:00	NK	TAL DEN
Total Recoverable	Analysis	6010C		1			539828	06/13/21 21:44	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	489805	06/09/21 14:00	MRL	TAL CAN
Total Recoverable	Analysis	6020A		1			490161	06/10/21 15:59	DTN	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	539060	06/15/21 12:51	MAB	TAL DEN
Total/NA	Analysis	7470A		1			540021	06/15/21 22:57	MAB	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	540754	06/23/21 13:52	JMB	TAL DEN
Total/NA	Analysis	9056A		50	10 mL	10 mL	540754	06/23/21 14:06	JMB	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	540901	06/23/21 18:26	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	539180	06/09/21 11:48	LRB	TAL DEN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100



Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2021

Job ID: 280-149466-2

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025-011	01-08-22

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record



Environment Testing
 America

Client Information		Lab PM: McEntee, Patrick J		Carrier Tracking Note(s)		COC No: 280-109364-31772.1											
Client Contact: Ms. Katie Abbott		E-Mail: Patrick.McEntee@Eurofinset.com		State of Origin:		Page:											
Company: AECOM Technical Services Inc.		PWSID:		Analysis Requested		Job #:											
Address: 6200 S. Quebec Street		Due Date Requested:		Perform MS/MSD (Yes or No)		Preservation Codes:											
City: Greenwood Village		TAT Requested (days):		6010C, 7470A		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)											
State, Zip: CO, 80111		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No)		Other:											
Phone:		PO # 127030		9056A, 28D - (MOD) Copy Analytes		Total Number of containers											
Email: katie.abbott@aecom.com		WO #: AECOM Project# 60632474		2540C, Calcd - Local Method		Special Instructions/Note:											
Project Name: CCR - Basin Electric 2021		Project #: 28020759		9620A - (MOD) 13 Metals													
Site:		SSOW#:		9315_Ra226 - Standard Target List													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-water, A, M)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, Calcd - Local Method	9056A, 28D - (MOD) Copy Analytes	6020A - (MOD) 13 Metals	9315_Ra226 - Standard Target List	Analysis Requested	Job #:	Carrier Tracking Note(s)	COC No:	
MW-32B	6/2/21	1413	G	Water		X	X	X	X	X	X	X				280-109364-31772.1	
MW-34B	6/2/21	1540	G	Water		X	X	X	X	X	X	X					
MW-42B	6/3/21	1145	G	Water		X	X	X	X	X	X	X					
MW-43B	6/3/21	1218	G	Water		X	X	X	X	X	X	X					
MW-47B	6/3/21	1316	G	Water		X	X	X	X	X	X	X					
MW-46B	6/3/21	1409	G	Water		X	X	X	X	X	X	X					
MW-45B	6/2/21	1503	G	Water		X	X	X	X	X	X	X					
MW-44B	6/3/21	1537	G	Water		X	X	X	X	X	X	X					
MW-37B	6/3/21	1617	G	Water		X	X	X	X	X	X	X					
MW-37B-FD	6/3/21	1617	G	Water		X	X	X	X	X	X	X					
MW-36B	6/3/21	1658	G	Water		X	X	X	X	X	X	X					
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Method of Shipment:		Date/Time:		Date/Time:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Relinquished by: [Signature]		Date/Time: 6/4/21 20:00		Company: AECOM		Relinquished by: [Signature]		Date/Time: 6/4/21 20:00		Company: AECOM	
Relinquished by: [Signature]		Date/Time: 6/5/21 8:05		Company: AECOM		Relinquished by: [Signature]		Date/Time: 6/5/21 8:05		Company: AECOM		Relinquished by: [Signature]		Date/Time: 6/5/21 8:05		Company: AECOM	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) C and Other Remarks: 2.3 1.0 2.6 2.8 3.4 12.6 4.0 4.9		Ver: 01/16/2019											



Chain of Custody Record



Environment Testing
 America

Client Information		Lab PM: McEntee, Patrick J		Carrier Tracking No(s): 280-109364-31772.1	
Client Contact: Ms. Katie Abbott		E-Mail: Patrick.McEntee@Eurofinset.com		Page: _____	
Company: AECOM Technical Services Inc.		PWSID: _____		Job #: _____	
Address: 6200 S. Quebec Street		Due Date Requested: _____		Preservation Codes:	
City: Greenwood Village		TAT Requested (days): _____		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____	
State, Zip: CO, 80111		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: _____		PO # 127030		Total Number of containers: _____	
Email: katie.abbott@aecom.com		WO # AECOM Project# 60632474		Special Instructions/Note: _____	
Project Name: CCR - Basin Electric 2021		Project #: 28020759		Analysis Requested	
Site: _____		SSOW#: _____		<input type="checkbox"/> 9315_Raz26 - Standard Target List <input type="checkbox"/> 6020A - (MOD) 13 Metals <input type="checkbox"/> 9056A_28D - (MOD) Copy Analyses <input type="checkbox"/> 2540C_Calcd - Local Method <input type="checkbox"/> 6010C_7470A	
Sample Identification		Field Filtered Sample (Yes or No)		Performance MS/MSD (Yes or No)	
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, A=AM)	Field Filtered Sample (Yes or No)
MW-41B	6/3/21	1753	G	Water	<input checked="" type="checkbox"/>
MW-20B	6/3/21	1823	G	Water	<input checked="" type="checkbox"/>
MW-148B	6/3/21	1900	G	Water	<input checked="" type="checkbox"/>
MW-40B	6/4/21	0914	G	Water	<input checked="" type="checkbox"/>
FB	6/4/21	0945	G	Water	<input checked="" type="checkbox"/>
MW-53B	6/4/21	1018	G	Water	<input checked="" type="checkbox"/>
MW-52B	6/4/21	1218	G	Water	<input checked="" type="checkbox"/>
MW-49B	6/4/21	1329	G	Water	<input checked="" type="checkbox"/>
MW-210	6/4/21	1500	G	Water	<input checked="" type="checkbox"/>
MW-38C	6/4/21	1528	G	Water	<input checked="" type="checkbox"/>
MW-38D	6/4/21	1621	G	Water	<input checked="" type="checkbox"/>
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		6/4/21 2006		Company: AECOM	
Relinquished by: <i>[Signature]</i>		6/5/21 8:05		Company: AECOM	
Relinquished by: <i>[Signature]</i>		6/5/21 8:05		Company: AECOM	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: McEntee, Patrick J	Carrier Tracking No(s): 280-571770-2																																																												
Client Contact: Shipping/Receiving		E-Mail: Patrick.McEntee@Eurofins.com	Page: Page 2 of 3																																																												
Company: TestAmerica Laboratories, Inc.		State of Origin: Colorado	Job #: 280-149466-2																																																												
Address: 4101 Shuffel Street NW, North Canton, OH, 44720		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane, N - None, O - AsNaO2, P - Na2O/S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)																																																													
Due Date Requested: 7/6/2021		Accreditations Required (See note): NELAP - Oregon																																																													
TAT Requested (days):		Analysis Requested																																																													
PO #:	WO #:	Field Filtered Sample (Yes or No)	6020A/3005A (MOD) 13 Metals																																																												
Project #: 28020759	SSOW#:	Perform M/MSD (Yes or No)																																																													
<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Seawater, O-wastewater, BIR-Tissue, Air, etc)</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-37B-FD (280-149466-10)</td> <td>6/3/21</td> <td>16:17 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-36B (280-149466-11)</td> <td>6/3/21</td> <td>16:58 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-36B (280-149466-11MS)</td> <td>6/3/21</td> <td>16:58 Mountain</td> <td>MS</td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-36B (280-149466-11MSD)</td> <td>6/3/21</td> <td>16:58 Mountain</td> <td>MSD</td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-41B (280-149466-12)</td> <td>6/3/21</td> <td>17:52 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-20B (280-149466-13)</td> <td>6/3/21</td> <td>18:23 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-14BR (280-149466-14)</td> <td>6/3/21</td> <td>19:00 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>MW-40B (280-149466-15)</td> <td>6/4/21</td> <td>09:14 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> <tr> <td>FB (280-149466-16)</td> <td>6/4/21</td> <td>09:45 Mountain</td> <td></td> <td>Water</td> <td>Use Collision Cell</td> </tr> </tbody> </table>				Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, O-wastewater, BIR-Tissue, Air, etc)	Special Instructions/Note:	MW-37B-FD (280-149466-10)	6/3/21	16:17 Mountain		Water	Use Collision Cell	MW-36B (280-149466-11)	6/3/21	16:58 Mountain		Water	Use Collision Cell	MW-36B (280-149466-11MS)	6/3/21	16:58 Mountain	MS	Water	Use Collision Cell	MW-36B (280-149466-11MSD)	6/3/21	16:58 Mountain	MSD	Water	Use Collision Cell	MW-41B (280-149466-12)	6/3/21	17:52 Mountain		Water	Use Collision Cell	MW-20B (280-149466-13)	6/3/21	18:23 Mountain		Water	Use Collision Cell	MW-14BR (280-149466-14)	6/3/21	19:00 Mountain		Water	Use Collision Cell	MW-40B (280-149466-15)	6/4/21	09:14 Mountain		Water	Use Collision Cell	FB (280-149466-16)	6/4/21	09:45 Mountain		Water	Use Collision Cell
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<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Paul Wainwright</i> Date/Time: 6-7-21 1340 Company: <i>BRO TA</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</p> <p>Relinquished by: <i>Paul Wainwright</i> Date/Time: 6-8-21 1500 Company: <i>ETA</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>																																																															
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements: _____</p> <p>Method of Shipment: _____</p>																																																															

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

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : _____
Canton Facility

Client ETA Site Name _____ Cooler unpacked by: Matt
Cooler Received on 6-8-21 Opened on 6-8-21
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # 17 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 16.4 °C Corrected Cooler Temp. 16.3 °C
IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-149466-2

Login Number: 149466

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Lee, Jerry

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153860-1
Client Project/Site: CCR - Basin Electric 2020 - LRS

For:
AECOM Technical Services Inc.
6200 S. Quebec Street
Greenwood Village, Colorado 80111

Attn: Ms. Katie Abbott



Authorized for release by:
11/19/2021 4:34:44 AM

Patrick McEntee, Client Service Manager
(303)736-0107
Patrick.McEntee@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Job ID: 280-153860-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: CCR - Basin Electric 2020 - LRS

Report Number: 280-153860-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/7/2021 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.4° C, 1.4° C, 1.6° C, 1.8° C, 2.3° C, 2.3° C, 2.4° C and 4.1° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 280-153860-18. The sample time on the containers is 10:20, while the COC lists 09:20.

The radiochemical analysis requested on the COC is reported under 280-153860-2. All other analysis is reported under 280-153860-2. 280-153860-1, 280-153860-2, 280-153860-3, 280-153860-4, 280-153860-5, 280-153860-6, 280-153860-7, 280-153860-7[MS], 280-153860-7[MSD], 280-153860-8, 280-153860-9, 280-153860-10, 280-153860-11, 280-153860-12, 280-153860-13, 280-153860-14, 280-153860-15, 280-153860-16, 280-153860-17, 280-153860-18, 280-153860-19, 280-153860-20 and 280-153860-21

RADIUM-226 (GFPC)

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for Radium-226 (GFPC) in accordance with SW 846 9315. The samples were prepared on 10/12/2021 and 10/13/2021 and analyzed on 11/05/2021, 11/07/2021 and 11/09/2021.

Method 9315: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-153860-1, 280-153860-2, 280-153860-3, 280-153860-4, 280-153860-5, 280-153860-6, 280-153860-7, 280-153860-7[MS], 280-153860-7[MSD], 280-153860-8, 280-153860-9, 280-153860-11 and 280-153860-12

Method 9315: Ra-226 batch 160-531167

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-153860-13, 280-153860-14, 280-153860-15, 280-153860-16, 280-153860-17,

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Job ID: 280-153860-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

280-153860-18, 280-153860-19, 280-153860-20, 280-153860-21, LCS 160-531167/1-A, MB 160-531167/24-A, 310-216943-D-3-A, 310-216943-D-3-B MS and 310-216943-E-3-A MSD

Method 9315: Ra226 160-531366

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

280-153860-10

Method PrecSep-21: Radium-226 Prep Batch 160-531366

The following samples were prepared at a reduced aliquot due to Matrix: 280-153860-10. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

RADIUM-228

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for Radium-228 in accordance with 9320. The samples were prepared on 10/12/2021 and 10/13/2021 and analyzed on 11/04/2021 and 11/05/2021.

Method 9320: Radium 228 batch 531305

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-153860-1, 280-153860-2, 280-153860-3, 280-153860-4, 280-153860-5, 280-153860-6, 280-153860-7, 280-153860-7[MS], 280-153860-7[MSD], 280-153860-8, 280-153860-9, 280-153860-11, 280-153860-12, LCS 160-531305/1-A and MB 160-531305/23-A

Method 9320: Radium 228 batch 531213

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-153860-13, 280-153860-14, 280-153860-15, 280-153860-16, 280-153860-17, 280-153860-18, 280-153860-19, 280-153860-20, 280-153860-21, LCS 160-531213/1-A, MB 160-531213/24-A, 310-216943-D-3-C, 310-216943-D-3-D MS and 310-216943-E-3-B MSD

Method 9320: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 280-153860-10

Method PrecSep_0: Radium-228 Prep Batch 160-531421

The following samples were prepared at a reduced aliquot due to Matrix: 280-153860-10. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

RADIUM-226/RADIUM-228 (GFPC)

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for Radium-226/Radium-228 (GFPC) in accordance with 9315/9320. The samples were analyzed on 11/09/2021, 11/13/2021 and 11/18/2021.

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Job ID: 280-153860-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

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

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Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-14BR	Lab Sample ID: 280-153860-1
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-21B	Lab Sample ID: 280-153860-2
<input type="checkbox"/> No Detections.	
Client Sample ID: DUP-01	Lab Sample ID: 280-153860-3
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-20B	Lab Sample ID: 280-153860-4
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-32B	Lab Sample ID: 280-153860-5
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-36B	Lab Sample ID: 280-153860-6
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-37B	Lab Sample ID: 280-153860-7
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-38B	Lab Sample ID: 280-153860-8
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-38C	Lab Sample ID: 280-153860-9
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-39B	Lab Sample ID: 280-153860-10
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-40B	Lab Sample ID: 280-153860-11
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-41B	Lab Sample ID: 280-153860-12
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-42B	Lab Sample ID: 280-153860-13
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-43B	Lab Sample ID: 280-153860-14
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-44B	Lab Sample ID: 280-153860-15
<input type="checkbox"/> No Detections.	
Client Sample ID: MW-45B	Lab Sample ID: 280-153860-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-46B

Lab Sample ID: 280-153860-17

No Detections.

Client Sample ID: MW-47B

Lab Sample ID: 280-153860-18

No Detections.

Client Sample ID: MW-52B

Lab Sample ID: 280-153860-19

No Detections.

Client Sample ID: MW-53B

Lab Sample ID: 280-153860-20

No Detections.

Client Sample ID: Field Blank

Lab Sample ID: 280-153860-21

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-153860-1	MW-14BR	Water	10/05/21 15:45	10/07/21 15:20
280-153860-2	MW-21B	Water	10/05/21 16:50	10/07/21 15:20
280-153860-3	DUP-01	Water	10/05/21 00:00	10/07/21 15:20
280-153860-4	MW-20B	Water	10/05/21 15:00	10/07/21 15:20
280-153860-5	MW-32B	Water	10/06/21 15:15	10/07/21 15:20
280-153860-6	MW-36B	Water	10/06/21 16:00	10/07/21 15:20
280-153860-7	MW-37B	Water	10/06/21 16:45	10/07/21 15:20
280-153860-8	MW-38B	Water	10/06/21 09:30	10/07/21 15:20
280-153860-9	MW-38C	Water	10/06/21 08:20	10/07/21 15:20
280-153860-10	MW-39B	Water	10/06/21 14:30	10/07/21 15:20
280-153860-11	MW-40B	Water	10/06/21 13:30	10/07/21 15:20
280-153860-12	MW-41B	Water	10/05/21 14:15	10/07/21 15:20
280-153860-13	MW-42B	Water	10/05/21 13:15	10/07/21 15:20
280-153860-14	MW-43B	Water	10/05/21 12:30	10/07/21 15:20
280-153860-15	MW-44B	Water	10/05/21 11:45	10/07/21 15:20
280-153860-16	MW-45B	Water	10/05/21 11:00	10/07/21 15:20
280-153860-17	MW-46B	Water	10/05/21 10:20	10/07/21 15:20
280-153860-18	MW-47B	Water	10/05/21 09:20	10/07/21 15:20
280-153860-19	MW-52B	Water	10/07/21 08:45	10/07/21 15:20
280-153860-20	MW-53B	Water	10/06/21 12:00	10/07/21 15:20
280-153860-21	Field Blank	Water	10/05/21 15:55	10/07/21 15:20



Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0646	U	0.238	0.238	1.00	0.447	pCi/L	10/12/21 13:47	11/05/21 09:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/12/21 13:47	11/05/21 09:58	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00758	U	0.225	0.225	1.00	0.443	pCi/L	10/12/21 13:47	11/05/21 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					10/12/21 13:47	11/05/21 09:59	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.185	0.185	1.00	0.345	pCi/L	10/12/21 13:47	11/05/21 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/12/21 13:47	11/05/21 09:59	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0225	U	0.171	0.171	1.00	0.330	pCi/L	10/12/21 13:47	11/05/21 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					10/12/21 13:47	11/05/21 09:59	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.242	U	0.193	0.194	1.00	0.286	pCi/L	10/12/21 13:47	11/05/21 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					10/12/21 13:47	11/05/21 09:59	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.198	U	0.183	0.184	1.00	0.284	pCi/L	10/12/21 13:47	11/05/21 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					10/12/21 13:47	11/05/21 09:59	1

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00738	U	0.182	0.182	1.00	0.357	pCi/L	10/12/21 13:47	11/05/21 10:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110					10/12/21 13:47	11/05/21 10:00	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.422		0.236	0.239	1.00	0.325	pCi/L	10/12/21 13:47	11/05/21 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					10/12/21 13:47	11/05/21 10:02	1

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0358	U	0.152	0.152	1.00	0.285	pCi/L	10/12/21 13:47	11/05/21 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/12/21 13:47	11/05/21 10:02	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.391		0.210	0.213	1.00	0.274	pCi/L	10/13/21 10:34	11/07/21 21:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/13/21 10:34	11/07/21 21:29	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.495		0.254	0.258	1.00	0.335	pCi/L	10/12/21 13:47	11/05/21 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					10/12/21 13:47	11/05/21 10:02	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0647	U	0.157	0.157	1.00	0.283	pCi/L	10/12/21 13:47	11/05/21 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					10/12/21 13:47	11/05/21 10:03	1

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.126	U	0.205	0.205	1.00	0.451	pCi/L	10/12/21 11:32	11/05/21 17:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					10/12/21 11:32	11/05/21 17:20	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.262	U	0.233	0.234	1.00	0.358	pCi/L	10/12/21 11:32	11/05/21 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/12/21 11:32	11/05/21 19:03	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.133	U	0.190	0.190	1.00	0.323	pCi/L	10/12/21 11:32	11/05/21 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/12/21 11:32	11/05/21 19:03	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166	U	0.179	0.179	1.00	0.284	pCi/L	10/12/21 11:32	11/05/21 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					10/12/21 11:32	11/05/21 19:03	1

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00331	U	0.0956	0.0956	1.00	0.192	pCi/L	10/12/21 11:32	11/09/21 20:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					10/12/21 11:32	11/09/21 20:31	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.346	U	0.261	0.262	1.00	0.385	pCi/L	10/12/21 11:32	11/05/21 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					10/12/21 11:32	11/05/21 19:03	1

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.153	U	0.232	0.232	1.00	0.397	pCi/L	10/12/21 11:32	11/05/21 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					10/12/21 11:32	11/05/21 19:04	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.221	U	0.215	0.216	1.00	0.336	pCi/L	10/12/21 11:32	11/05/21 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					10/12/21 11:32	11/05/21 19:04	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0543	U	0.213	0.213	1.00	0.437	pCi/L	10/12/21 11:32	11/05/21 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					10/12/21 11:32	11/05/21 19:04	1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17		0.471	0.483	1.00	0.654	pCi/L	10/12/21 14:46	11/04/21 12:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					10/12/21 14:46	11/04/21 12:52	1
Y Carrier	82.2		40 - 110					10/12/21 14:46	11/04/21 12:52	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.932		0.416	0.425	1.00	0.588	pCi/L	10/12/21 14:46	11/04/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					10/12/21 14:46	11/04/21 12:53	1
Y Carrier	84.1		40 - 110					10/12/21 14:46	11/04/21 12:53	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.854		0.295	0.305	1.00	0.394	pCi/L	10/12/21 14:46	11/04/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/12/21 14:46	11/04/21 12:53	1
Y Carrier	84.1		40 - 110					10/12/21 14:46	11/04/21 12:53	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.414		0.249	0.252	1.00	0.374	pCi/L	10/12/21 14:46	11/04/21 12:53	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110	10/12/21 14:46	11/04/21 12:53	1
Y Carrier	83.7		40 - 110	10/12/21 14:46	11/04/21 12:53	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.373	0.398	1.00	0.459	pCi/L	10/12/21 14:46	11/04/21 12:46	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110	10/12/21 14:46	11/04/21 12:46	1
Y Carrier	83.7		40 - 110	10/12/21 14:46	11/04/21 12:46	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.513		0.276	0.280	1.00	0.413	pCi/L	10/12/21 14:46	11/04/21 12:46	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110	10/12/21 14:46	11/04/21 12:46	1
Y Carrier	84.1		40 - 110	10/12/21 14:46	11/04/21 12:46	1

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.305	0.321	1.00	0.382	pCi/L	10/12/21 14:46	11/04/21 12:46	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110	10/12/21 14:46	11/04/21 12:46	1
Y Carrier	86.0		40 - 110	10/12/21 14:46	11/04/21 12:46	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.824		0.290	0.299	1.00	0.393	pCi/L	10/12/21 14:46	11/04/21 12:47	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110	10/12/21 14:46	11/04/21 12:47	1
Y Carrier	86.0		40 - 110	10/12/21 14:46	11/04/21 12:47	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.468		0.253	0.256	1.00	0.377	pCi/L	10/12/21 14:46	11/04/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					10/12/21 14:46	11/04/21 12:48	1
Y Carrier	85.2		40 - 110					10/12/21 14:46	11/04/21 12:48	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.372	U	0.303	0.305	1.00	0.481	pCi/L	10/13/21 11:11	11/05/21 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					10/13/21 11:11	11/05/21 16:38	1
Y Carrier	84.5		40 - 110					10/13/21 11:11	11/05/21 16:38	1

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18		0.325	0.342	1.00	0.402	pCi/L	10/12/21 14:46	11/04/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					10/12/21 14:46	11/04/21 12:48	1
Y Carrier	87.5		40 - 110					10/12/21 14:46	11/04/21 12:48	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.498		0.253	0.257	1.00	0.376	pCi/L	10/12/21 14:46	11/04/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					10/12/21 14:46	11/04/21 12:48	1
Y Carrier	86.7		40 - 110					10/12/21 14:46	11/04/21 12:48	1

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.508	U	0.525	0.527	1.00	0.855	pCi/L	10/12/21 12:13	11/04/21 20:34	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110	10/12/21 12:13	11/04/21 20:34	1
Y Carrier	81.5		40 - 110	10/12/21 12:13	11/04/21 20:34	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.752	U	0.565	0.570	1.00	0.892	pCi/L	10/12/21 12:13	11/04/21 20:34	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110	10/12/21 12:13	11/04/21 20:34	1
Y Carrier	83.0		40 - 110	10/12/21 12:13	11/04/21 20:34	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.453	0.454	1.00	0.769	pCi/L	10/12/21 12:13	11/04/21 20:34	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110	10/12/21 12:13	11/04/21 20:34	1
Y Carrier	86.4		40 - 110	10/12/21 12:13	11/04/21 20:34	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.206	U	0.493	0.494	1.00	0.849	pCi/L	10/12/21 12:13	11/04/21 20:34	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110	10/12/21 12:13	11/04/21 20:34	1
Y Carrier	80.0		40 - 110	10/12/21 12:13	11/04/21 20:34	1

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.257	U	0.558	0.558	1.00	0.951	pCi/L	10/12/21 12:13	11/04/21 20:35	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110	10/12/21 12:13	11/04/21 20:35	1
Y Carrier	83.4		40 - 110	10/12/21 12:13	11/04/21 20:35	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC)

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0780	U	0.467	0.467	1.00	0.824	pCi/L	10/12/21 12:13	11/04/21 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					10/12/21 12:13	11/04/21 20:35	1
Y Carrier	82.6		40 - 110					10/12/21 12:13	11/04/21 20:35	1

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.425	U	0.561	0.562	1.00	0.934	pCi/L	10/12/21 12:13	11/04/21 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					10/12/21 12:13	11/04/21 20:35	1
Y Carrier	84.1		40 - 110					10/12/21 12:13	11/04/21 20:35	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.435	U	0.459	0.461	1.00	0.749	pCi/L	10/12/21 12:13	11/04/21 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					10/12/21 12:13	11/04/21 20:35	1
Y Carrier	84.9		40 - 110					10/12/21 12:13	11/04/21 20:35	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.591	U	0.426	0.430	1.00	0.865	pCi/L	10/12/21 12:13	11/04/21 20:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					10/12/21 12:13	11/04/21 20:35	1
Y Carrier	81.5		40 - 110					10/12/21 12:13	11/04/21 20:35	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.23		0.528	0.538	5.00	0.654	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.939		0.473	0.481	5.00	0.588	pCi/L		11/09/21 17:02	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.901		0.348	0.357	5.00	0.394	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.437		0.302	0.305	5.00	0.374	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.76		0.420	0.443	5.00	0.459	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.711		0.331	0.335	5.00	0.413	pCi/L		11/09/21 17:02	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.355	0.369	5.00	0.382	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.25		0.374	0.383	5.00	0.393	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.504		0.295	0.298	5.00	0.377	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.762		0.369	0.372	5.00	0.481	pCi/L		11/18/21 21:21	1

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.67		0.412	0.428	5.00	0.402	pCi/L		11/09/21 17:02	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.563		0.298	0.301	5.00	0.376	pCi/L		11/09/21 17:02	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.382	U	0.564	0.565	5.00	0.855	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.01		0.611	0.616	5.00	0.892	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.395	U	0.491	0.492	5.00	0.769	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.372	U	0.524	0.525	5.00	0.849	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.254	U	0.566	0.566	5.00	0.951	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.424	U	0.535	0.535	5.00	0.824	pCi/L		11/13/21 18:17	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.578	U	0.607	0.608	5.00	0.934	pCi/L		11/13/21 18:17	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.657	U	0.507	0.509	5.00	0.749	pCi/L		11/13/21 18:17	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.645	U	0.476	0.480	5.00	0.865	pCi/L		11/13/21 18:17	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-531167/24-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531167

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1859	U	0.202	0.202	1.00	0.324	pCi/L	10/12/21 11:32	11/05/21 20:33	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					10/12/21 11:32	11/05/21 20:33	1
	101									

Lab Sample ID: LCS 160-531167/1-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531167

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.20		1.64	1.00	0.378	pCi/L	87	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	86.0								

Lab Sample ID: MB 160-531296/23-A
Matrix: Water
Analysis Batch: 535213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531296

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.3569		0.200	0.203	1.00	0.262	pCi/L	10/12/21 13:47	11/05/21 10:03	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					10/12/21 13:47	11/05/21 10:03	1
	96.1									

Lab Sample ID: LCS 160-531296/1-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531296

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.993		1.13	1.00	0.294	pCi/L	79	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	97.2								

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 535209

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 531296

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
						Uncert. (2σ+/-)					
Radium-226	-0.00738	U	11.3	9.556		1.20	1.00	0.317	pCi/L	84	75 - 138

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QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 535209

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 531296

MS MS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.9		40 - 110

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 535209

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 531296

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
											75 - 138	0.08	1	
Radium-226	-0.00738	U	11.3	9.759		1.22	1.00	0.344	pCi/L	86	75 - 138	0.08	1	

MSD MSD			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	100		40 - 110

Lab Sample ID: MB 160-531366/23-A
Matrix: Water
Analysis Batch: 535396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531366

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								10/13/21 10:34	11/07/21 23:09	11/07/21 23:09	1	
Radium-226	0.4596		0.184	0.189	1.00	0.220	pCi/L	10/13/21 10:34	11/07/21 23:09	11/07/21 23:09	1	

MB MB									
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Ba Carrier	101		40 - 110	10/13/21 10:34	11/07/21 23:09	1			

Lab Sample ID: LCS 160-531366/1-A
Matrix: Water
Analysis Batch: 535392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531366

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75 - 125	
Radium-226	11.3	10.33		1.17	1.00	0.191	pCi/L	91	75 - 125	

LCS LCS			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	101		40 - 110

Lab Sample ID: LCSD 160-531366/2-A
Matrix: Water
Analysis Batch: 535392

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 531366

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.02	1	
Radium-226	11.3	10.28		1.17	1.00	0.187	pCi/L	91	75 - 125	0.02	1	

LCSD LCSD			
Carrier	%Yield	Qualifier	Limits
Ba Carrier	99.5		40 - 110

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-531213/24-A
Matrix: Water
Analysis Batch: 535030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531213

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4763		0.299	0.302	1.00	0.453	pCi/L	10/12/21 12:13	11/04/21 16:38	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	101		40 - 110				10/12/21 12:13		11/04/21 16:38	1
Y Carrier	85.2		40 - 110				10/12/21 12:13		11/04/21 16:38	1

Lab Sample ID: LCS 160-531213/1-A
Matrix: Water
Analysis Batch: 535031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531213

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	12.2	12.94		1.78	1.00	1.05	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.0		40 - 110						
Y Carrier	76.6		40 - 110						

Lab Sample ID: MB 160-531305/23-A
Matrix: Water
Analysis Batch: 535031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531305

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5811		0.314	0.319	1.00	0.462	pCi/L	10/12/21 14:46	11/04/21 12:48	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110				10/12/21 14:46		11/04/21 12:48	1
Y Carrier	63.9		40 - 110				10/12/21 14:46		11/04/21 12:48	1

Lab Sample ID: LCS 160-531305/1-A
Matrix: Water
Analysis Batch: 535182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531305

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.18	10.35		1.20	1.00	0.443	pCi/L	113	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.2		40 - 110						
Y Carrier	82.6		40 - 110						

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 535031

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 531305

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
	Result	Qual		Result	Qual							
Radium-228	1.09		9.18	9.514		1.11	1.00	0.389	pCi/L	92		45 - 150
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	97.9		40 - 110									
Y Carrier	85.6		40 - 110									

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 535031

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 531305

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec.	Limits	RER	Limit
	Result	Qual		Result	Qual									
Radium-228	1.09		9.17	9.150		1.08	1.00	0.441	pCi/L	88		45 - 150	0.17	1
MSD MSD														
Carrier	%Yield	Qualifier	Limits											
Ba Carrier	100		40 - 110											
Y Carrier	85.6		40 - 110											

Lab Sample ID: MB 160-531421/23-A
Matrix: Water
Analysis Batch: 535228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531421

Analyte	MB	MB	Spike	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4014		9.17	0.223	0.226	1.00	0.335	pCi/L	10/13/21 11:11	11/05/21 16:43	1
MB MB											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	101		40 - 110								
Y Carrier	89.3		40 - 110								
									Prepared	Analyzed	Dil Fac
									10/13/21 11:11	11/05/21 16:43	1
									10/13/21 11:11	11/05/21 16:43	1

Lab Sample ID: LCS 160-531421/1-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531421

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec.	Limits
		Result	Qual							
Radium-228	9.17	8.803		1.02	1.00	0.374	pCi/L	96		75 - 125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	101		40 - 110							
Y Carrier	84.5		40 - 110							

QC Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-531421/2-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 531421

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.17	9.224		1.06	1.00	0.361	pCi/L	101	75 - 125	0.20	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	99.5		40 - 110
Y Carrier	86.4		40 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Rad

Prep Batch: 531167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-13	MW-42B	Total/NA	Water	PrecSep-21	
280-153860-14	MW-43B	Total/NA	Water	PrecSep-21	
280-153860-15	MW-44B	Total/NA	Water	PrecSep-21	
280-153860-16	MW-45B	Total/NA	Water	PrecSep-21	
280-153860-17	MW-46B	Total/NA	Water	PrecSep-21	
280-153860-18	MW-47B	Total/NA	Water	PrecSep-21	
280-153860-19	MW-52B	Total/NA	Water	PrecSep-21	
280-153860-20	MW-53B	Total/NA	Water	PrecSep-21	
280-153860-21	Field Blank	Total/NA	Water	PrecSep-21	
MB 160-531167/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-531167/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 531213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-13	MW-42B	Total/NA	Water	PrecSep_0	
280-153860-14	MW-43B	Total/NA	Water	PrecSep_0	
280-153860-15	MW-44B	Total/NA	Water	PrecSep_0	
280-153860-16	MW-45B	Total/NA	Water	PrecSep_0	
280-153860-17	MW-46B	Total/NA	Water	PrecSep_0	
280-153860-18	MW-47B	Total/NA	Water	PrecSep_0	
280-153860-19	MW-52B	Total/NA	Water	PrecSep_0	
280-153860-20	MW-53B	Total/NA	Water	PrecSep_0	
280-153860-21	Field Blank	Total/NA	Water	PrecSep_0	
MB 160-531213/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-531213/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 531296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	PrecSep-21	
280-153860-2	MW-21B	Total/NA	Water	PrecSep-21	
280-153860-3	DUP-01	Total/NA	Water	PrecSep-21	
280-153860-4	MW-20B	Total/NA	Water	PrecSep-21	
280-153860-5	MW-32B	Total/NA	Water	PrecSep-21	
280-153860-6	MW-36B	Total/NA	Water	PrecSep-21	
280-153860-7	MW-37B	Total/NA	Water	PrecSep-21	
280-153860-8	MW-38B	Total/NA	Water	PrecSep-21	
280-153860-9	MW-38C	Total/NA	Water	PrecSep-21	
280-153860-11	MW-40B	Total/NA	Water	PrecSep-21	
280-153860-12	MW-41B	Total/NA	Water	PrecSep-21	
MB 160-531296/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-531296/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
280-153860-7 MS	MW-37B	Total/NA	Water	PrecSep-21	
280-153860-7 MSD	MW-37B	Total/NA	Water	PrecSep-21	

Prep Batch: 531305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	PrecSep_0	
280-153860-2	MW-21B	Total/NA	Water	PrecSep_0	
280-153860-3	DUP-01	Total/NA	Water	PrecSep_0	
280-153860-4	MW-20B	Total/NA	Water	PrecSep_0	
280-153860-5	MW-32B	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Rad (Continued)

Prep Batch: 531305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-6	MW-36B	Total/NA	Water	PrecSep_0	
280-153860-7	MW-37B	Total/NA	Water	PrecSep_0	
280-153860-8	MW-38B	Total/NA	Water	PrecSep_0	
280-153860-9	MW-38C	Total/NA	Water	PrecSep_0	
280-153860-11	MW-40B	Total/NA	Water	PrecSep_0	
280-153860-12	MW-41B	Total/NA	Water	PrecSep_0	
MB 160-531305/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-531305/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
280-153860-7 MS	MW-37B	Total/NA	Water	PrecSep_0	
280-153860-7 MSD	MW-37B	Total/NA	Water	PrecSep_0	

Prep Batch: 531366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-10	MW-39B	Total/NA	Water	PrecSep-21	
MB 160-531366/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-531366/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-531366/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 531421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-10	MW-39B	Total/NA	Water	PrecSep_0	
MB 160-531421/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-531421/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-531421/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-14BR

Lab Sample ID: 280-153860-1

Date Collected: 10/05/21 15:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.30 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:58	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.30 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535165	11/04/21 12:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-21B

Lab Sample ID: 280-153860-2

Date Collected: 10/05/21 16:50

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.52 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.52 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535165	11/04/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 280-153860-3

Date Collected: 10/05/21 00:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.19 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.19 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535165	11/04/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-20B

Lab Sample ID: 280-153860-4

Date Collected: 10/05/21 15:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.24 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.24 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535165	11/04/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-32B

Lab Sample ID: 280-153860-5

Date Collected: 10/06/21 15:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.57 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.57 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:46	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-36B

Lab Sample ID: 280-153860-6

Date Collected: 10/06/21 16:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.23 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 09:59	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.23 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:46	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-37B

Lab Sample ID: 280-153860-7

Date Collected: 10/06/21 16:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.48 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 10:00	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:46	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-38B

Lab Sample ID: 280-153860-8

Date Collected: 10/06/21 09:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.16 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535228	11/05/21 10:02	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.16 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:47	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-38C

Lab Sample ID: 280-153860-9

Date Collected: 10/06/21 08:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.58 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535228	11/05/21 10:02	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.58 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-39B

Lab Sample ID: 280-153860-10

Date Collected: 10/06/21 14:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.19 mL	1.0 g	531366	10/13/21 10:34	BMP	TAL SL
Total/NA	Analysis	9315		1			535392	11/07/21 21:29	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.19 mL	1.0 g	531421	10/13/21 11:11	BMP	TAL SL
Total/NA	Analysis	9320		1			535209	11/05/21 16:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			537493	11/18/21 21:21	EMH	TAL SL

Client Sample ID: MW-40B

Lab Sample ID: 280-153860-11

Date Collected: 10/06/21 13:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.42 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535228	11/05/21 10:02	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Client Sample ID: MW-41B

Lab Sample ID: 280-153860-12

Date Collected: 10/05/21 14:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.49 mL	1.0 g	531296	10/12/21 13:47	BMP	TAL SL
Total/NA	Analysis	9315		1			535228	11/05/21 10:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	531305	10/12/21 14:46	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 12:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			535773	11/09/21 17:02	EMH	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-42B

Lab Sample ID: 280-153860-13

Date Collected: 10/05/21 13:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.61 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 17:20	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.61 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-43B

Lab Sample ID: 280-153860-14

Date Collected: 10/05/21 12:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.30 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535213	11/05/21 19:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			750.30 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-44B

Lab Sample ID: 280-153860-15

Date Collected: 10/05/21 11:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.17 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535213	11/05/21 19:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			750.17 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-45B

Lab Sample ID: 280-153860-16

Date Collected: 10/05/21 11:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.15 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535213	11/05/21 19:03	MLK	TAL SL
Total/NA	Prep	PrecSep_0			750.15 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:34	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: MW-46B

Lab Sample ID: 280-153860-17

Date Collected: 10/05/21 10:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.35 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535777	11/09/21 20:31	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.35 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-47B

Lab Sample ID: 280-153860-18

Date Collected: 10/05/21 09:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.44 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 19:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.44 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-52B

Lab Sample ID: 280-153860-19

Date Collected: 10/07/21 08:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.75 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 19:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.75 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Client Sample ID: MW-53B

Lab Sample ID: 280-153860-20

Date Collected: 10/06/21 12:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.08 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 19:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.08 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Client Sample ID: Field Blank

Lab Sample ID: 280-153860-21

Date Collected: 10/05/21 15:55

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.68 mL	1.0 g	531167	10/12/21 11:32	BMP	TAL SL
Total/NA	Analysis	9315		1			535209	11/05/21 19:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			750.68 mL	1.0 g	531213	10/12/21 12:13	BMP	TAL SL
Total/NA	Analysis	9320		1			535031	11/04/21 20:35	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1			536457	11/13/21 18:17	MLK	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

Client Information	Sampler: <u>Chris Mueser</u> Lab PM: <u>McEntee, Patrick J</u> Phone: <u>612-202-5465</u> E-Mail: <u>Patrick.McEntee@Eurofins.com</u>	Candler Tracking No(s): <u>By Samples</u> State of Origin: <u>Wyoming</u> Job #: <u>10fz</u>	COC No: <u>280-109364-31772.1</u> Page: <u>1 of 2</u>
Company: <u>AECOM Technical Services Inc.</u> Address: <u>6200 S. Quebec Street</u> City: <u>Greenwood Village</u> State: <u>CO</u> , Zip: <u>80111</u> Phone: <u></u> Email: <u>katie.abbott@aecom.com</u> Project Name: <u>CCR - Basin Electric 2021</u> Site: <u></u>	PWSID: <u></u> Due Date Requested: <u></u> TAT Requested (days): <u>Standard</u> Compliance Project: <u>Δ Yes Δ No</u> PO #: <u>127030</u> WO #: <u></u> AECOM Project#: <u>60632474</u> Project #: <u>28020759</u> SSOW#: <u></u>	Analysis Requested 6010C - Total Ca, B, 7470A - Total Hg 2540C - Calcd - TDS 9056A - 28D - Chloride, Fluoride, Sulfate 6020A - (MOD) 12 Total Metals 9315 - Radium-226 (St Louis) 9320 - Radium-228 (St Louis) Ra226, Ra228 - Combined Radium-226 and Radium-228 (St Louis)	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: <u></u> M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
Sample Identification MW-143B MW-21B DUP-01 MW-20B MW-32B MW-30B MW-37B MW-38B MW-38C MW-39B MW-40B	Sample Date 10/5/21 10/5/21 10/5/21 10/5/21 10/6/21 10/6/21 10/6/21 10/6/21 10/6/21 10/6/21	Sample Time 1545 1650 - 1500 1515 1400 1645 0930 0820 1430 1330	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AA=Air) Preservation Code: Water Water Water Water Water Water Water Water Water Water
Total Number of Containers: <u>11</u> Special Instructions/Note: <u>All samples are stored on ice</u> MS/MSD collected at MW-37B			
280-153860 Chain of Custody 			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) <u></u>			
Empty Kit Relinquished by: <u></u> Date: <u></u> Time: <u></u>			
Relinquished by: <u>Chris Mueser</u> Date: <u>10/7/2021</u> Time: <u>1520</u> Company: <u>AECOM</u>			
Relinquished by: <u></u> Date: <u></u> Time: <u></u> Company: <u></u>			
Relinquished by: <u></u> Date: <u></u> Time: <u></u> Company: <u></u>			
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No. <u>Delivered by Sampler</u>			
Cooler Temperature(s) °C and Other Remarks: <u>1.4, 3.1, 0.5, 13.0, 6.0, 4.1, 3.0, 4.1, 12.1, 11.0</u>			



Chain of Custody Record

Client Information		Sampler: <u>Chris Abbott</u>		Lab PM: <u>McEntee, Patrick J</u>		Carrier Tracking No(s): <u>1375 sampler</u>		COC No: <u>280-109364-31772.1</u>	
Client Contact: <u>Ms. Katie Abbott</u>		Phone: <u>612-202-5465</u>		E-Mail: <u>Patrick.McEntee@Eurofinset.com</u>		State of Origin: <u>PA Wyoming</u>		Page: <u>7 of 2</u>	
Company: <u>AECOM Technical Services Inc.</u>		PWSID:		Analysis Requested		Total Number of Containers		Job #: <u>7092</u>	
Address: <u>6200 S. Quebec Street</u>		Due Date Requested:		6010C - Total Ca, B, 7470A - Total Hg		6020A - (MOD) 12 Total Metals		Preservation Codes:	
City: <u>Greenwood Village</u>		TAT Requested (days): <u>Standard</u>		6056A_28D - Chloride, Fluoride, Sulfate		9320 - Radium-228 (St Louis)		A - HCL	
State, Zip: <u>CO, 80111</u>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7540C_Calcd - TDS		9320 - Radium-228 (St Louis)		M - Hexane	
Phone:		PO #: <u>127030</u>		Field Filtered Sample (Yes or No)		9320 - Radium-228 (St Louis)		N - None	
Email: <u>katie.abbott@aecom.com</u>		WO #: <u>AECOM Project# 60632474</u>		Perform MS/MSD (Yes or No)		9320 - Radium-228 (St Louis)		O - AsNaO2	
Project Name: <u>CCR - Basin Electric 2021</u>		Project #: <u>28020759</u>		Sample Date		9320 - Radium-228 (St Louis)		D - Nitric Acid	
Site: <u>CCR - Basin Electric 2021</u>		SSOW#:		Sample Time		9320 - Radium-228 (St Louis)		G - Na2SO3	
				Sample Type (C=Comp, G=grab)		9320 - Radium-228 (St Louis)		R - Na2S2O3	
				Matrix (W=water, S=solid, O=waste/oli, B=titrate, A=air)		9320 - Radium-228 (St Louis)		F - MeOH	
				Preservation Code:		9320 - Radium-228 (St Louis)		G - Amchlor	
				Sample Date		9320 - Radium-228 (St Louis)		H - Ascorbic Acid	
				Sample Time		9320 - Radium-228 (St Louis)		I - Ice	
				Sample Type		9320 - Radium-228 (St Louis)		J - DI Water	
				Matrix		9320 - Radium-228 (St Louis)		K - EDTA	
				Sample Type		9320 - Radium-228 (St Louis)		L - EDA	
				Matrix		9320 - Radium-228 (St Louis)		Other:	
				Sample Type		9320 - Radium-228 (St Louis)			
				Matrix		9320 - Radium-228 (St Louis)			
				Sample Type		9320 - Radium-228 (St Louis)			
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				Sample Type		9320 - Radium-228 (St Louis)			
				Matrix		9320 - Radium-228 (St Louis)			
				Sample Type		9320 - Radium-228 (St Louis)			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: McEntee, Patrick J	Lab PM: McEntee, Patrick J	Carrier Tracking No(s): 280-588239.1	COC No: 280-588239.1
Client Contact: Shipping/Receiving		Phone: Patrick.McEntee@Eurofins.com	E-Mail: Patrick.McEntee@Eurofins.com	State of Origin: Colorado	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon		Job #: 280-153860-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 11/7/2021	Analysis Requested		
Project Name: CCR - Basin Electric 2020 - LRS Site:		TAT Requested (days):	Total Number of Containers		
PO #:		Project #: 28020759	9315_Ra226/PreSep_21 Standard Target List		
WO #:		SSOW#:	9320_Ra228/PreSep_0 Standard Target List		
Field Filtered Sample (Yes or No)		Ra226Ra228_GFP			
Sample Date		Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Solid, O=Other, BT=Tran, A=Air)	Field Filtered Sample (Yes or No)
MW-14BR (280-153860-1)		10/5/21	Mountain	Water	X
MW-21B (280-153860-2)		10/5/21	Mountain	Water	X
DUP-01 (280-153860-3)		10/5/21	Mountain	Water	X
MW-20B (280-153860-4)		10/5/21	Mountain	Water	X
MW-32B (280-153860-5)		10/6/21	Mountain	Water	X
MW-36B (280-153860-6)		10/6/21	Mountain	Water	X
MW-37B (280-153860-7)		10/6/21	Mountain	Water	X
MW-37B (280-153860-7MS)		10/6/21	Mountain	MS	X
MW-37B (280-153860-7MSD)		10/6/21	Mountain	MSD	X
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica</p>					
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: 10/18/21 1330 Relinquished by: _____ Date: _____ Relinquished by: _____ Date: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>					
<p>Method of Shipment: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:</p>					



Eurofins TestAmerica, Denver
 4955 Yarrow Street
 Avada, CO 80002
 Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM McEntee, Patrick J	Carrier Tracking Net(s)	COC No. 280-588849.1		
Shipping/Receiving Company TestAmerica Laboratories, Inc.		E-Mail: Patrick.McEntee@Eurofinset.com	State of Origin Colorado	Page Page 1 of 3		
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Accreditations Required (See note) NELAP - Oregon	Job # 280-153860-1			
Project Name CCR - Basin Electric 2020 - LRS Site:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify) Other:				
Due Date Requested: 11/7/2021 TAT Requested (days):		Analysis Requested				
PO #:		9315_Raz26/PreSep_21 Standard Target List				
WO #:		9320_Raz28/PreSep_0 Standard Target List				
Project # 28020759		Perform MS/MSD (Yes or No)				
SSOW#:		Field Filtered Sample (Yes or No)				
		Total Number of Containers				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewat, BT=Tissue, ASAU)	Preservation Code:	Special Instructions/Note:
MW-14BR (280-153860-1)	10/5/21	15:45 Mountain		Water		
MW-21B (280-153860-2)	10/5/21	16:50 Mountain		Water		
DUP-01 (280-153860-3)	10/5/21	Mountain		Water		
MW-20B (280-153860-4)	10/5/21	15:00 Mountain		Water		
MW-32B (280-153860-5)	10/6/21	15:15 Mountain		Water		
MW-36B (280-153860-6)	10/6/21	16:00 Mountain		Water		
MW-37B (280-153860-7)	10/6/21	16:45 Mountain		Water		
MW-37B (280-153860-7MS)	10/6/21	16:45 Mountain	MS	Water		
MW-37B (280-153860-7MSD)	10/6/21	16:45 Mountain	MSD	Water		
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I, II, III, IV, Other (specify)						
Primary Deliverable Rank: 2						
Empty Kit Requisitioned by:						
Requisitioned by:						
Requisitioned by: FED EX						
Requisitioned by:						
Custody Seals Intact: Δ Yes Δ No						
Custody Seal No.:						
Cooler Temperature(s) °C and Other Remarks:						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:						
Method of Shipment:						
Received by: FED EX						
Date/Time: OCT 14 2021 1305						
Company: CTA STL						



Eurofins TestAmerica, Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing
 America

Client Information (Sub Contract Lab)		Lab PM: McEntee, Patrick J	Carrier Tracking No(s): 280-588849 2																																																																																																																								
Client Contact Shipping/Receiving		E-Mail: Patrick.McEntee@Eurofinset.com	State of Origin: Colorado																																																																																																																								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon	Job #: 280-153860-1																																																																																																																								
Address: 13715 Rider Trail North, Earth City		Analysis Requested																																																																																																																									
City: Earth City		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=Solid, O=Water/Oil, B=BT-Tissue, AA=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>9315_RaZ26/PreSep_21 Standard Target List</th> <th>9320_RaZ28/PreSep_0 Standard Target List</th> <th>RaZ26RaZ28 GFPC</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>MW-38B (280-153860-8)</td> <td>10/6/21</td> <td>09:30</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-38C (280-153860-9)</td> <td>10/6/21</td> <td>08:20</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-39B (280-153860-10)</td> <td>10/6/21</td> <td>14:30</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-40B (280-153860-11)</td> <td>10/6/21</td> <td>13:30</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-41B (280-153860-12)</td> <td>10/6/21</td> <td>14:15</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-42B (280-153860-13)</td> <td>10/5/21</td> <td>13:15</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-43B (280-153860-14)</td> <td>10/5/21</td> <td>12:30</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-44B (280-153860-15)</td> <td>10/5/21</td> <td>11:45</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>MW-45B (280-153860-16)</td> <td>10/5/21</td> <td>11:00</td> <td>Mountain</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </table>		Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Water/Oil, B=BT-Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_RaZ26/PreSep_21 Standard Target List	9320_RaZ28/PreSep_0 Standard Target List	RaZ26RaZ28 GFPC	Total Number of Containers	Special Instructions/Note:	MW-38B (280-153860-8)	10/6/21	09:30	Mountain	Water	X	X	X	X	X	1		MW-38C (280-153860-9)	10/6/21	08:20	Mountain	Water	X	X	X	X	X	1		MW-39B (280-153860-10)	10/6/21	14:30	Mountain	Water	X	X	X	X	X	1		MW-40B (280-153860-11)	10/6/21	13:30	Mountain	Water	X	X	X	X	X	1		MW-41B (280-153860-12)	10/6/21	14:15	Mountain	Water	X	X	X	X	X	1		MW-42B (280-153860-13)	10/5/21	13:15	Mountain	Water	X	X	X	X	X	1		MW-43B (280-153860-14)	10/5/21	12:30	Mountain	Water	X	X	X	X	X	1		MW-44B (280-153860-15)	10/5/21	11:45	Mountain	Water	X	X	X	X	X	1		MW-45B (280-153860-16)	10/5/21	11:00	Mountain	Water	X	X	X	X	X	1	
Sample ID (Lab ID)	Sample Date			Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Water/Oil, B=BT-Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_RaZ26/PreSep_21 Standard Target List	9320_RaZ28/PreSep_0 Standard Target List	RaZ26RaZ28 GFPC	Total Number of Containers	Special Instructions/Note:																																																																																																														
MW-38B (280-153860-8)	10/6/21			09:30	Mountain	Water	X	X	X	X	X	1																																																																																																															
MW-38C (280-153860-9)	10/6/21			08:20	Mountain	Water	X	X	X	X	X	1																																																																																																															
MW-39B (280-153860-10)	10/6/21			14:30	Mountain	Water	X	X	X	X	X	1																																																																																																															
MW-40B (280-153860-11)	10/6/21	13:30	Mountain	Water	X	X	X	X	X	1																																																																																																																	
MW-41B (280-153860-12)	10/6/21	14:15	Mountain	Water	X	X	X	X	X	1																																																																																																																	
MW-42B (280-153860-13)	10/5/21	13:15	Mountain	Water	X	X	X	X	X	1																																																																																																																	
MW-43B (280-153860-14)	10/5/21	12:30	Mountain	Water	X	X	X	X	X	1																																																																																																																	
MW-44B (280-153860-15)	10/5/21	11:45	Mountain	Water	X	X	X	X	X	1																																																																																																																	
MW-45B (280-153860-16)	10/5/21	11:00	Mountain	Water	X	X	X	X	X	1																																																																																																																	
Due Date Requested: 11/17/2021		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:																																																																																																																									
TAT Requested (days):		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Z - other (specify)																																																																																																																									
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Project Name CCR - Basin Electric 2020 - LRS																																																																																																																											
Site																																																																																																																											

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

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

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Custody Seals Intact: Yes No Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Received by: **FED EX** Date/Time: **10/31/21 12:05** Company: **TestAmerica**

Received by: **ayel** Date/Time: **OCT 14 2021 1305** Company: **ETA STL**

Received by: _____ Date/Time: _____ Company: _____



Eurofins TestAmerica, Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing
 America

Client Information (Sub Contract Lab)		Lab PM: McEntee, Patrick J	Carrier Tracking No(s):	COC No: 280-588849.3							
Shipping/Receiving		E-Mail: Patrick.McEntee@Eurofins.com	State of Origin: Colorado	Page: Page 3 of 3							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon	Job #: 280-153860-1								
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Other:									
City: Earth City		Analysis Requested									
State, Zip: MO, 63045		Total Number of containers									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		9315_Ra226/PreSep_21 Standard Target List									
Email:		9320_Ra228/PreSep_0 Standard Target List									
Project Name: CCR - Basin Electric 2020 - LRS		Ra226Ra228 GPPC									
Site: Site:		Perform MS/MSD (Yes or No)									
Project #: 28020759		Field Filtered Sample (Yes or No)									
SSOW#:		Preservation Code:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List	Ra226Ra228 GPPC	Total Number of containers	Special Instructions/Note:
MW-46B (280-153860-17)	10/5/21	10:20 Mountain		Water	X	X	X	X	X	1	
MW-47B (280-153860-18)	10/5/21	09:20 Mountain		Water	X	X	X	X	X	1	
MW-52B (280-153860-19)	10/7/21	08:45 Mountain		Water	X	X	X	X	X	1	
MW-53B (280-153860-20)	10/6/21	12:00 Mountain		Water	X	X	X	X	X	1	
Field Blank (280-153860-21)	10/5/21	15:55 Mountain		Water	X	X	X	X	X	1	

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

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Relinquished by: [Signature] Date: 10/13/21 12:05
 Relinquished by: [Signature] Date: 10/13/21 12:05
 Relinquished by: [Signature] Date: 10/13/21 12:05
 Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-153860-1

Login Number: 153860

List Number: 1

Creator: Kirar, Dylan A

List Source: Eurofins TestAmerica, Denver

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

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-153860-1

Login Number: 153860

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/11/21 04:35 PM

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

Tracer/Carrier Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
280-153860-1	MW-14BR	77.5	
280-153860-2	MW-21B	79.8	
280-153860-3	DUP-01	94.0	
280-153860-4	MW-20B	89.9	
280-153860-5	MW-32B	89.1	
280-153860-6	MW-36B	95.9	
280-153860-7	MW-37B	95.1	
280-153860-7 MS	MW-37B	97.9	
280-153860-7 MSD	MW-37B	100	
280-153860-8	MW-38B	95.6	
280-153860-9	MW-38C	101	
280-153860-10	MW-39B	95.3	
280-153860-11	MW-40B	86.8	
280-153860-12	MW-41B	105	
280-153860-13	MW-42B	96.6	
280-153860-14	MW-43B	94.0	
280-153860-15	MW-44B	95.3	
280-153860-16	MW-45B	97.2	
280-153860-17	MW-46B	96.6	
280-153860-18	MW-47B	95.9	
280-153860-19	MW-52B	83.2	
280-153860-20	MW-53B	97.2	
280-153860-21	Field Blank	97.9	
LCS 160-531167/1-A	Lab Control Sample	86.0	
LCS 160-531296/1-A	Lab Control Sample	97.2	
LCS 160-531366/1-A	Lab Control Sample	101	
LCSD 160-531366/2-A	Lab Control Sample Dup	99.5	
MB 160-531167/24-A	Method Blank	101	
MB 160-531296/23-A	Method Blank	96.1	
MB 160-531366/23-A	Method Blank	101	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
280-153860-1	MW-14BR	77.5	82.2
280-153860-2	MW-21B	79.8	84.1
280-153860-3	DUP-01	94.0	84.1
280-153860-4	MW-20B	89.9	83.7
280-153860-5	MW-32B	89.1	83.7
280-153860-6	MW-36B	95.9	84.1
280-153860-7	MW-37B	95.1	86.0
280-153860-7 MS	MW-37B	97.9	85.6
280-153860-7 MSD	MW-37B	100	85.6
280-153860-8	MW-38B	95.6	86.0

Tracer/Carrier Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
280-153860-9	MW-38C	101	85.2
280-153860-10	MW-39B	95.3	84.5
280-153860-11	MW-40B	86.8	87.5
280-153860-12	MW-41B	105	86.7
280-153860-13	MW-42B	96.6	81.5
280-153860-14	MW-43B	94.0	83.0
280-153860-15	MW-44B	95.3	86.4
280-153860-16	MW-45B	97.2	80.0
280-153860-17	MW-46B	96.6	83.4
280-153860-18	MW-47B	95.9	82.6
280-153860-19	MW-52B	83.2	84.1
280-153860-20	MW-53B	97.2	84.9
280-153860-21	Field Blank	97.9	81.5
LCS 160-531213/1-A	Lab Control Sample	86.0	76.6
LCS 160-531305/1-A	Lab Control Sample	97.2	82.6
LCS 160-531421/1-A	Lab Control Sample	101	84.5
LCSD 160-531421/2-A	Lab Control Sample Dup	99.5	86.4
MB 160-531213/24-A	Method Blank	101	85.2
MB 160-531305/23-A	Method Blank	96.1	63.9
MB 160-531421/23-A	Method Blank	101	89.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



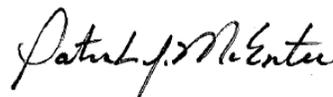
ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-153860-2
Client Project/Site: CCR - Basin Electric 2020 - LRS

For:
AECOM Technical Services Inc.
6200 S. Quebec Street
Greenwood Village, Colorado 80111

Attn: Ms. Katie Abbott



Authorized for release by:
10/21/2021 4:23:08 AM

Patrick McEntee, Client Service Manager
(303)736-0107
Patrick.McEntee@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Job ID: 280-153860-2

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: AECOM Technical Services Inc.

Project: CCR - Basin Electric 2020 - LRS

Report Number: 280-153860-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/7/2021 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 1.4° C, 1.4° C, 1.6° C, 1.8° C, 2.3° C, 2.3° C, 2.4° C and 4.1° C.

The radiochemical analysis requested on the COC is reported under 280-153860-1.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 280-153860-18. The sample time on the containers is 10:20, while the COC lists 09:20.

TOTAL RECOVERABLE METALS

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for Total Recoverable Metals in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/08/2021 and 10/19/2021 and analyzed on 10/09/2021 and 10/19/2021.

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

TOTAL RECOVERABLE METALS (ICPMS)

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/11/2021 and analyzed on 10/12/2021.

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

TOTAL MERCURY

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B

Case Narrative

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Job ID: 280-153860-2 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

(280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 10/09/2021.

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

TOTAL DISSOLVED SOLIDS

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 10/11/2021, 10/12/2021 and 10/13/2021.

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

ANIONS (28 DAYS)

Samples MW-14BR (280-153860-1), MW-21B (280-153860-2), DUP-01 (280-153860-3), MW-20B (280-153860-4), MW-32B (280-153860-5), MW-36B (280-153860-6), MW-37B (280-153860-7), MW-38B (280-153860-8), MW-38C (280-153860-9), MW-39B (280-153860-10), MW-40B (280-153860-11), MW-41B (280-153860-12), MW-42B (280-153860-13), MW-43B (280-153860-14), MW-44B (280-153860-15), MW-45B (280-153860-16), MW-46B (280-153860-17), MW-47B (280-153860-18), MW-52B (280-153860-19), MW-53B (280-153860-20) and Field Blank (280-153860-21) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A (28 Days). The samples were analyzed on 10/14/2021, 10/15/2021, 10/19/2021 and 10/20/2021.

Sulfate failed the recovery criteria high for the MS of sample MW-42BMS (280-153860-13) in batch 280-554095. Sulfate failed the recovery criteria high for the MSD of sample MW-42BMSD (280-153860-13) in batch 280-554095.

Samples MW-14BR (280-153860-1)[5X], MW-21B (280-153860-2)[5X], DUP-01 (280-153860-3)[5X], MW-20B (280-153860-4)[5X], MW-32B (280-153860-5)[5X], MW-36B (280-153860-6)[5X], MW-37B (280-153860-7)[5X], MW-38B (280-153860-8)[20X], MW-38C (280-153860-9)[5X], MW-39B (280-153860-10)[5X], MW-40B (280-153860-11)[5X], MW-41B (280-153860-12)[5X], MW-42B (280-153860-13)[10X], MW-43B (280-153860-14)[5X], MW-44B (280-153860-15)[5X], MW-45B (280-153860-16)[5X], MW-46B (280-153860-17)[5X], MW-47B (280-153860-18)[5X], MW-52B (280-153860-19)[5X] and MW-53B (280-153860-20)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-14BR

Lab Sample ID: 280-153860-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.147		0.100		mg/L	1		6010C	Total Recoverable
Calcium	174		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0503		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.0104		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0284		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0123		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0142		0.00500		mg/L	1		6020A	Total Recoverable
Thallium	0.00163		0.00100		mg/L	1		6020A	Total Recoverable
Chloride	87.5		3.00		mg/L	1		9056A	Total/NA
Sulfate	361		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	962		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-21B

Lab Sample ID: 280-153860-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.166		0.100		mg/L	1		6010C	Total Recoverable
Calcium	198		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0538		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.0122		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0345		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0155		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0343		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	184		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.686		0.500		mg/L	1		9056A	Total/NA
Sulfate	492		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1270		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 280-153860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.167		0.100		mg/L	1		6010C	Total Recoverable
Calcium	205		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0547		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.0123		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0335		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0146		0.0100		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 280-153860-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0335		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	185		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.675		0.500		mg/L	1		9056A	Total/NA
Sulfate	495		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1270		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-20B

Lab Sample ID: 280-153860-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.222		0.100		mg/L	1		6010C	Total Recoverable
Calcium	145		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0575		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0313		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	50.3		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.800		0.500		mg/L	1		9056A	Total/NA
Sulfate	395		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	962		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-32B

Lab Sample ID: 280-153860-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.296		0.100		mg/L	1		6010C	Total Recoverable
Calcium	196		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0333		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0714		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	94.3		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.604		0.500		mg/L	1		9056A	Total/NA
Sulfate	839		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1840		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-36B

Lab Sample ID: 280-153860-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.102		0.100		mg/L	1		6010C	Total Recoverable
Calcium	140		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0719		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0300		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00813		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	45.6		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.750		0.500		mg/L	1		9056A	Total/NA
Sulfate	357		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	887		10.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-37B

Lab Sample ID: 280-153860-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.160		0.100		mg/L	1		6010C	Total Recoverable
Calcium	221		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0668		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0347		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0674		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0140		0.00500		mg/L	1		6020A	Total Recoverable
Thallium	0.00148		0.00100		mg/L	1		6020A	Total Recoverable
Chloride	123		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.512		0.500		mg/L	1		9056A	Total/NA
Sulfate	582		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1370		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-38B

Lab Sample ID: 280-153860-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	3.21		0.100		mg/L	1		6010C	Total Recoverable
Calcium	331		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0170		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00812		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.124		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.237		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.00858		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	325		60.0		mg/L	20		9056A	Total/NA
Fluoride	7.69		0.500		mg/L	1		9056A	Total/NA
Sulfate	5400		250		mg/L	50		9056A	Total/NA
Total Dissolved Solids (TDS)	8670		100		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-38C

Lab Sample ID: 280-153860-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	103		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0471		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0212		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00584		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	29.5		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.566		0.500		mg/L	1		9056A	Total/NA
Sulfate	214		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	613		10.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-39B

Lab Sample ID: 280-153860-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.173		0.100		mg/L	1		6010C	Total Recoverable
Calcium	181		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0342		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0529		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	47.0		3.00		mg/L	1		9056A	Total/NA
Fluoride	1.19		0.500		mg/L	1		9056A	Total/NA
Sulfate	659		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1310		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-40B

Lab Sample ID: 280-153860-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.163		0.100		mg/L	1		6010C	Total Recoverable
Calcium	129		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0281		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0436		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	29.4		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.898		0.500		mg/L	1		9056A	Total/NA
Sulfate	314		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	873		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-41B

Lab Sample ID: 280-153860-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.902		0.100		mg/L	1		6010C	Total Recoverable
Calcium	195		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0193		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0411		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.118		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.00635		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	120		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.763		0.500		mg/L	1		9056A	Total/NA
Sulfate	985		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1950		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-42B

Lab Sample ID: 280-153860-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.621		0.100		mg/L	1		6010C	Total Recoverable
Calcium	193		0.200		mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-42B (Continued)

Lab Sample ID: 280-153860-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0262		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0653		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0653		0.0100		mg/L	1		6020A	Total Recoverable
Selenium	0.0102		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	173		3.00		mg/L	1		9056A	Total/NA
Fluoride	1.07		0.500		mg/L	1		9056A	Total/NA
Sulfate	1200	F1	50.0		mg/L	10		9056A	Total/NA
Total Dissolved Solids (TDS)	2260		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-43B

Lab Sample ID: 280-153860-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.305		0.100		mg/L	1		6010C	Total Recoverable
Calcium	92.2		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0257		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0264		0.00800		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0176		0.0100		mg/L	1		6020A	Total Recoverable
Chloride	36.3		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.587		0.500		mg/L	1		9056A	Total/NA
Sulfate	342		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	798		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-44B

Lab Sample ID: 280-153860-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.102		0.100		mg/L	1		6010C	Total Recoverable
Calcium	178		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0537		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00649		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0298		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00615		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	61.2		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.690		0.500		mg/L	1		9056A	Total/NA
Sulfate	428		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1050		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-45B

Lab Sample ID: 280-153860-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.183		0.100		mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-45B (Continued)

Lab Sample ID: 280-153860-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0458		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0297		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.00898		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	49.1		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.844		0.500		mg/L	1		9056A	Total/NA
Sulfate	362		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	902		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-46B

Lab Sample ID: 280-153860-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	92.1		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0531		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00672		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0191		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	30.0		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.694		0.500		mg/L	1		9056A	Total/NA
Sulfate	211		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	590		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-47B

Lab Sample ID: 280-153860-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.134		0.100		mg/L	1		6010C	Total Recoverable
Calcium	132		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0772		0.00500		mg/L	1		6020A	Total Recoverable
Chromium	0.00657		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0227		0.00800		mg/L	1		6020A	Total Recoverable
Chloride	33.1		3.00		mg/L	1		9056A	Total/NA
Sulfate	308		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	776		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-52B

Lab Sample ID: 280-153860-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.166		0.100		mg/L	1		6010C	Total Recoverable
Calcium	159		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0512		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0385		0.00800		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Detection Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-52B (Continued)

Lab Sample ID: 280-153860-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	49.1		3.00		mg/L	1		9056A	Total/NA
Sulfate	480		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	1090		20.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-53B

Lab Sample ID: 280-153860-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.115		0.100		mg/L	1		6010C	Total Recoverable
Calcium	103		0.200		mg/L	1		6010C	Total Recoverable
Barium	0.0527		0.00500		mg/L	1		6020A	Total Recoverable
Lithium	0.0350		0.00800		mg/L	1		6020A	Total Recoverable
Selenium	0.0106		0.00500		mg/L	1		6020A	Total Recoverable
Chloride	52.7		3.00		mg/L	1		9056A	Total/NA
Fluoride	0.948		0.500		mg/L	1		9056A	Total/NA
Sulfate	208		25.0		mg/L	5		9056A	Total/NA
Total Dissolved Solids (TDS)	683		10.0		mg/L	1		SM 2540C	Total/NA

Client Sample ID: Field Blank

Lab Sample ID: 280-153860-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids (TDS)	50.0		20.0		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL DEN
6020A	Metals (ICP/MS)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL DEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CAN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL DEN
7470A	Preparation, Mercury	SW846	TAL DEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-153860-1	MW-14BR	Water	10/05/21 15:45	10/07/21 15:20
280-153860-2	MW-21B	Water	10/05/21 16:50	10/07/21 15:20
280-153860-3	DUP-01	Water	10/05/21 00:00	10/07/21 15:20
280-153860-4	MW-20B	Water	10/05/21 15:00	10/07/21 15:20
280-153860-5	MW-32B	Water	10/06/21 15:15	10/07/21 15:20
280-153860-6	MW-36B	Water	10/06/21 16:00	10/07/21 15:20
280-153860-7	MW-37B	Water	10/06/21 16:45	10/07/21 15:20
280-153860-8	MW-38B	Water	10/06/21 09:30	10/07/21 15:20
280-153860-9	MW-38C	Water	10/06/21 08:20	10/07/21 15:20
280-153860-10	MW-39B	Water	10/06/21 14:30	10/07/21 15:20
280-153860-11	MW-40B	Water	10/06/21 13:30	10/07/21 15:20
280-153860-12	MW-41B	Water	10/05/21 14:15	10/07/21 15:20
280-153860-13	MW-42B	Water	10/05/21 13:15	10/07/21 15:20
280-153860-14	MW-43B	Water	10/05/21 12:30	10/07/21 15:20
280-153860-15	MW-44B	Water	10/05/21 11:45	10/07/21 15:20
280-153860-16	MW-45B	Water	10/05/21 11:00	10/07/21 15:20
280-153860-17	MW-46B	Water	10/05/21 10:20	10/07/21 15:20
280-153860-18	MW-47B	Water	10/05/21 09:20	10/07/21 15:20
280-153860-19	MW-52B	Water	10/07/21 08:45	10/07/21 15:20
280-153860-20	MW-53B	Water	10/06/21 12:00	10/07/21 15:20
280-153860-21	Field Blank	Water	10/05/21 15:55	10/07/21 15:20



Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.147		0.100		mg/L		10/08/21 14:14	10/09/21 08:15	1
Calcium	174		0.200		mg/L		10/08/21 14:14	10/09/21 08:15	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.166		0.100		mg/L		10/08/21 14:14	10/09/21 08:18	1
Calcium	198		0.200		mg/L		10/08/21 14:14	10/09/21 08:18	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.167		0.100		mg/L		10/08/21 14:14	10/09/21 08:22	1
Calcium	205		0.200		mg/L		10/08/21 14:14	10/09/21 08:22	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.222		0.100		mg/L		10/08/21 14:14	10/09/21 08:26	1
Calcium	145		0.200		mg/L		10/08/21 14:14	10/09/21 08:26	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.296		0.100		mg/L		10/08/21 14:14	10/09/21 08:29	1
Calcium	196		0.200		mg/L		10/08/21 14:14	10/09/21 08:29	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.102		0.100		mg/L		10/08/21 14:14	10/09/21 08:33	1
Calcium	140		0.200		mg/L		10/08/21 14:14	10/09/21 08:33	1

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.160		0.100		mg/L		10/08/21 14:14	10/09/21 08:50	1
Calcium	221		0.200		mg/L		10/08/21 14:14	10/09/21 08:50	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.21		0.100		mg/L		10/08/21 14:14	10/09/21 09:08	1
Calcium	331		0.200		mg/L		10/08/21 14:14	10/09/21 09:08	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		10/08/21 14:14	10/09/21 09:12	1
Calcium	103		0.200		mg/L		10/08/21 14:14	10/09/21 09:12	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.173		0.100		mg/L		10/08/21 14:14	10/09/21 09:16	1
Calcium	181		0.200		mg/L		10/08/21 14:14	10/09/21 09:16	1

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.163		0.100		mg/L		10/08/21 14:14	10/09/21 09:19	1
Calcium	129		0.200		mg/L		10/08/21 14:14	10/09/21 09:19	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.902		0.100		mg/L		10/08/21 14:14	10/09/21 09:37	1
Calcium	195		0.200		mg/L		10/08/21 14:14	10/09/21 09:37	1

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.621		0.100		mg/L		10/08/21 14:14	10/09/21 09:41	1
Calcium	193		0.200		mg/L		10/08/21 14:14	10/09/21 09:41	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.305		0.100		mg/L		10/08/21 14:14	10/09/21 09:44	1
Calcium	92.2		0.200		mg/L		10/08/21 14:14	10/09/21 09:44	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.102		0.100		mg/L		10/08/21 14:14	10/09/21 09:48	1
Calcium	178		0.200		mg/L		10/08/21 14:14	10/09/21 09:48	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.183		0.100		mg/L		10/08/21 14:14	10/09/21 09:51	1
Calcium	160		0.200		mg/L		10/08/21 14:14	10/09/21 09:51	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6010C - Metals (ICP) - Total Recoverable

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		10/08/21 14:14	10/09/21 09:55	1
Calcium	92.1		0.200		mg/L		10/08/21 14:14	10/09/21 09:55	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.134		0.100		mg/L		10/08/21 14:14	10/09/21 09:59	1
Calcium	132		0.200		mg/L		10/08/21 14:14	10/09/21 09:59	1

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.166		0.100		mg/L		10/08/21 14:14	10/09/21 10:02	1
Calcium	159		0.200		mg/L		10/08/21 14:14	10/09/21 10:02	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.115		0.100		mg/L		10/08/21 14:14	10/09/21 10:06	1
Calcium	103		0.200		mg/L		10/08/21 14:14	10/09/21 10:06	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		10/08/21 14:14	10/09/21 11:55	1
Calcium	ND		0.200		mg/L		10/19/21 07:45	10/19/21 16:01	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:01	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:01	1
Barium	0.0503		0.00500		mg/L		10/11/21 14:00	10/12/21 19:01	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:01	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:01	1
Chromium	0.0104		0.00500		mg/L		10/11/21 14:00	10/12/21 19:01	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:01	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:01	1
Lithium	0.0284		0.00800		mg/L		10/11/21 14:00	10/12/21 19:01	1
Molybdenum	0.0123		0.0100		mg/L		10/11/21 14:00	10/12/21 19:01	1
Selenium	0.0142		0.00500		mg/L		10/11/21 14:00	10/12/21 19:01	1
Thallium	0.00163		0.00100		mg/L		10/11/21 14:00	10/12/21 19:01	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:06	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:06	1
Barium	0.0538		0.00500		mg/L		10/11/21 14:00	10/12/21 19:06	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:06	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:06	1
Chromium	0.0122		0.00500		mg/L		10/11/21 14:00	10/12/21 19:06	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:06	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:06	1
Lithium	0.0345		0.00800		mg/L		10/11/21 14:00	10/12/21 19:06	1
Molybdenum	0.0155		0.0100		mg/L		10/11/21 14:00	10/12/21 19:06	1
Selenium	0.0343		0.00500		mg/L		10/11/21 14:00	10/12/21 19:06	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:06	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:10	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:10	1
Barium	0.0547		0.00500		mg/L		10/11/21 14:00	10/12/21 19:10	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:10	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:10	1
Chromium	0.0123		0.00500		mg/L		10/11/21 14:00	10/12/21 19:10	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:10	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:10	1
Lithium	0.0335		0.00800		mg/L		10/11/21 14:00	10/12/21 19:10	1
Molybdenum	0.0146		0.0100		mg/L		10/11/21 14:00	10/12/21 19:10	1
Selenium	0.0335		0.00500		mg/L		10/11/21 14:00	10/12/21 19:10	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:10	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:15	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:15	1
Barium	0.0575		0.00500		mg/L		10/11/21 14:00	10/12/21 19:15	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:15	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:15	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:15	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:15	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:15	1
Lithium	0.0313		0.00800		mg/L		10/11/21 14:00	10/12/21 19:15	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:15	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:15	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:15	1

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:19	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:19	1
Barium	0.0333		0.00500		mg/L		10/11/21 14:00	10/12/21 19:19	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:19	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:19	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:19	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:19	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:19	1
Lithium	0.0714		0.00800		mg/L		10/11/21 14:00	10/12/21 19:19	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:19	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:19	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:19	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:23	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:23	1
Barium	0.0719		0.00500		mg/L		10/11/21 14:00	10/12/21 19:23	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:23	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:23	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:23	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:23	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:23	1
Lithium	0.0300		0.00800		mg/L		10/11/21 14:00	10/12/21 19:23	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:23	1
Selenium	0.00813		0.00500		mg/L		10/11/21 14:00	10/12/21 19:23	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:23	1

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 18:31	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:31	1
Barium	0.0668		0.00500		mg/L		10/11/21 14:00	10/12/21 18:31	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:31	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:31	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:31	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:31	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:31	1
Lithium	0.0347		0.00800		mg/L		10/11/21 14:00	10/12/21 18:31	1
Molybdenum	0.0674		0.0100		mg/L		10/11/21 14:00	10/12/21 18:31	1
Selenium	0.0140		0.00500		mg/L		10/11/21 14:00	10/12/21 18:31	1
Thallium	0.00148		0.00100		mg/L		10/11/21 14:00	10/12/21 18:31	1

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Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:28	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:28	1
Barium	0.0170		0.00500		mg/L		10/11/21 14:00	10/12/21 19:28	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:28	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:28	1
Chromium	0.00812		0.00500		mg/L		10/11/21 14:00	10/12/21 19:28	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:28	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:28	1
Lithium	0.124		0.00800		mg/L		10/11/21 14:00	10/12/21 19:28	1
Molybdenum	0.237		0.0100		mg/L		10/11/21 14:00	10/12/21 19:28	1
Selenium	0.00858		0.00500		mg/L		10/11/21 14:00	10/12/21 19:28	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:28	1

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:41	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:41	1
Barium	0.0471		0.00500		mg/L		10/11/21 14:00	10/12/21 19:41	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:41	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:41	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:41	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:41	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:41	1
Lithium	0.0212		0.00800		mg/L		10/11/21 14:00	10/12/21 19:41	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:41	1
Selenium	0.00584		0.00500		mg/L		10/11/21 14:00	10/12/21 19:41	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:41	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:45	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:45	1
Barium	0.0342		0.00500		mg/L		10/11/21 14:00	10/12/21 19:45	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:45	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:45	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:45	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:45	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:45	1
Lithium	0.0529		0.00800		mg/L		10/11/21 14:00	10/12/21 19:45	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:45	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:45	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:45	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:50	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:50	1
Barium	0.0281		0.00500		mg/L		10/11/21 14:00	10/12/21 19:50	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:50	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:50	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:50	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:50	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:50	1
Lithium	0.0436		0.00800		mg/L		10/11/21 14:00	10/12/21 19:50	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 19:50	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:50	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:50	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:54	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:54	1
Barium	0.0193		0.00500		mg/L		10/11/21 14:00	10/12/21 19:54	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:54	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:54	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:54	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:54	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:54	1
Lithium	0.0411		0.00800		mg/L		10/11/21 14:00	10/12/21 19:54	1
Molybdenum	0.118		0.0100		mg/L		10/11/21 14:00	10/12/21 19:54	1
Selenium	0.00635		0.00500		mg/L		10/11/21 14:00	10/12/21 19:54	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:54	1

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 19:58	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:58	1
Barium	0.0262		0.00500		mg/L		10/11/21 14:00	10/12/21 19:58	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:58	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:58	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 19:58	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:58	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:58	1
Lithium	0.0653		0.00800		mg/L		10/11/21 14:00	10/12/21 19:58	1
Molybdenum	0.0653		0.0100		mg/L		10/11/21 14:00	10/12/21 19:58	1
Selenium	0.0102		0.00500		mg/L		10/11/21 14:00	10/12/21 19:58	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 19:58	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:03	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:03	1
Barium	0.0257		0.00500		mg/L		10/11/21 14:00	10/12/21 20:03	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:03	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:03	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:03	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:03	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:03	1
Lithium	0.0264		0.00800		mg/L		10/11/21 14:00	10/12/21 20:03	1
Molybdenum	0.0176		0.0100		mg/L		10/11/21 14:00	10/12/21 20:03	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:03	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:03	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:07	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:07	1
Barium	0.0537		0.00500		mg/L		10/11/21 14:00	10/12/21 20:07	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:07	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:07	1
Chromium	0.00649		0.00500		mg/L		10/11/21 14:00	10/12/21 20:07	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:07	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:07	1
Lithium	0.0298		0.00800		mg/L		10/11/21 14:00	10/12/21 20:07	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:07	1
Selenium	0.00615		0.00500		mg/L		10/11/21 14:00	10/12/21 20:07	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:07	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:12	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:12	1
Barium	0.0458		0.00500		mg/L		10/11/21 14:00	10/12/21 20:12	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:12	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:12	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:12	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:12	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:12	1
Lithium	0.0297		0.00800		mg/L		10/11/21 14:00	10/12/21 20:12	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:12	1
Selenium	0.00898		0.00500		mg/L		10/11/21 14:00	10/12/21 20:12	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:12	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:16	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:16	1
Barium	0.0531		0.00500		mg/L		10/11/21 14:00	10/12/21 20:16	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:16	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:16	1
Chromium	0.00672		0.00500		mg/L		10/11/21 14:00	10/12/21 20:16	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:16	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:16	1
Lithium	0.0191		0.00800		mg/L		10/11/21 14:00	10/12/21 20:16	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:16	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:16	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:16	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:20	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:20	1
Barium	0.0772		0.00500		mg/L		10/11/21 14:00	10/12/21 20:20	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:20	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:20	1
Chromium	0.00657		0.00500		mg/L		10/11/21 14:00	10/12/21 20:20	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:20	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:20	1
Lithium	0.0227		0.00800		mg/L		10/11/21 14:00	10/12/21 20:20	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:20	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:20	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:20	1

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:33	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:33	1
Barium	0.0512		0.00500		mg/L		10/11/21 14:00	10/12/21 20:33	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:33	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:33	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:33	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:33	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:33	1
Lithium	0.0385		0.00800		mg/L		10/11/21 14:00	10/12/21 20:33	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:33	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:33	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:33	1

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 20:38	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:38	1
Barium	0.0527		0.00500		mg/L		10/11/21 14:00	10/12/21 20:38	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:38	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:38	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 20:38	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:38	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:38	1
Lithium	0.0350		0.00800		mg/L		10/11/21 14:00	10/12/21 20:38	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 20:38	1
Selenium	0.0106		0.00500		mg/L		10/11/21 14:00	10/12/21 20:38	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 20:38	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 18:18	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:18	1
Barium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:18	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:18	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:18	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:18	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:18	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:18	1
Lithium	ND		0.00800		mg/L		10/11/21 14:00	10/12/21 18:18	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 18:18	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:18	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:18	1

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 17:57	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:10	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:12	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:15	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:17	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:20	1

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:22	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:30	1

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:37	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:41	1

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:44	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:46	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 7470A - Mercury (CVAA)

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:49	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:51	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:54	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:57	1

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 18:59	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 19:02	1

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 19:09	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 19:12	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 19:14	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Client Sample ID: MW-14BR
Date Collected: 10/05/21 15:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.5		3.00		mg/L			10/14/21 13:02	1
Fluoride	ND		0.500		mg/L			10/19/21 15:34	1
Sulfate	361		25.0		mg/L			10/14/21 13:16	5
Total Dissolved Solids (TDS)	962		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-21B
Date Collected: 10/05/21 16:50
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		3.00		mg/L			10/14/21 13:30	1
Fluoride	0.686		0.500		mg/L			10/19/21 15:48	1
Sulfate	492		25.0		mg/L			10/14/21 13:44	5
Total Dissolved Solids (TDS)	1270		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: DUP-01
Date Collected: 10/05/21 00:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		3.00		mg/L			10/14/21 13:58	1
Fluoride	0.675		0.500		mg/L			10/19/21 16:03	1
Sulfate	495		25.0		mg/L			10/14/21 14:12	5
Total Dissolved Solids (TDS)	1270		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-20B
Date Collected: 10/05/21 15:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.3		3.00		mg/L			10/14/21 14:26	1
Fluoride	0.800		0.500		mg/L			10/19/21 16:18	1
Sulfate	395		25.0		mg/L			10/14/21 14:40	5
Total Dissolved Solids (TDS)	962		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-32B
Date Collected: 10/06/21 15:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.3		3.00		mg/L			10/14/21 15:22	1
Fluoride	0.604		0.500		mg/L			10/19/21 16:33	1
Sulfate	839		25.0		mg/L			10/14/21 15:36	5
Total Dissolved Solids (TDS)	1840		20.0		mg/L			10/12/21 09:26	1

Client Sample ID: MW-36B
Date Collected: 10/06/21 16:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		3.00		mg/L			10/14/21 15:50	1
Fluoride	0.750		0.500		mg/L			10/19/21 16:48	1
Sulfate	357		25.0		mg/L			10/14/21 16:04	5
Total Dissolved Solids (TDS)	887		10.0		mg/L			10/12/21 09:26	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Client Sample ID: MW-37B
Date Collected: 10/06/21 16:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		3.00		mg/L			10/14/21 16:18	1
Fluoride	0.512		0.500		mg/L			10/19/21 17:03	1
Sulfate	582		25.0		mg/L			10/14/21 17:14	5
Total Dissolved Solids (TDS)	1370		20.0		mg/L			10/12/21 09:26	1

Client Sample ID: MW-38B
Date Collected: 10/06/21 09:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		60.0		mg/L			10/14/21 18:53	20
Fluoride	7.69		0.500		mg/L			10/19/21 18:32	1
Sulfate	5400		250		mg/L			10/14/21 19:07	50
Total Dissolved Solids (TDS)	8670		100		mg/L			10/12/21 09:26	1

Client Sample ID: MW-38C
Date Collected: 10/06/21 08:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.5		3.00		mg/L			10/14/21 19:21	1
Fluoride	0.566		0.500		mg/L			10/19/21 18:47	1
Sulfate	214		25.0		mg/L			10/14/21 19:35	5
Total Dissolved Solids (TDS)	613		10.0		mg/L			10/12/21 09:26	1

Client Sample ID: MW-39B
Date Collected: 10/06/21 14:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		3.00		mg/L			10/14/21 19:49	1
Fluoride	1.19		0.500		mg/L			10/19/21 19:02	1
Sulfate	659		25.0		mg/L			10/14/21 20:03	5
Total Dissolved Solids (TDS)	1310		20.0		mg/L			10/12/21 09:26	1

Client Sample ID: MW-40B
Date Collected: 10/06/21 13:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		3.00		mg/L			10/14/21 20:17	1
Fluoride	0.898		0.500		mg/L			10/19/21 19:17	1
Sulfate	314		25.0		mg/L			10/14/21 20:59	5
Total Dissolved Solids (TDS)	873		10.0		mg/L			10/12/21 09:26	1

Client Sample ID: MW-41B
Date Collected: 10/05/21 14:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		3.00		mg/L			10/14/21 21:13	1
Fluoride	0.763		0.500		mg/L			10/19/21 19:32	1
Sulfate	985		25.0		mg/L			10/14/21 21:27	5
Total Dissolved Solids (TDS)	1950		20.0		mg/L			10/11/21 11:27	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Client Sample ID: MW-42B
Date Collected: 10/05/21 13:15
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		3.00		mg/L			10/14/21 21:41	1
Fluoride	1.07		0.500		mg/L			10/19/21 19:47	1
Sulfate	1200	F1	50.0		mg/L			10/19/21 14:21	10
Total Dissolved Solids (TDS)	2260		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-43B
Date Collected: 10/05/21 12:30
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		3.00		mg/L			10/14/21 22:09	1
Fluoride	0.587		0.500		mg/L			10/19/21 20:02	1
Sulfate	342		25.0		mg/L			10/14/21 22:23	5
Total Dissolved Solids (TDS)	798		10.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-44B
Date Collected: 10/05/21 11:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		3.00		mg/L			10/14/21 22:37	1
Fluoride	0.690		0.500		mg/L			10/19/21 20:17	1
Sulfate	428		25.0		mg/L			10/14/21 22:51	5
Total Dissolved Solids (TDS)	1050		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-45B
Date Collected: 10/05/21 11:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		3.00		mg/L			10/14/21 23:05	1
Fluoride	0.844		0.500		mg/L			10/19/21 20:32	1
Sulfate	362		25.0		mg/L			10/14/21 23:47	5
Total Dissolved Solids (TDS)	902		20.0		mg/L			10/11/21 11:27	1

Client Sample ID: MW-46B
Date Collected: 10/05/21 10:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.0		3.00		mg/L			10/15/21 00:01	1
Fluoride	0.694		0.500		mg/L			10/19/21 20:47	1
Sulfate	211		25.0		mg/L			10/15/21 00:15	5
Total Dissolved Solids (TDS)	590		10.0		mg/L			10/11/21 11:29	1

Client Sample ID: MW-47B
Date Collected: 10/05/21 09:20
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-18
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		3.00		mg/L			10/15/21 00:29	1
Fluoride	ND		0.500		mg/L			10/19/21 21:32	1
Sulfate	308		25.0		mg/L			10/15/21 01:25	5
Total Dissolved Solids (TDS)	776		10.0		mg/L			10/11/21 11:29	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Client Sample ID: MW-52B
Date Collected: 10/07/21 08:45
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-19
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1		3.00		mg/L			10/15/21 03:31	1
Fluoride	ND		0.500		mg/L			10/19/21 21:46	1
Sulfate	480		25.0		mg/L			10/15/21 03:45	5
Total Dissolved Solids (TDS)	1090		20.0		mg/L			10/13/21 09:24	1

Client Sample ID: MW-53B
Date Collected: 10/06/21 12:00
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-20
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		3.00		mg/L			10/15/21 03:59	1
Fluoride	0.948		0.500		mg/L			10/19/21 22:01	1
Sulfate	208		25.0		mg/L			10/19/21 15:26	5
Total Dissolved Solids (TDS)	683		10.0		mg/L			10/12/21 09:26	1

Client Sample ID: Field Blank
Date Collected: 10/05/21 15:55
Date Received: 10/07/21 15:20

Lab Sample ID: 280-153860-21
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			10/15/21 04:13	1
Fluoride	ND		0.500		mg/L			10/20/21 03:00	1
Sulfate	ND		5.00		mg/L			10/15/21 04:13	1
Total Dissolved Solids (TDS)	50.0		20.0		mg/L			10/11/21 11:29	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 280-552760/1-A
Matrix: Water
Analysis Batch: 553009

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 552760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		10/08/21 14:14	10/09/21 08:08	1
Calcium	ND		0.200		mg/L		10/08/21 14:14	10/09/21 08:08	1

Lab Sample ID: LCS 280-552760/2-A
Matrix: Water
Analysis Batch: 553009

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 552760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.9795		mg/L		98	86 - 110
Calcium	50.0	49.26		mg/L		99	90 - 111

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 553009

Client Sample ID: MW-37B
Prep Type: Total Recoverable
Prep Batch: 552760

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.160		1.00	1.178		mg/L		92	87 - 113
Calcium	221		50.0	270.6	4	mg/L		55	48 - 153

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 553009

Client Sample ID: MW-37B
Prep Type: Total Recoverable
Prep Batch: 552760

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	0.160		1.00	1.182		mg/L		92	87 - 113	0	20
Calcium	221		50.0	275.0	4	mg/L		64	48 - 153	2	20

Lab Sample ID: MB 280-552761/1-A
Matrix: Water
Analysis Batch: 553071

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 552761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.100		mg/L		10/08/21 14:14	10/09/21 11:48	1
Calcium	ND		0.200		mg/L		10/08/21 14:14	10/09/21 11:48	1

Lab Sample ID: LCS 280-552761/2-A
Matrix: Water
Analysis Batch: 553071

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 552761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.9809		mg/L		98	86 - 110
Calcium	50.0	53.27		mg/L		107	90 - 111

Lab Sample ID: 280-153860-21 MS
Matrix: Water
Analysis Batch: 553071

Client Sample ID: Field Blank
Prep Type: Total Recoverable
Prep Batch: 552761

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	ND		1.00	0.9855		mg/L		99	87 - 113

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 280-153860-21 MSD
Matrix: Water
Analysis Batch: 553071

Client Sample ID: Field Blank
Prep Type: Total Recoverable
Prep Batch: 552761

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	ND		1.00	0.9951		mg/L		100	87 - 113	1	20

Lab Sample ID: MB 280-554011/1-A
Matrix: Water
Analysis Batch: 554198

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 554011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.200		mg/L		10/19/21 07:45	10/19/21 15:51	1

Lab Sample ID: LCS 280-554011/2-A
Matrix: Water
Analysis Batch: 554198

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 554011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50.0	48.50		mg/L		97	90 - 111

Lab Sample ID: LCSD 280-554011/3-A
Matrix: Water
Analysis Batch: 554198

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 554011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	50.0	48.93		mg/L		98	90 - 111	1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-507626/1-A
Matrix: Water
Analysis Batch: 507999

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 507626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 16:11	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 16:11	1
Barium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 16:11	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 16:11	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 16:11	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 16:11	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 16:11	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 16:11	1
Lithium	ND		0.00800		mg/L		10/11/21 14:00	10/12/21 16:11	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 16:11	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 16:11	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 16:11	1

Lab Sample ID: LCS 240-507626/2-A
Matrix: Water
Analysis Batch: 507999

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 507626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1126		mg/L		113	80 - 120
Arsenic	1.00	1.030		mg/L		103	80 - 120

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-507626/2-A
Matrix: Water
Analysis Batch: 507999

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 507626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.111		mg/L		111	80 - 120
Beryllium	0.500	0.5400		mg/L		108	80 - 120
Cadmium	0.500	0.5290		mg/L		106	80 - 120
Chromium	0.500	0.5505		mg/L		110	80 - 120
Cobalt	0.500	0.5536		mg/L		111	80 - 120
Lead	0.500	0.5522		mg/L		110	80 - 120
Lithium	0.500	0.5296		mg/L		106	80 - 120
Molybdenum	0.500	0.5323		mg/L		106	80 - 120
Selenium	1.00	1.019		mg/L		102	80 - 120
Thallium	1.00	1.092		mg/L		109	80 - 120

Lab Sample ID: MB 240-507654/1-A
Matrix: Water
Analysis Batch: 507999

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 507654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00200		mg/L		10/11/21 14:00	10/12/21 18:22	1
Arsenic	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:22	1
Barium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:22	1
Beryllium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:22	1
Cadmium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:22	1
Chromium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:22	1
Cobalt	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:22	1
Lead	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:22	1
Lithium	ND		0.00800		mg/L		10/11/21 14:00	10/12/21 18:22	1
Molybdenum	ND		0.0100		mg/L		10/11/21 14:00	10/12/21 18:22	1
Selenium	ND		0.00500		mg/L		10/11/21 14:00	10/12/21 18:22	1
Thallium	ND		0.00100		mg/L		10/11/21 14:00	10/12/21 18:22	1

Lab Sample ID: LCS 240-507654/2-A
Matrix: Water
Analysis Batch: 507999

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 507654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.1096		mg/L		110	80 - 120
Arsenic	1.00	0.9657		mg/L		97	80 - 120
Barium	1.00	1.082		mg/L		108	80 - 120
Beryllium	0.500	0.5313		mg/L		106	80 - 120
Cadmium	0.500	0.5141		mg/L		103	80 - 120
Chromium	0.500	0.5565		mg/L		111	80 - 120
Cobalt	0.500	0.5637		mg/L		113	80 - 120
Lead	0.500	0.5486		mg/L		110	80 - 120
Lithium	0.500	0.5171		mg/L		103	80 - 120
Molybdenum	0.500	0.5186		mg/L		104	80 - 120
Selenium	1.00	0.9476		mg/L		95	80 - 120
Thallium	1.00	1.076		mg/L		108	80 - 120

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 507999

Client Sample ID: MW-37B
Prep Type: Total Recoverable
Prep Batch: 507654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Antimony	ND		0.100	0.1030		mg/L		103	75 - 125	
Arsenic	ND		1.00	0.9341		mg/L		93	75 - 125	
Barium	0.0668		1.00	1.104		mg/L		104	75 - 125	
Beryllium	ND		0.500	0.4687		mg/L		94	75 - 125	
Cadmium	ND		0.500	0.4699		mg/L		94	75 - 125	
Chromium	ND		0.500	0.5104		mg/L		102	75 - 125	
Cobalt	ND		0.500	0.5098		mg/L		102	75 - 125	
Lead	ND		0.500	0.5009		mg/L		100	75 - 125	
Lithium	0.0347		0.500	0.5139		mg/L		96	75 - 125	
Molybdenum	0.0674		0.500	0.5758		mg/L		102	75 - 125	
Selenium	0.0140		1.00	0.9061		mg/L		89	75 - 125	
Thallium	0.00148		1.00	0.9904		mg/L		99	75 - 125	

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 507999

Client Sample ID: MW-37B
Prep Type: Total Recoverable
Prep Batch: 507654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	ND		0.100	0.1088		mg/L		109	75 - 125	5	20
Arsenic	ND		1.00	1.006		mg/L		100	75 - 125	7	20
Barium	0.0668		1.00	1.170		mg/L		110	75 - 125	6	20
Beryllium	ND		0.500	0.5064		mg/L		101	75 - 125	8	20
Cadmium	ND		0.500	0.4983		mg/L		100	75 - 125	6	20
Chromium	ND		0.500	0.5525		mg/L		111	75 - 125	8	20
Cobalt	ND		0.500	0.5457		mg/L		109	75 - 125	7	20
Lead	ND		0.500	0.5316		mg/L		106	75 - 125	6	20
Lithium	0.0347		0.500	0.5561		mg/L		104	75 - 125	8	20
Molybdenum	0.0674		0.500	0.6151		mg/L		110	75 - 125	7	20
Selenium	0.0140		1.00	0.9691		mg/L		96	75 - 125	7	20
Thallium	0.00148		1.00	1.049		mg/L		105	75 - 125	6	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 280-552855/1-A
Matrix: Water
Analysis Batch: 552943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/L		10/09/21 14:30	10/09/21 19:19	1

Lab Sample ID: LCS 280-552855/2-A
Matrix: Water
Analysis Batch: 552943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Mercury	0.00500	0.005111		mg/L		102	84 - 120	

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 280-153860-1 MS
Matrix: Water
Analysis Batch: 552943

Client Sample ID: MW-14BR
Prep Type: Total/NA
Prep Batch: 552855
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		0.00500	0.005145		mg/L		103	75 - 125

Lab Sample ID: 280-153860-1 MSD
Matrix: Water
Analysis Batch: 552943

Client Sample ID: MW-14BR
Prep Type: Total/NA
Prep Batch: 552855
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.00500	0.005147		mg/L		103	75 - 125	0	20

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 552943

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 552855
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND		0.00500	0.005019		mg/L		100	75 - 125

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 552943

Client Sample ID: MW-37B
Prep Type: Total/NA
Prep Batch: 552855
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		0.00500	0.004880		mg/L		98	75 - 125	3	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-553424/13
Matrix: Water
Analysis Batch: 553424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			10/13/21 19:03	1
Sulfate	ND		5.00		mg/L			10/13/21 19:03	1

Lab Sample ID: MB 280-553424/77
Matrix: Water
Analysis Batch: 553424

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.00		mg/L			10/15/21 03:17	1
Sulfate	ND		5.00		mg/L			10/15/21 03:17	1

Lab Sample ID: LCS 280-553424/11
Matrix: Water
Analysis Batch: 553424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	100	99.34		mg/L		99	90 - 110
Sulfate	100	100.1		mg/L		100	90 - 110

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-553424/75
Matrix: Water
Analysis Batch: 553424

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100.1		mg/L		100	90 - 110
Sulfate	100	99.87		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-553424/12
Matrix: Water
Analysis Batch: 553424

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	99.34		mg/L		99	90 - 110	0	10
Sulfate	100	99.98		mg/L		100	90 - 110	0	10

Lab Sample ID: LCSD 280-553424/76
Matrix: Water
Analysis Batch: 553424

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100.3		mg/L		100	90 - 110	0	10
Sulfate	100	100.1		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-553424/10
Matrix: Water
Analysis Batch: 553424

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	5.029		mg/L		101	50 - 150
Sulfate	5.00	ND		mg/L		99	50 - 150

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	123		50.0	170.8		mg/L		96	80 - 120

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	582		250	808.0		mg/L		90	80 - 120

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	123		50.0	171.5		mg/L		98	80 - 120	0	20

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	582		250	804.3		mg/L		89	80 - 120	0	20

Lab Sample ID: 280-153860-18 MS
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33.1		50.0	83.62		mg/L		101	80 - 120		

Lab Sample ID: 280-153860-18 MS
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	308		250	554.1		mg/L		98	80 - 120		

Lab Sample ID: 280-153860-18 MSD
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	33.1		50.0	84.30		mg/L		102	80 - 120	1	20

Lab Sample ID: 280-153860-18 MSD
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	308		250	553.5		mg/L		98	80 - 120	0	20

Lab Sample ID: 280-153860-7 DU
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	123		122.6		mg/L		0.1	15

Lab Sample ID: 280-153860-7 DU
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	582		567.1		mg/L		3	15

Lab Sample ID: 280-153860-18 DU
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	33.1		33.22		mg/L		0.5	15

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 280-153860-18 DU
Matrix: Water
Analysis Batch: 553424

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	308		309.4		mg/L		0.3	15

Lab Sample ID: MB 280-553991/14
Matrix: Water
Analysis Batch: 553991

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.500		mg/L			10/18/21 18:15	1

Lab Sample ID: MB 280-553991/45
Matrix: Water
Analysis Batch: 553991

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.500		mg/L			10/19/21 23:01	1

Lab Sample ID: LCS 280-553991/12
Matrix: Water
Analysis Batch: 553991

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.814		mg/L		96	90 - 110

Lab Sample ID: LCS 280-553991/43
Matrix: Water
Analysis Batch: 553991

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	5.00	4.968		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-553991/13
Matrix: Water
Analysis Batch: 553991

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.991		mg/L		100	90 - 110	4	10

Lab Sample ID: LCSD 280-553991/44
Matrix: Water
Analysis Batch: 553991

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	5.00	4.901		mg/L		98	90 - 110	1	10

Lab Sample ID: MRL 280-553991/11
Matrix: Water
Analysis Batch: 553991

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.500	ND		mg/L		97	50 - 150

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 280-153860-7 MS
Matrix: Water
Analysis Batch: 553991

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.512		5.00	5.806		mg/L		106	80 - 120

Lab Sample ID: 280-153860-7 MSD
Matrix: Water
Analysis Batch: 553991

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.512		5.00	5.261		mg/L		95	80 - 120	10	20

Lab Sample ID: 280-153860-21 MS
Matrix: Water
Analysis Batch: 553991

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND		5.00	5.207		mg/L		104	80 - 120

Lab Sample ID: 280-153860-21 MSD
Matrix: Water
Analysis Batch: 553991

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND		5.00	5.432		mg/L		109	80 - 120	4	20

Lab Sample ID: 280-153860-7 DU
Matrix: Water
Analysis Batch: 553991

Client Sample ID: MW-37B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.512		0.5150		mg/L		0.7	15

Lab Sample ID: 280-153860-21 DU
Matrix: Water
Analysis Batch: 553991

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-554095/6
Matrix: Water
Analysis Batch: 554095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.00		mg/L			10/19/21 12:08	1

Lab Sample ID: LCS 280-554095/4
Matrix: Water
Analysis Batch: 554095

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	97.38		mg/L		97	90 - 110

Eurofins TestAmerica, Denver

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: LCSD 280-554095/5
Matrix: Water
Analysis Batch: 554095

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	97.56		mg/L		98	90 - 110	0	10

Lab Sample ID: MRL 280-554095/3
Matrix: Water
Analysis Batch: 554095

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.00	ND		mg/L		83	50 - 150		

Lab Sample ID: 280-153860-13 MS
Matrix: Water
Analysis Batch: 554095

Client Sample ID: MW-42B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1200	F1	500	1817	F1	mg/L		123	80 - 120		

Lab Sample ID: 280-153860-13 MSD
Matrix: Water
Analysis Batch: 554095

Client Sample ID: MW-42B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1200	F1	500	1835	F1	mg/L		127	80 - 120	1	20

Lab Sample ID: 280-153860-13 DU
Matrix: Water
Analysis Batch: 554095

Client Sample ID: MW-42B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1200	F1		1200		mg/L				0	15

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

Lab Sample ID: MB 280-553028/1
Matrix: Water
Analysis Batch: 553028

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10.0		mg/L			10/11/21 11:27	1

Lab Sample ID: LCS 280-553028/2
Matrix: Water
Analysis Batch: 553028

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids (TDS)	503	484.0		mg/L		96	88 - 114		

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

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

Lab Sample ID: 280-153860-16 DU
Matrix: Water
Analysis Batch: 553028

Client Sample ID: MW-45B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	902		914.0		mg/L		1	10

Lab Sample ID: MB 280-553032/1
Matrix: Water
Analysis Batch: 553032

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10.0		mg/L			10/11/21 11:29	1

Lab Sample ID: LCS 280-553032/2
Matrix: Water
Analysis Batch: 553032

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	503	507.0		mg/L		101	88 - 114

Lab Sample ID: 280-153860-18 DU
Matrix: Water
Analysis Batch: 553032

Client Sample ID: MW-47B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	776		783.0		mg/L		0.9	10

Lab Sample ID: MB 280-553149/1
Matrix: Water
Analysis Batch: 553149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10.0		mg/L			10/12/21 09:26	1

Lab Sample ID: LCS 280-553149/2
Matrix: Water
Analysis Batch: 553149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	503	496.0		mg/L		99	88 - 114

Lab Sample ID: MB 280-553335/1
Matrix: Water
Analysis Batch: 553335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		10.0		mg/L			10/13/21 09:24	1

Lab Sample ID: LCS 280-553335/2
Matrix: Water
Analysis Batch: 553335

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	503	501.0		mg/L		100	88 - 114

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Metals

Prep Batch: 507626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-21	Field Blank	Total Recoverable	Water	3005A	
MB 240-507626/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-507626/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 507654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total Recoverable	Water	3005A	
280-153860-2	MW-21B	Total Recoverable	Water	3005A	
280-153860-3	DUP-01	Total Recoverable	Water	3005A	
280-153860-4	MW-20B	Total Recoverable	Water	3005A	
280-153860-5	MW-32B	Total Recoverable	Water	3005A	
280-153860-6	MW-36B	Total Recoverable	Water	3005A	
280-153860-7	MW-37B	Total Recoverable	Water	3005A	
280-153860-8	MW-38B	Total Recoverable	Water	3005A	
280-153860-9	MW-38C	Total Recoverable	Water	3005A	
280-153860-10	MW-39B	Total Recoverable	Water	3005A	
280-153860-11	MW-40B	Total Recoverable	Water	3005A	
280-153860-12	MW-41B	Total Recoverable	Water	3005A	
280-153860-13	MW-42B	Total Recoverable	Water	3005A	
280-153860-14	MW-43B	Total Recoverable	Water	3005A	
280-153860-15	MW-44B	Total Recoverable	Water	3005A	
280-153860-16	MW-45B	Total Recoverable	Water	3005A	
280-153860-17	MW-46B	Total Recoverable	Water	3005A	
280-153860-18	MW-47B	Total Recoverable	Water	3005A	
280-153860-19	MW-52B	Total Recoverable	Water	3005A	
280-153860-20	MW-53B	Total Recoverable	Water	3005A	
MB 240-507654/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-507654/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-153860-7 MS	MW-37B	Total Recoverable	Water	3005A	
280-153860-7 MSD	MW-37B	Total Recoverable	Water	3005A	

Analysis Batch: 507999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total Recoverable	Water	6020A	507654
280-153860-2	MW-21B	Total Recoverable	Water	6020A	507654
280-153860-3	DUP-01	Total Recoverable	Water	6020A	507654
280-153860-4	MW-20B	Total Recoverable	Water	6020A	507654
280-153860-5	MW-32B	Total Recoverable	Water	6020A	507654
280-153860-6	MW-36B	Total Recoverable	Water	6020A	507654
280-153860-7	MW-37B	Total Recoverable	Water	6020A	507654
280-153860-8	MW-38B	Total Recoverable	Water	6020A	507654
280-153860-9	MW-38C	Total Recoverable	Water	6020A	507654
280-153860-10	MW-39B	Total Recoverable	Water	6020A	507654
280-153860-11	MW-40B	Total Recoverable	Water	6020A	507654
280-153860-12	MW-41B	Total Recoverable	Water	6020A	507654
280-153860-13	MW-42B	Total Recoverable	Water	6020A	507654
280-153860-14	MW-43B	Total Recoverable	Water	6020A	507654
280-153860-15	MW-44B	Total Recoverable	Water	6020A	507654
280-153860-16	MW-45B	Total Recoverable	Water	6020A	507654
280-153860-17	MW-46B	Total Recoverable	Water	6020A	507654
280-153860-18	MW-47B	Total Recoverable	Water	6020A	507654

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QC Association Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Metals (Continued)

Analysis Batch: 507999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-19	MW-52B	Total Recoverable	Water	6020A	507654
280-153860-20	MW-53B	Total Recoverable	Water	6020A	507654
280-153860-21	Field Blank	Total Recoverable	Water	6020A	507626
MB 240-507626/1-A	Method Blank	Total Recoverable	Water	6020A	507626
MB 240-507654/1-A	Method Blank	Total Recoverable	Water	6020A	507654
LCS 240-507626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	507626
LCS 240-507654/2-A	Lab Control Sample	Total Recoverable	Water	6020A	507654
280-153860-7 MS	MW-37B	Total Recoverable	Water	6020A	507654
280-153860-7 MSD	MW-37B	Total Recoverable	Water	6020A	507654

Prep Batch: 552760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total Recoverable	Water	3005A	
280-153860-2	MW-21B	Total Recoverable	Water	3005A	
280-153860-3	DUP-01	Total Recoverable	Water	3005A	
280-153860-4	MW-20B	Total Recoverable	Water	3005A	
280-153860-5	MW-32B	Total Recoverable	Water	3005A	
280-153860-6	MW-36B	Total Recoverable	Water	3005A	
280-153860-7	MW-37B	Total Recoverable	Water	3005A	
280-153860-8	MW-38B	Total Recoverable	Water	3005A	
280-153860-9	MW-38C	Total Recoverable	Water	3005A	
280-153860-10	MW-39B	Total Recoverable	Water	3005A	
280-153860-11	MW-40B	Total Recoverable	Water	3005A	
280-153860-12	MW-41B	Total Recoverable	Water	3005A	
280-153860-13	MW-42B	Total Recoverable	Water	3005A	
280-153860-14	MW-43B	Total Recoverable	Water	3005A	
280-153860-15	MW-44B	Total Recoverable	Water	3005A	
280-153860-16	MW-45B	Total Recoverable	Water	3005A	
280-153860-17	MW-46B	Total Recoverable	Water	3005A	
280-153860-18	MW-47B	Total Recoverable	Water	3005A	
280-153860-19	MW-52B	Total Recoverable	Water	3005A	
280-153860-20	MW-53B	Total Recoverable	Water	3005A	
MB 280-552760/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-552760/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-153860-7 MS	MW-37B	Total Recoverable	Water	3005A	
280-153860-7 MSD	MW-37B	Total Recoverable	Water	3005A	

Prep Batch: 552761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-21	Field Blank	Total Recoverable	Water	3005A	
MB 280-552761/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-552761/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
280-153860-21 MS	Field Blank	Total Recoverable	Water	3005A	
280-153860-21 MSD	Field Blank	Total Recoverable	Water	3005A	

Prep Batch: 552855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	7470A	
280-153860-2	MW-21B	Total/NA	Water	7470A	
280-153860-3	DUP-01	Total/NA	Water	7470A	
280-153860-4	MW-20B	Total/NA	Water	7470A	

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Metals (Continued)

Prep Batch: 552855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-5	MW-32B	Total/NA	Water	7470A	
280-153860-6	MW-36B	Total/NA	Water	7470A	
280-153860-7	MW-37B	Total/NA	Water	7470A	
280-153860-8	MW-38B	Total/NA	Water	7470A	
280-153860-9	MW-38C	Total/NA	Water	7470A	
280-153860-10	MW-39B	Total/NA	Water	7470A	
280-153860-11	MW-40B	Total/NA	Water	7470A	
280-153860-12	MW-41B	Total/NA	Water	7470A	
280-153860-13	MW-42B	Total/NA	Water	7470A	
280-153860-14	MW-43B	Total/NA	Water	7470A	
280-153860-15	MW-44B	Total/NA	Water	7470A	
280-153860-16	MW-45B	Total/NA	Water	7470A	
280-153860-17	MW-46B	Total/NA	Water	7470A	
280-153860-18	MW-47B	Total/NA	Water	7470A	
280-153860-19	MW-52B	Total/NA	Water	7470A	
280-153860-20	MW-53B	Total/NA	Water	7470A	
280-153860-21	Field Blank	Total/NA	Water	7470A	
MB 280-552855/1-A	Method Blank	Total/NA	Water	7470A	
LCS 280-552855/2-A	Lab Control Sample	Total/NA	Water	7470A	
280-153860-1 MS	MW-14BR	Total/NA	Water	7470A	
280-153860-1 MSD	MW-14BR	Total/NA	Water	7470A	
280-153860-7 MS	MW-37B	Total/NA	Water	7470A	
280-153860-7 MSD	MW-37B	Total/NA	Water	7470A	

Analysis Batch: 552943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	7470A	552855
280-153860-2	MW-21B	Total/NA	Water	7470A	552855
280-153860-3	DUP-01	Total/NA	Water	7470A	552855
280-153860-4	MW-20B	Total/NA	Water	7470A	552855
280-153860-5	MW-32B	Total/NA	Water	7470A	552855
280-153860-6	MW-36B	Total/NA	Water	7470A	552855
280-153860-7	MW-37B	Total/NA	Water	7470A	552855
280-153860-8	MW-38B	Total/NA	Water	7470A	552855
280-153860-9	MW-38C	Total/NA	Water	7470A	552855
280-153860-10	MW-39B	Total/NA	Water	7470A	552855
280-153860-11	MW-40B	Total/NA	Water	7470A	552855
280-153860-12	MW-41B	Total/NA	Water	7470A	552855
280-153860-13	MW-42B	Total/NA	Water	7470A	552855
280-153860-14	MW-43B	Total/NA	Water	7470A	552855
280-153860-15	MW-44B	Total/NA	Water	7470A	552855
280-153860-16	MW-45B	Total/NA	Water	7470A	552855
280-153860-17	MW-46B	Total/NA	Water	7470A	552855
280-153860-18	MW-47B	Total/NA	Water	7470A	552855
280-153860-19	MW-52B	Total/NA	Water	7470A	552855
280-153860-20	MW-53B	Total/NA	Water	7470A	552855
280-153860-21	Field Blank	Total/NA	Water	7470A	552855
MB 280-552855/1-A	Method Blank	Total/NA	Water	7470A	552855
LCS 280-552855/2-A	Lab Control Sample	Total/NA	Water	7470A	552855
280-153860-1 MS	MW-14BR	Total/NA	Water	7470A	552855
280-153860-1 MSD	MW-14BR	Total/NA	Water	7470A	552855

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Metals (Continued)

Analysis Batch: 552943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-7 MS	MW-37B	Total/NA	Water	7470A	552855
280-153860-7 MSD	MW-37B	Total/NA	Water	7470A	552855

Analysis Batch: 553009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total Recoverable	Water	6010C	552760
280-153860-2	MW-21B	Total Recoverable	Water	6010C	552760
280-153860-3	DUP-01	Total Recoverable	Water	6010C	552760
280-153860-4	MW-20B	Total Recoverable	Water	6010C	552760
280-153860-5	MW-32B	Total Recoverable	Water	6010C	552760
280-153860-6	MW-36B	Total Recoverable	Water	6010C	552760
280-153860-7	MW-37B	Total Recoverable	Water	6010C	552760
280-153860-8	MW-38B	Total Recoverable	Water	6010C	552760
280-153860-9	MW-38C	Total Recoverable	Water	6010C	552760
280-153860-10	MW-39B	Total Recoverable	Water	6010C	552760
280-153860-11	MW-40B	Total Recoverable	Water	6010C	552760
280-153860-12	MW-41B	Total Recoverable	Water	6010C	552760
280-153860-13	MW-42B	Total Recoverable	Water	6010C	552760
280-153860-14	MW-43B	Total Recoverable	Water	6010C	552760
280-153860-15	MW-44B	Total Recoverable	Water	6010C	552760
280-153860-16	MW-45B	Total Recoverable	Water	6010C	552760
280-153860-17	MW-46B	Total Recoverable	Water	6010C	552760
280-153860-18	MW-47B	Total Recoverable	Water	6010C	552760
280-153860-19	MW-52B	Total Recoverable	Water	6010C	552760
280-153860-20	MW-53B	Total Recoverable	Water	6010C	552760
MB 280-552760/1-A	Method Blank	Total Recoverable	Water	6010C	552760
LCS 280-552760/2-A	Lab Control Sample	Total Recoverable	Water	6010C	552760
280-153860-7 MS	MW-37B	Total Recoverable	Water	6010C	552760
280-153860-7 MSD	MW-37B	Total Recoverable	Water	6010C	552760

Analysis Batch: 553071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-21	Field Blank	Total Recoverable	Water	6010C	552761
MB 280-552761/1-A	Method Blank	Total Recoverable	Water	6010C	552761
LCS 280-552761/2-A	Lab Control Sample	Total Recoverable	Water	6010C	552761
280-153860-21 MS	Field Blank	Total Recoverable	Water	6010C	552761
280-153860-21 MSD	Field Blank	Total Recoverable	Water	6010C	552761

Prep Batch: 554011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-21	Field Blank	Total Recoverable	Water	3005A	
MB 280-554011/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 280-554011/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 280-554011/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 554198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-21	Field Blank	Total Recoverable	Water	6010C	554011
MB 280-554011/1-A	Method Blank	Total Recoverable	Water	6010C	554011
LCS 280-554011/2-A	Lab Control Sample	Total Recoverable	Water	6010C	554011
LCSD 280-554011/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	554011

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QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Analysis Batch: 553028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	SM 2540C	
280-153860-2	MW-21B	Total/NA	Water	SM 2540C	
280-153860-3	DUP-01	Total/NA	Water	SM 2540C	
280-153860-4	MW-20B	Total/NA	Water	SM 2540C	
280-153860-12	MW-41B	Total/NA	Water	SM 2540C	
280-153860-13	MW-42B	Total/NA	Water	SM 2540C	
280-153860-14	MW-43B	Total/NA	Water	SM 2540C	
280-153860-15	MW-44B	Total/NA	Water	SM 2540C	
280-153860-16	MW-45B	Total/NA	Water	SM 2540C	
MB 280-553028/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-553028/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-153860-16 DU	MW-45B	Total/NA	Water	SM 2540C	

Analysis Batch: 553032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-17	MW-46B	Total/NA	Water	SM 2540C	
280-153860-18	MW-47B	Total/NA	Water	SM 2540C	
280-153860-21	Field Blank	Total/NA	Water	SM 2540C	
MB 280-553032/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-553032/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-153860-18 DU	MW-47B	Total/NA	Water	SM 2540C	

Analysis Batch: 553149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-5	MW-32B	Total/NA	Water	SM 2540C	
280-153860-6	MW-36B	Total/NA	Water	SM 2540C	
280-153860-7	MW-37B	Total/NA	Water	SM 2540C	
280-153860-8	MW-38B	Total/NA	Water	SM 2540C	
280-153860-9	MW-38C	Total/NA	Water	SM 2540C	
280-153860-10	MW-39B	Total/NA	Water	SM 2540C	
280-153860-11	MW-40B	Total/NA	Water	SM 2540C	
280-153860-20	MW-53B	Total/NA	Water	SM 2540C	
MB 280-553149/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-553149/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 553335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-19	MW-52B	Total/NA	Water	SM 2540C	
MB 280-553335/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-553335/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 553424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	9056A	
280-153860-1	MW-14BR	Total/NA	Water	9056A	
280-153860-2	MW-21B	Total/NA	Water	9056A	
280-153860-2	MW-21B	Total/NA	Water	9056A	
280-153860-3	DUP-01	Total/NA	Water	9056A	
280-153860-3	DUP-01	Total/NA	Water	9056A	
280-153860-4	MW-20B	Total/NA	Water	9056A	
280-153860-4	MW-20B	Total/NA	Water	9056A	

Eurofins TestAmerica, Denver

QC Association Summary

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry (Continued)

Analysis Batch: 553424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-5	MW-32B	Total/NA	Water	9056A	
280-153860-5	MW-32B	Total/NA	Water	9056A	
280-153860-6	MW-36B	Total/NA	Water	9056A	
280-153860-6	MW-36B	Total/NA	Water	9056A	
280-153860-7	MW-37B	Total/NA	Water	9056A	
280-153860-7	MW-37B	Total/NA	Water	9056A	
280-153860-8	MW-38B	Total/NA	Water	9056A	
280-153860-8	MW-38B	Total/NA	Water	9056A	
280-153860-9	MW-38C	Total/NA	Water	9056A	
280-153860-9	MW-38C	Total/NA	Water	9056A	
280-153860-10	MW-39B	Total/NA	Water	9056A	
280-153860-10	MW-39B	Total/NA	Water	9056A	
280-153860-11	MW-40B	Total/NA	Water	9056A	
280-153860-11	MW-40B	Total/NA	Water	9056A	
280-153860-12	MW-41B	Total/NA	Water	9056A	
280-153860-12	MW-41B	Total/NA	Water	9056A	
280-153860-13	MW-42B	Total/NA	Water	9056A	
280-153860-14	MW-43B	Total/NA	Water	9056A	
280-153860-14	MW-43B	Total/NA	Water	9056A	
280-153860-15	MW-44B	Total/NA	Water	9056A	
280-153860-15	MW-44B	Total/NA	Water	9056A	
280-153860-16	MW-45B	Total/NA	Water	9056A	
280-153860-16	MW-45B	Total/NA	Water	9056A	
280-153860-17	MW-46B	Total/NA	Water	9056A	
280-153860-17	MW-46B	Total/NA	Water	9056A	
280-153860-18	MW-47B	Total/NA	Water	9056A	
280-153860-18	MW-47B	Total/NA	Water	9056A	
280-153860-19	MW-52B	Total/NA	Water	9056A	
280-153860-19	MW-52B	Total/NA	Water	9056A	
280-153860-20	MW-53B	Total/NA	Water	9056A	
280-153860-21	Field Blank	Total/NA	Water	9056A	
MB 280-553424/13	Method Blank	Total/NA	Water	9056A	
MB 280-553424/77	Method Blank	Total/NA	Water	9056A	
LCS 280-553424/11	Lab Control Sample	Total/NA	Water	9056A	
LCS 280-553424/75	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-553424/12	Lab Control Sample Dup	Total/NA	Water	9056A	
LCSD 280-553424/76	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-553424/10	Lab Control Sample	Total/NA	Water	9056A	
280-153860-7 MS	MW-37B	Total/NA	Water	9056A	
280-153860-7 MS	MW-37B	Total/NA	Water	9056A	
280-153860-7 MSD	MW-37B	Total/NA	Water	9056A	
280-153860-7 MSD	MW-37B	Total/NA	Water	9056A	
280-153860-18 MS	MW-47B	Total/NA	Water	9056A	
280-153860-18 MS	MW-47B	Total/NA	Water	9056A	
280-153860-18 MSD	MW-47B	Total/NA	Water	9056A	
280-153860-18 MSD	MW-47B	Total/NA	Water	9056A	
280-153860-7 DU	MW-37B	Total/NA	Water	9056A	
280-153860-7 DU	MW-37B	Total/NA	Water	9056A	
280-153860-18 DU	MW-47B	Total/NA	Water	9056A	
280-153860-18 DU	MW-47B	Total/NA	Water	9056A	

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

General Chemistry

Analysis Batch: 553991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-1	MW-14BR	Total/NA	Water	9056A	
280-153860-2	MW-21B	Total/NA	Water	9056A	
280-153860-3	DUP-01	Total/NA	Water	9056A	
280-153860-4	MW-20B	Total/NA	Water	9056A	
280-153860-5	MW-32B	Total/NA	Water	9056A	
280-153860-6	MW-36B	Total/NA	Water	9056A	
280-153860-7	MW-37B	Total/NA	Water	9056A	
280-153860-8	MW-38B	Total/NA	Water	9056A	
280-153860-9	MW-38C	Total/NA	Water	9056A	
280-153860-10	MW-39B	Total/NA	Water	9056A	
280-153860-11	MW-40B	Total/NA	Water	9056A	
280-153860-12	MW-41B	Total/NA	Water	9056A	
280-153860-13	MW-42B	Total/NA	Water	9056A	
280-153860-14	MW-43B	Total/NA	Water	9056A	
280-153860-15	MW-44B	Total/NA	Water	9056A	
280-153860-16	MW-45B	Total/NA	Water	9056A	
280-153860-17	MW-46B	Total/NA	Water	9056A	
280-153860-18	MW-47B	Total/NA	Water	9056A	
280-153860-19	MW-52B	Total/NA	Water	9056A	
280-153860-20	MW-53B	Total/NA	Water	9056A	
280-153860-21	Field Blank	Total/NA	Water	9056A	
MB 280-553991/14	Method Blank	Total/NA	Water	9056A	
MB 280-553991/45	Method Blank	Total/NA	Water	9056A	
LCS 280-553991/12	Lab Control Sample	Total/NA	Water	9056A	
LCS 280-553991/43	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-553991/13	Lab Control Sample Dup	Total/NA	Water	9056A	
LCSD 280-553991/44	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-553991/11	Lab Control Sample	Total/NA	Water	9056A	
280-153860-7 MS	MW-37B	Total/NA	Water	9056A	
280-153860-7 MSD	MW-37B	Total/NA	Water	9056A	
280-153860-21 MS	Field Blank	Total/NA	Water	9056A	
280-153860-21 MSD	Field Blank	Total/NA	Water	9056A	
280-153860-7 DU	MW-37B	Total/NA	Water	9056A	
280-153860-21 DU	Field Blank	Total/NA	Water	9056A	

Analysis Batch: 554095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-153860-13	MW-42B	Total/NA	Water	9056A	
280-153860-20	MW-53B	Total/NA	Water	9056A	
MB 280-554095/6	Method Blank	Total/NA	Water	9056A	
LCS 280-554095/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-554095/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-554095/3	Lab Control Sample	Total/NA	Water	9056A	
280-153860-13 MS	MW-42B	Total/NA	Water	9056A	
280-153860-13 MSD	MW-42B	Total/NA	Water	9056A	
280-153860-13 DU	MW-42B	Total/NA	Water	9056A	

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-14BR

Lab Sample ID: 280-153860-1

Date Collected: 10/05/21 15:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:15	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:01	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 17:57	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 13:02	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 13:16	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 15:34	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: MW-21B

Lab Sample ID: 280-153860-2

Date Collected: 10/05/21 16:50

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:18	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:06	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:10	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 13:30	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 13:44	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 15:48	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: DUP-01

Lab Sample ID: 280-153860-3

Date Collected: 10/05/21 00:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:22	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:10	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:12	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 13:58	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 14:12	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 16:03	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-20B

Lab Sample ID: 280-153860-4

Date Collected: 10/05/21 15:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:26	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:15	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:15	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 14:26	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 14:40	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 16:18	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: MW-32B

Lab Sample ID: 280-153860-5

Date Collected: 10/06/21 15:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:29	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:19	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:17	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 15:22	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 15:36	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 16:33	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: MW-36B

Lab Sample ID: 280-153860-6

Date Collected: 10/06/21 16:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:33	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:23	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:20	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 15:50	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 16:04	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 16:48	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-37B

Lab Sample ID: 280-153860-7

Date Collected: 10/06/21 16:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 08:50	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 18:31	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:22	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 16:18	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 17:14	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 17:03	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: MW-38B

Lab Sample ID: 280-153860-8

Date Collected: 10/06/21 09:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:08	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:28	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:30	NK	TAL DEN
Total/NA	Analysis	9056A		20	10 mL	10 mL	553424	10/14/21 18:53	CJ	TAL DEN
Total/NA	Analysis	9056A		50	10 mL	10 mL	553424	10/14/21 19:07	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 18:32	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: MW-38C

Lab Sample ID: 280-153860-9

Date Collected: 10/06/21 08:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:12	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:41	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:37	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 19:21	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 19:35	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 18:47	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-39B

Lab Sample ID: 280-153860-10

Date Collected: 10/06/21 14:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:16	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:45	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:41	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 19:49	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 20:03	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 19:02	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: MW-40B

Lab Sample ID: 280-153860-11

Date Collected: 10/06/21 13:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:19	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:50	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:44	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 20:17	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 20:59	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 19:17	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: MW-41B

Lab Sample ID: 280-153860-12

Date Collected: 10/05/21 14:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:37	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:54	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:46	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 21:13	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 21:27	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 19:32	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-42B

Lab Sample ID: 280-153860-13

Date Collected: 10/05/21 13:15

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:41	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 19:58	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:49	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 21:41	CJ	TAL DEN
Total/NA	Analysis	9056A		10	5 mL	5 mL	554095	10/19/21 14:21	SPG	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 19:47	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: MW-43B

Lab Sample ID: 280-153860-14

Date Collected: 10/05/21 12:30

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:44	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:03	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:51	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 22:09	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 22:23	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 20:02	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: MW-44B

Lab Sample ID: 280-153860-15

Date Collected: 10/05/21 11:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:48	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:07	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:54	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 22:37	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 22:51	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 20:17	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-45B

Lab Sample ID: 280-153860-16

Date Collected: 10/05/21 11:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:51	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:12	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:57	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/14/21 23:05	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/14/21 23:47	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 20:32	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553028	10/11/21 11:27	LRB	TAL DEN

Client Sample ID: MW-46B

Lab Sample ID: 280-153860-17

Date Collected: 10/05/21 10:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:55	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:16	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 18:59	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/15/21 00:01	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/15/21 00:15	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 20:47	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553032	10/11/21 11:29	LRB	TAL DEN

Client Sample ID: MW-47B

Lab Sample ID: 280-153860-18

Date Collected: 10/05/21 09:20

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 09:59	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:20	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 19:02	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/15/21 00:29	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/15/21 01:25	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 21:32	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553032	10/11/21 11:29	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
 Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Client Sample ID: MW-52B

Lab Sample ID: 280-153860-19

Date Collected: 10/07/21 08:45

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 10:02	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:33	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 19:09	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/15/21 03:31	CJ	TAL DEN
Total/NA	Analysis	9056A		5	10 mL	10 mL	553424	10/15/21 03:45	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 21:46	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553335	10/13/21 09:24	LRB	TAL DEN

Client Sample ID: MW-53B

Lab Sample ID: 280-153860-20

Date Collected: 10/06/21 12:00

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	552760	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553009	10/09/21 10:06	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507654	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 20:38	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 19:12	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/15/21 03:59	CJ	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	554095	10/19/21 15:26	SPG	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/19/21 22:01	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	553149	10/12/21 09:26	LRB	TAL DEN

Client Sample ID: Field Blank

Lab Sample ID: 280-153860-21

Date Collected: 10/05/21 15:55

Matrix: Water

Date Received: 10/07/21 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	554011	10/19/21 07:45	PNS	TAL DEN
Total Recoverable	Analysis	6010C		1			554198	10/19/21 16:01	LRD	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	552761	10/08/21 14:14	CEH	TAL DEN
Total Recoverable	Analysis	6010C		1			553071	10/09/21 11:55	LMT	TAL DEN
Total Recoverable	Prep	3005A			50 mL	50 mL	507626	10/11/21 14:00	SHB	TAL CAN
Total Recoverable	Analysis	6020A		1			507999	10/12/21 18:18	AJC	TAL CAN
Total/NA	Prep	7470A			30 mL	50 mL	552855	10/09/21 14:30	NK	TAL DEN
Total/NA	Analysis	7470A		1			552943	10/09/21 19:14	NK	TAL DEN
Total/NA	Analysis	9056A		1	10 mL	10 mL	553424	10/15/21 04:13	CJ	TAL DEN
Total/NA	Analysis	9056A		1	5 mL	5 mL	553991	10/20/21 03:00	CJ	TAL DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	553032	10/11/21 11:29	LRB	TAL DEN

Eurofins TestAmerica, Denver

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

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Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: CCR - Basin Electric 2020 - LRS

Job ID: 280-153860-2

Laboratory: Eurofins TestAmerica, Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025-011	01-08-22

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

Chain of Custody Record

Client Information		Sampler: <u>Chris Mueser</u>		Lab PM: <u>McEntee, Patrick J</u>		Carrier Tracking No(s): <u>By Samples</u>		COC No: <u>280-109364-31772.1</u>	
Client Contact: <u>Ms. Katie Abbott</u>		Phone: <u>612-202-5465</u>		E-Mail: <u>Patrick.McEntee@Eurofins.com</u>		State of Origin: <u>Wyoming</u>		Page: <u>1 of 2</u>	
Company: <u>AECOM Technical Services Inc.</u>		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: <u>6200 S. Quebec Street</u>		Due Date Requested:		6010C - Total Ca, B, 7470A - Total Hg				A - HCL	
City: <u>Greenwood Village</u>		TAT Requested (days): <u>Standard</u>		956A, 28D - Chloride, Fluoride, Sulfate				M - Hexane	
State, Zip: <u>CO, 80111</u>		Compliance Project: <u>Δ Yes Δ No</u>		6020A - (MOD) 12 Total Metals				N - None	
Phone:		PO #: <u>127030</u>		9315 - Radium-226 (St Louis)				O - AsNaO2	
Email: <u>katie.abbott@aecom.com</u>		WO #: <u>AECOM Project# 60632474</u>		920 - Radium-228 (St Louis)				P - Na2O4S	
Project Name: <u>CCR - Basin Electric 2021</u>		Project #: <u>28020759</u>		Ra226, Ra228 - Combined Radium-226 and Radium-228 (St Louis)				Q - Na2SO3	
Site:		SSOW#:		Field Filtered Sample (Yes or No)				R - Na2S2O3	
				Perform MS/MSD (Yes or No)				S - H2SO4	
				Sample Date				T - TSP Dodecahydrate	
				Sample Time				U - Acetone	
				Sample Preservation Code:				V - MCAA	
				Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)				W - pH 4-5	
				Sample Type (C=Comp, G=grab)				X - EDTA	
				Sample Date				L - EDA	
				Sample Time				Z - other (specify)	
				Sample Preservation Code:				Other:	
				Sample Matrix				Total Number of Containers	
				Sample Type				Special Instructions/Note:	
				Sample Time				All samples are stored on ice	
				Sample Preservation Code				MS/MSD collected at MW-37B	
				Sample Matrix					
				Sample Type					
				Sample Time					
				Sample Preservation Code					
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				Sample Type					

93/34
 48/49

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carner Tracking No(s)	GOC No.			
Client Contact: Shipping/Receiving		Phone	McEntee, Patrick J	State of Origin: Colorado	280-588238-1			
Company: TestAmerica Laboratories, Inc.		E-Mail: Patrick.McEntee@Eurofinset.com		Page Page 1 of 3				
Address: 4101 Shuffel Street NW, City North Canton State, Zip OH, 44720 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email		Accreditations Required (See note) NELAP - Oregon		Job # 280-153860-2				
Project Name: CCR - Basin Electric 2020 - LRS Site:		Due Date Requested: 10/20/2021 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:				
PO #		Field Filtered Sample (Yes or No)		Total Number of Containers				
WO #		Perform MS/MSD (Yes or No)		Special Instructions/Note:				
Project # 28020759		6020A/300SA (MOD) 13 Metals		S92				
SSOW#		Preservation Code:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=washoil, B= tissue, A=AA)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
MW-14BR (280-153860-1)	10/5/21	15:45 Mountain	Water	Water	X	X		Use Collision Cell
MW-21B (280-153860-2)	10/5/21	16:50 Mountain	Water	Water	X	X		Use Collision Cell
DUP-01 (280-153860-3)	10/5/21	Mountain	Water	Water	X	X		Use Collision Cell
MW-20B (280-153860-4)	10/5/21	15:00 Mountain	Water	Water	X	X		Use Collision Cell
MW-32B (280-153860-5)	10/6/21	15:15 Mountain	Water	Water	X	X		Use Collision Cell
MW-36B (280-153860-6)	10/6/21	16:00 Mountain	Water	Water	X	X		Use Collision Cell
MW-37B (280-153860-7)	10/6/21	16:45 Mountain	Water	Water	X	X		Use Collision Cell
MW-37B (280-153860-7MS)	10/6/21	16:45 Mountain	MS	Water	X	X		Use Collision Cell
MW-37B (280-153860-7MSD)	10/6/21	16:45 Mountain	MSD	Water	X	X		Use Collision Cell

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:	Date:	Method of Shipment:
Relinquished by:	10/14/21 1345	Received by: [Signature]
Relinquished by:	10/19/21 1010	Received by: [Signature]
Relinquished by:		Received by:
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:



Eurofins TestAmerica Canton Sample Receipt Form/Narrative Login # : _____

Canton Facility

Client ETA Site Name _____ Cooler unpacked by: Jrent

Cooler Received on 10/9/21 Opened on 10/9/21

FedEx: 1st Grd UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form

IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

IR GUN #IR-15 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this. 

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

1
2
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14

Do not lift using this tag.



Environment Testing
TestAmerica

ORIGIN ID: WJHA (303) 736-0100
BOTTLE PREP
EUROFINS TESTAMERICA DENVER
4955 YARROW ST

SHIP DATE: 08OCT21
ACTWGT: 9.35 LB
CAD: 290884/CAFE3507

ARVADA, CO 80002
UNITED STATES US

BILL SENDER

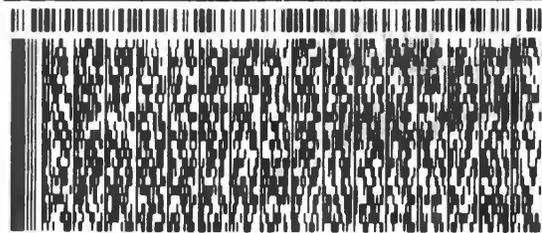
TO SHIPPING/RECEIVING
TESTAMERICA LABORATORIES, INC.
4101 SHUFFEL STREET NW

NORTH CANTON OH 44720

(330) 497-8306
PO: YES

REF: 8280-113158

DEPT: BOTTLE PREP



FedEx
Express

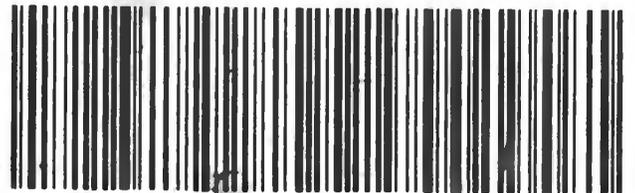


1 of 2
TRK# 5182 8142 5180
0201
MASTER

SATURDAY 12:00
PRIORITY OVERNIGHT

XO PHDA

44720
OH-US CLI



1
2
3
4
5
6
7
8
9
10
11
12
13
14

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 280-153860-2

Login Number: 153860

List Source: Eurofins TestAmerica, Denver

List Number: 1

Creator: Kirar, Dylan A

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



Attachment B

Statistical Analysis Methods, Background Upper/Lower Prediction Limits and 2021 Results

Attachment B: Input data for Calculation of Upper and Lower Predictive Limits
 CCR Monitoring Wells for Multi-units
 Laramie River Station - Wheatland, Wyoming

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-32B	12/15/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	12/15/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	12/15/2016	Molybdenum_Total	0.0064	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	12/15/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	12/15/2016	Lithium_Total	0.073	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	12/15/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	12/15/2016	Ra-226,228,tot	0.471	1	pCi/L	RA226RA228	0.444	0.444	
MW-32B	12/15/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	2/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	2/13/2017	barium_Total	0.047	1	mg/L	SW6020A	0.00029	0.001	
MW-32B	2/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	2/13/2017	Boron_Total	0.28	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	2/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	2/13/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	2/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	2/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	2/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	2/13/2017	Molybdenum_Total	0.0061	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	2/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	2/13/2017	Lithium_Total	0.075	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	2/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	9/1/2016	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	9.4	20	
MW-32B	9/1/2016	Calcium_Total	200	1	mg/L	SW6010C	0.035	1	
MW-32B	9/1/2016	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	9/1/2016	Chloride	83	1	mg/L	SW9056A	0.25	3	
MW-32B	9/1/2016	Sulfate	820	1	mg/L	SW9056A	2.3	50	
MW-32B	9/1/2016	Fluoride	0.54	1	mg/L	SW9056A	0.06	0.5	
MW-32B	9/1/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	9/1/2016	barium_Total	0.077	1	mg/L	SW6020A	0.00029	0.001	
MW-32B	9/1/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	9/1/2016	Boron_Total	0.27	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	9/1/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	9/1/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	9/1/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	9/1/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	9/1/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	9/1/2016	Molybdenum_Total	0.018	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	9/1/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	9/1/2016	Lithium_Total	0.074	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	9/1/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	9/1/2016	Ra-226,228,tot	1.2	1	pCi/L	RA226RA228	0.54	0.54	
MW-32B	9/1/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	11/11/2016	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	9.4	20	
MW-32B	11/11/2016	Calcium_Total	210	1	mg/L	SW6010C	0.035	1	
MW-32B	11/11/2016	Magnesium_Total	120	1	mg/L	SW6010C	0.011	0.2	
MW-32B	11/11/2016	Chloride	83	1	mg/L	SW9056A	0.25	3	
MW-32B	11/11/2016	Sulfate	820	1	mg/L	SW9056A	2.3	50	
MW-32B	11/11/2016	Fluoride	0.6	1	mg/L	SW9056A	0.06	0.5	
MW-32B	11/11/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	11/11/2016	barium_Total	0.057	1	mg/L	SW6020A	0.00029	0.001	^
MW-32B	11/11/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	11/11/2016	Boron_Total	0.28	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	11/11/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	11/11/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	11/11/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	11/11/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	11/11/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	11/11/2016	Molybdenum_Total	0.0076	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	11/11/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	11/11/2016	Lithium_Total	0.08	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	11/11/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	11/11/2016	Ra-226,228,tot	0.716	1	pCi/L	RA226RA228	0.464	0.464	
MW-32B	11/11/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	12/15/2016	Lab pH	7.5	1	STD	SW9040B	0.1	0.1	HF
MW-32B	12/15/2016	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	9.4	20	
MW-32B	12/15/2016	Calcium_Total	190	1	mg/L	SW6010C	0.035	1	
MW-32B	12/15/2016	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	12/15/2016	Chloride	84	1	mg/L	SW9056A	0.25	3	
MW-32B	12/15/2016	Sulfate	830	1	mg/L	SW9056A	2.3	50	
MW-32B	12/15/2016	Fluoride	0.59	1	mg/L	SW9056A	0.06	0.5	
MW-32B	12/15/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	12/15/2016	barium_Total	0.053	1	mg/L	SW6020A	0.00029	0.001	
MW-32B	12/15/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	12/15/2016	Boron_Total	0.27	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	12/15/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	12/15/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	12/15/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	2/13/2017	Lab pH	7.6	1	STD	SW9040B	0.1	0.1	HF
MW-32B	2/13/2017	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	9.4	20	
MW-32B	2/13/2017	Calcium_Total	200	1	mg/L	SW6010C	0.035	1	
MW-32B	2/13/2017	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	2/13/2017	Chloride	84	1	mg/L	SW9056A	0.25	3	
MW-32B	2/13/2017	Sulfate	830	1	mg/L	SW9056A	2.3	50	
MW-32B	2/13/2017	Fluoride	0.63	1	mg/L	SW9056A	0.06	0.5	
MW-32B	2/13/2017	Ra-226,228,tot	0.713	1	pCi/L	RA226RA228	0.422	0.422	
MW-32B	2/13/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	4/4/2017	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	9.4	20	
MW-32B	4/4/2017	Calcium_Total	190	1	mg/L	SW6010C	0.035	1	
MW-32B	4/4/2017	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	4/4/2017	Chloride	83	1	mg/L	SW9056A	0.25	3	
MW-32B	4/4/2017	Sulfate	830	1	mg/L	SW9056A	2.3	50	
MW-32B	4/4/2017	Fluoride	0.59	1	mg/L	SW9056A	0.06	0.5	
MW-32B	4/4/2017	Arsenic_Total	0.05	0	mg/L	SW6020A	0.0033	0.05	U
MW-32B	4/4/2017	barium_Total	0.038	1	mg/L	SW6020A	0.0029	0.01	
MW-32B	4/4/2017	Beryllium_Total	0.01	0	mg/L	SW6020A	0.0008	0.01	U
MW-32B	4/4/2017	Boron_Total	0.31	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	4/4/2017	Cadmium_Total	0.01	0	mg/L	SW6020A	0.0027	0.01	U
MW-32B	4/4/2017	chromium_Total	0.02	0	mg/L	SW6020A	0.005	0.02	U
MW-32B	4/4/2017	Cobalt_Total	0.01	0	mg/L	SW6020A	0.00054	0.01	U
MW-32B	5/16/2017	Lab pH	7.9	1	STD	SW9040B	0.1	0.1	HF
MW-32B	5/16/2017	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	4.7	10	
MW-32B	5/16/2017	Calcium_Total	180	1	mg/L	SW6010C	0.035	1	
MW-32B	5/16/2017	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	5/16/2017	Chloride	84	1	mg/L	SW9056A	0.25	3	
MW-32B	5/16/2017	Sulfate	830	1	mg/L	SW9056A	2.3	50	
MW-32B	5/16/2017	Fluoride	0.6	1	mg/L	SW9056A	0.06	0.5	
MW-32B	5/16/2017	Ra-226,228,tot	0.752	1	pCi/L	RA226RA228	0.3	0.3	
MW-32B	5/16/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	6/13/2017	Residue, Filterable (TDS) @180C	1800	1	mg/L	SM2540C	4.7	10	
MW-32B	6/13/2017	Calcium_Total	190	1	mg/L	SW6010C	0.035	1	
MW-32B	6/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	6/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	6/13/2017	Molybdenum_Total	0.0079	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	6/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	6/13/2017	Lithium_Total	0.081	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	6/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	6/13/2017	Ra-226,228,tot	0.793	1	pCi/L	RA226RA228	0.282	0.282	
MW-32B	6/13/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	7/26/2017	Residue, Filterable (TDS) @180C	1700	1	mg/L	SM2540C	4.7	10	
MW-32B	7/26/2017	Calcium_Total	190	1	mg/L	SW6010C	0.035	1	
MW-32B	7/26/2017	Magnesium_Total	100	1	mg/L	SW6010C	0.011	0.2	
MW-32B	7/26/2017	Chloride	86	1	mg/L	SW9056A	0.25	3	
MW-32B	7/26/2017	Sulfate	790	1	mg/L	SW9056A	2.3	50	

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-32B	7/26/2017	Fluoride	0.53	1	mg/L	SW9056A	0.06	0.5	
MW-32B	7/26/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	7/26/2017	Ra-226,228, tot	0.915	0	pCi/L	RA226RA228	0.915	0.915	
MW-32B	7/26/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	4/4/2017	Lead_Total	0.01	0	mg/L	SW6020A	0.0018	0.01	U
MW-32B	4/4/2017	Thallium_Total	0.01	0	mg/L	SW6020A	0.0005	0.01	U
MW-32B	4/4/2017	Molybdenum_Total	0.02	0	mg/L	SW6020A	0.0014	0.02	U
MW-32B	4/4/2017	Antimony_Total	0.02	0	mg/L	SW6020A	0.004	0.02	U
MW-32B	4/4/2017	Lithium_Total	0.081	1	mg/L	SW6010C	0.0091	0.02	U
MW-32B	4/4/2017	Selenium_Total	0.05	0	mg/L	SW6020A	0.007	0.05	U
MW-32B	4/4/2017	Ra-226,228, tot	0.375	1	pCi/L	RA226RA228	0.336	0.336	
MW-32B	4/4/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	5/16/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	5/16/2017	barium_Total	0.04	1	mg/L	SW6020A	0.00029	0.001	
MW-32B	5/16/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	5/16/2017	Boron_Total	0.29	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	5/16/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	5/16/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	5/16/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	5/16/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	5/16/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	5/16/2017	Molybdenum_Total	0.0085	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	5/16/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	5/16/2017	Lithium_Total	0.069	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	5/16/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	6/13/2017	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-32B	6/13/2017	Chloride	84	1	mg/L	SW9056A	0.25	3	
MW-32B	6/13/2017	Sulfate	840	1	mg/L	SW9056A	1.2	25	
MW-32B	6/13/2017	Fluoride	0.64	1	mg/L	SW9056A	0.06	0.5	
MW-32B	6/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	6/13/2017	barium_Total	0.041	1	mg/L	SW6020A	0.00029	0.001	B
MW-32B	6/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	6/13/2017	Boron_Total	0.28	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	6/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	6/13/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	6/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	7/26/2017	barium_Total	0.044	1	mg/L	SW6020A	0.00029	0.001	
MW-32B	7/26/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	7/26/2017	Boron_Total	0.26	1	mg/L	SW6010C	0.0044	0.1	
MW-32B	7/26/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	7/26/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	7/26/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	7/26/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	7/26/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	7/26/2017	Molybdenum_Total	0.0095	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	7/26/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	7/26/2017	Lithium_Total	0.072	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	7/26/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	9/2/2016	Residue, Filterable (TDS) @180C	400	1	mg/L	SM2540C	4.7	10	
MW-39B	9/2/2016	Calcium_Total	170	1	mg/L	SW6010C	0.035	1	
MW-39B	9/2/2016	Magnesium_Total	81	1	mg/L	SW6010C	0.011	0.2	
MW-39B	9/2/2016	Chloride	43	1	mg/L	SW9056A	0.25	3	
MW-39B	9/2/2016	Sulfate	450	1	mg/L	SW9056A	1.2	25	
MW-39B	9/2/2016	Fluoride	0.79	1	mg/L	SW9056A	0.06	0.5	
MW-39B	9/2/2016	Arsenic_Total	0.0057	1	mg/L	SW6020A	0.00033	0.005	
MW-39B	9/2/2016	barium_Total	0.11	1	mg/L	SW6020A	0.00029	0.001	
MW-39B	9/2/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	9/2/2016	Boron_Total	0.17	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	9/2/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	9/2/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	9/2/2016	Cobalt_Total	0.0028	1	mg/L	SW6020A	0.000054	0.001	
MW-39B	9/2/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	9/2/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	9/2/2016	Molybdenum_Total	0.069	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	9/2/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	9/2/2016	Lithium_Total	0.073	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	9/2/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	9/2/2016	Ra-226,228, tot	0.823	1	pCi/L	RA226RA228	0.434	0.434	
MW-39B	9/2/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	11/10/2016	Residue, Filterable (TDS) @180C	970	1	mg/L	SM2540C	4.7	10	
MW-39B	11/10/2016	Calcium_Total	190	1	mg/L	SW6010C	0.035	1	
MW-39B	11/10/2016	Magnesium_Total	94	1	mg/L	SW6010C	0.011	0.2	
MW-39B	11/10/2016	Chloride	45	1	mg/L	SW9056A	0.25	3	
MW-39B	11/10/2016	Lithium_Total	0.069	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	11/10/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	11/10/2016	Ra-226,228, tot	0.926	1	pCi/L	RA226RA228	0.462	0.462	
MW-39B	11/10/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	12/14/2016	Lab pH	7.5	1	STD	SW9040B	0.1	0.1	HF
MW-39B	11/10/2016	Sulfate	530	1	mg/L	SW9056A	1.2	25	
MW-39B	11/10/2016	Fluoride	0.65	1	mg/L	SW9056A	0.06	0.5	
MW-39B	11/10/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	11/10/2016	barium_Total	0.073	1	mg/L	SW6020A	0.00029	0.001	^
MW-39B	11/10/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	11/10/2016	Boron_Total	0.19	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	11/10/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	11/10/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	11/10/2016	Cobalt_Total	0.0015	1	mg/L	SW6020A	0.000054	0.001	
MW-39B	11/10/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	11/10/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	11/10/2016	Molybdenum_Total	0.039	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	11/10/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	12/14/2016	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-39B	12/14/2016	Calcium_Total	180	1	mg/L	SW6010C	0.035	1	
MW-39B	12/14/2016	Magnesium_Total	85	1	mg/L	SW6010C	0.011	0.2	
MW-39B	12/14/2016	Chloride	46	1	mg/L	SW9056A	0.25	3	
MW-39B	12/14/2016	Sulfate	540	1	mg/L	SW9056A	1.2	25	
MW-39B	12/14/2016	Fluoride	0.63	1	mg/L	SW9056A	0.06	0.5	
MW-39B	12/14/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	12/14/2016	barium_Total	0.064	1	mg/L	SW6020A	0.00029	0.001	
MW-39B	12/14/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	12/14/2016	Boron_Total	0.18	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	2/13/2017	Lab pH	7.7	1	STD	SW9040B	0.1	0.1	HF
MW-39B	2/13/2017	Residue, Filterable (TDS) @180C	1200	1	mg/L	SM2540C	4.7	10	
MW-39B	2/13/2017	Calcium_Total	200	1	mg/L	SW6010C	0.035	1	
MW-39B	2/13/2017	Magnesium_Total	94	1	mg/L	SW6010C	0.011	0.2	
MW-39B	2/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	2/13/2017	Lithium_Total	0.068	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	2/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	2/13/2017	Ra-226,228, tot	0.609	1	pCi/L	RA226RA228	0.433	0.433	
MW-39B	2/13/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	4/4/2017	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-39B	4/4/2017	Calcium_Total	180	1	mg/L	SW6010C	0.035	1	
MW-39B	4/4/2017	Magnesium_Total	86	1	mg/L	SW6010C	0.011	0.2	
MW-39B	4/4/2017	Chloride	46	1	mg/L	SW9056A	0.25	3	
MW-39B	4/4/2017	Sulfate	550	1	mg/L	SW9056A	2.3	50	
MW-39B	4/4/2017	Fluoride	0.61	1	mg/L	SW9056A	0.06	0.5	
MW-39B	4/4/2017	Arsenic_Total	0.05	0	mg/L	SW6020A	0.0033	0.05	U
MW-39B	4/4/2017	barium_Total	0.048	1	mg/L	SW6020A	0.0029	0.01	
MW-39B	4/4/2017	Beryllium_Total	0.01	0	mg/L	SW6020A	0.0008	0.01	U
MW-39B	4/4/2017	Boron_Total	0.2	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	5/16/2017	Lab pH	7.9	1	STD	SW9040B	0.1	0.1	HF
MW-39B	5/16/2017	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-39B	5/16/2017	Calcium_Total	170	1	mg/L	SW6010C	0.035	1	
MW-39B	5/16/2017	Magnesium_Total	83	1	mg/L	SW6010C	0.011	0.2	
MW-39B	5/16/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	5/16/2017	Lithium_Total	0.062	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	5/16/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	5/16/2017	Ra-226,228, tot	0.373	0	pCi/L	RA226RA228</			

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-39B	5/16/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	6/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	6/13/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	6/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-39B	6/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	6/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	6/13/2017	Molybdenum_Total	0.016	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	6/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	6/13/2017	Lithium_Total	0.064	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	6/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	6/13/2017	Ra-226,228, tot	0.671	1	pCi/L	RA226RA228	0.341	0.341	
MW-39B	6/13/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	12/14/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	12/14/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	12/14/2016	Cobalt_Total	0.0012	1	mg/L	SW6020A	0.000054	0.001	
MW-39B	12/14/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	12/14/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	12/14/2016	Molybdenum_Total	0.028	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	12/14/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	12/14/2016	Lithium_Total	0.066	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	12/14/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	12/14/2016	Ra-226,228, tot	0.797	1	pCi/L	RA226RA228	0.406	0.406	
MW-39B	12/14/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	2/13/2017	Chloride	46	1	mg/L	SW9056A	0.25	3	
MW-39B	2/13/2017	Sulfate	540	1	mg/L	SW9056A	1.2	25	
MW-39B	2/13/2017	Fluoride	0.66	1	mg/L	SW9056A	0.06	0.5	
MW-39B	2/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	2/13/2017	barium_Total	0.069	1	mg/L	SW6020A	0.00029	0.001	
MW-39B	2/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	2/13/2017	Boron_Total	0.19	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	2/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	2/13/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	2/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-39B	2/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	2/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	2/13/2017	Molybdenum_Total	0.02	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	4/4/2017	Cadmium_Total	0.01	0	mg/L	SW6020A	0.0027	0.01	U
MW-39B	4/4/2017	chromium_Total	0.02	0	mg/L	SW6020A	0.005	0.02	U
MW-39B	4/4/2017	Cobalt_Total	0.01	0	mg/L	SW6020A	0.00054	0.01	U
MW-39B	4/4/2017	Lead_Total	0.01	0	mg/L	SW6020A	0.0018	0.01	U
MW-39B	4/4/2017	Thallium_Total	0.01	0	mg/L	SW6020A	0.0005	0.01	U
MW-39B	4/4/2017	Molybdenum_Total	0.02	0	mg/L	SW6020A	0.0014	0.02	U
MW-39B	4/4/2017	Antimony_Total	0.02	0	mg/L	SW6020A	0.004	0.02	U
MW-39B	4/4/2017	Lithium_Total	0.069	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	4/4/2017	Selenium_Total	0.05	0	mg/L	SW6020A	0.007	0.05	U
MW-39B	4/4/2017	Ra-226,228, tot	0.556	1	pCi/L	RA226RA228	0.365	0.365	
MW-39B	4/4/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	5/16/2017	Chloride	46	1	mg/L	SW9056A	0.25	3	
MW-39B	5/16/2017	Sulfate	540	1	mg/L	SW9056A	1.2	25	
MW-39B	5/16/2017	Fluoride	0.66	1	mg/L	SW9056A	0.06	0.5	
MW-39B	5/16/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	5/16/2017	barium_Total	0.051	1	mg/L	SW6020A	0.00029	0.001	
MW-39B	5/16/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	5/16/2017	Boron_Total	0.21	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	5/16/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	5/16/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	5/16/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-39B	5/16/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	5/16/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	5/16/2017	Molybdenum_Total	0.017	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	6/13/2017	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-39B	6/13/2017	Calcium_Total	170	1	mg/L	SW6010C	0.035	1	
MW-39B	6/13/2017	Magnesium_Total	81	1	mg/L	SW6010C	0.011	0.2	
MW-39B	6/13/2017	Chloride	46	1	mg/L	SW9056A	0.25	3	
MW-39B	6/13/2017	Sulfate	550	1	mg/L	SW9056A	1.2	25	
MW-39B	6/13/2017	Fluoride	0.66	1	mg/L	SW9056A	0.06	0.5	
MW-39B	6/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	6/13/2017	barium_Total	0.046	1	mg/L	SW6020A	0.00029	0.001	B
MW-39B	6/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	6/13/2017	Boron_Total	0.18	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	7/26/2017	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-39B	7/26/2017	Calcium_Total	180	1	mg/L	SW6010C	0.035	1	
MW-39B	7/26/2017	Magnesium_Total	82	1	mg/L	SW6010C	0.011	0.2	
MW-39B	7/26/2017	Chloride	47	1	mg/L	SW9056A	0.25	3	
MW-39B	7/26/2017	Sulfate	540	1	mg/L	SW9056A	1.2	25	
MW-39B	7/26/2017	Fluoride	0.64	1	mg/L	SW9056A	0.06	0.5	
MW-39B	7/26/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	7/26/2017	barium_Total	0.05	1	mg/L	SW6020A	0.00029	0.001	
MW-39B	7/26/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	7/26/2017	Boron_Total	0.18	1	mg/L	SW6010C	0.0044	0.1	
MW-39B	7/26/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	7/26/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	7/26/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-39B	7/26/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	7/26/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	7/26/2017	Molybdenum_Total	0.017	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	7/26/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	7/26/2017	Lithium_Total	0.063	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	7/26/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	7/26/2017	Ra-226,228, tot	0.426	0	pCi/L	RA226RA228	0.426	0.426	U
MW-39B	7/26/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	8/31/2016	Calcium_Total	240	1	mg/L	SW6010C	0.035	1	
MW-41B	8/31/2016	Magnesium_Total	68	1	mg/L	SW6010C	0.011	0.2	
MW-41B	8/31/2016	Chloride	160	1	mg/L	SW9056A	0.25	3	
MW-41B	8/31/2016	Sulfate	1300	1	mg/L	SW9056A	2.3	50	
MW-41B	8/31/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	8/31/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	8/31/2016	barium_Total	0.069	1	mg/L	SW6020A	0.00029	0.001	
MW-41B	8/31/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	8/31/2016	Boron_Total	0.61	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	8/31/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	8/31/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-41B	11/11/2016	Residue, Filterable (TDS) @180C	2400	1	mg/L	SM2540C	9.4	20	
MW-41B	11/11/2016	Calcium_Total	270	1	mg/L	SW6010C	0.035	1	
MW-41B	11/11/2016	Magnesium_Total	81	1	mg/L	SW6010C	0.011	0.2	
MW-41B	11/11/2016	Chloride	170	1	mg/L	SW9056A	0.25	3	
MW-41B	11/11/2016	Sulfate	1800	1	mg/L	SW9056A	2.3	50	
MW-41B	11/11/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	11/11/2016	Ra-226,228, tot	0.807	1	pCi/L	RA226RA228	0.459	0.459	
MW-41B	11/11/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	12/15/2016	Lab pH	7.6	1	STD	SW9040B	0.1	0.1	HF
MW-41B	12/15/2016	Residue, Filterable (TDS) @180C	2500	1	mg/L	SM2540C	9.4	20	
MW-41B	12/15/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	12/15/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	12/15/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	12/15/2016	Molybdenum_Total	0.045	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	12/15/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	12/15/2016	Lithium_Total	0.053	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	12/15/2016	Selenium_Total	0.011	1	mg/L	SW6020A	0.0007	0.005	U
MW-41B	12/15/2016	Ra-226,228, tot	0.938	1	pCi/L	RA226RA228	0.425	0.425	
MW-41B	12/15/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	2/14/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	2/14/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	2/14/2017	barium_Total	0.046	1	mg/L	SW6020A	0.00029	0.001	
MW-41B	2/14/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	2/14/2017	Boron_Total	0.64	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	2/14/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.0		

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-41B	2/14/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	2/14/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	2/14/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	2/14/2017	Molybdenum_Total	0.055	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	2/14/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	2/14/2017	Lithium_Total	0.055	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	8/31/2016	Residue, Filterable (TDS) @180C	2300	1	mg/L	SM2540C	9.4	20	
MW-41B	8/31/2016	Cobalt_Total	0.0016	1	mg/L	SW6020A	0.000054	0.001	
MW-41B	8/31/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	8/31/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	8/31/2016	Molybdenum_Total	0.037	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	8/31/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	8/31/2016	Lithium_Total	0.05	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	8/31/2016	Selenium_Total	0.0097	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	8/31/2016	Ra-226,228, tot	1.02	1	pCi/L	RA226RA228	0.498	0.498	
MW-41B	8/31/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	11/11/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	11/11/2016	barium_Total	0.05	1	mg/L	SW6020A	0.00029	0.001	^
MW-41B	11/11/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	11/11/2016	Boron_Total	0.68	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	11/11/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	11/11/2016	chromium_Total	0.0039	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	11/11/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	11/11/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	11/11/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	11/11/2016	Molybdenum_Total	0.048	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	11/11/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	11/11/2016	Lithium_Total	0.057	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	11/11/2016	Selenium_Total	0.01	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	12/15/2016	Calcium_Total	260	1	mg/L	SW6010C	0.035	1	
MW-41B	12/15/2016	Magnesium_Total	74	1	mg/L	SW6010C	0.011	0.2	
MW-41B	12/15/2016	Chloride	180	1	mg/L	SW9056A	0.25	3	
MW-41B	12/15/2016	Sulfate	1500	1	mg/L	SW9056A	4.6	100	
MW-41B	12/15/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	12/15/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	12/15/2016	barium_Total	0.045	1	mg/L	SW6020A	0.00029	0.001	
MW-41B	12/15/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	12/15/2016	Boron_Total	0.66	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	12/15/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	12/15/2016	chromium_Total	0.0042	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	2/14/2017	Lab pH	7.8	1	STD	SW9040B	0.1	0.1	HF
MW-41B	2/14/2017	Residue, Filterable (TDS) @180C	2600	1	mg/L	SM2540C	9.4	20	
MW-41B	2/14/2017	Calcium_Total	280	1	mg/L	SW6010C	0.035	1	
MW-41B	2/14/2017	Magnesium_Total	79	1	mg/L	SW6010C	0.011	0.2	
MW-41B	2/14/2017	Chloride	180	1	mg/L	SW9056A	0.25	3	
MW-41B	2/14/2017	Sulfate	1500	1	mg/L	SW9056A	2.3	50	
MW-41B	2/14/2017	Selenium_Total	0.011	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	2/14/2017	Ra-226,228, tot	0.358	0	pCi/L	RA226RA228	0.358	0.358	U
MW-41B	2/14/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	4/3/2017	Residue, Filterable (TDS) @180C	2700	1	mg/L	SM2540C	9.4	20	
MW-41B	4/3/2017	Cobalt_Total	0.01	0	mg/L	SW6020A	0.00054	0.01	U
MW-41B	4/3/2017	Lead_Total	0.01	0	mg/L	SW6020A	0.0018	0.01	U
MW-41B	4/3/2017	Thallium_Total	0.01	0	mg/L	SW6020A	0.0005	0.01	U
MW-41B	4/3/2017	Molybdenum_Total	0.053	1	mg/L	SW6020A	0.0014	0.02	
MW-41B	4/3/2017	Antimony_Total	0.02	0	mg/L	SW6020A	0.004	0.02	U
MW-41B	4/3/2017	Lithium_Total	0.062	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	4/3/2017	Selenium_Total	0.05	0	mg/L	SW6020A	0.007	0.05	U
MW-41B	4/3/2017	Ra-226,228, tot	0.408	1	pCi/L	RA226RA228	0.324	0.324	
MW-41B	4/3/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	5/16/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	5/16/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	5/16/2017	barium_Total	0.037	1	mg/L	SW6020A	0.00029	0.001	
MW-41B	5/16/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	5/16/2017	Boron_Total	0.66	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	5/16/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	5/16/2017	chromium_Total	0.0048	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	5/16/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	5/16/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	5/16/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	5/16/2017	Molybdenum_Total	0.06	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	5/16/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	5/16/2017	Lithium_Total	0.054	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	6/13/2017	Calcium_Total	270	1	mg/L	SW6010C	0.035	1	
MW-41B	6/13/2017	Magnesium_Total	76	1	mg/L	SW6010C	0.011	0.2	
MW-41B	6/13/2017	Chloride	190	1	mg/L	SW9056A	0.25	3	
MW-41B	6/13/2017	Sulfate	1600	1	mg/L	SW9056A	2.3	50	
MW-41B	6/13/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	6/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	6/13/2017	barium_Total	0.032	1	mg/L	SW6020A	0.00029	0.001	B
MW-41B	6/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	6/13/2017	Boron_Total	0.6	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	6/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	6/13/2017	chromium_Total	0.0042	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	6/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	6/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	6/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	6/13/2017	Molybdenum_Total	0.056	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	6/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	6/13/2017	Lithium_Total	0.058	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	6/13/2017	Selenium_Total	0.011	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	6/13/2017	Ra-226,228, tot	0.538	1	pCi/L	RA226RA228	0.308	0.308	
MW-41B	6/13/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	7/26/2017	Residue, Filterable (TDS) @180C	2700	1	mg/L	SM2540C	9.4	20	
MW-41B	7/26/2017	Calcium_Total	280	1	mg/L	SW6010C	0.035	1	
MW-41B	7/26/2017	Magnesium_Total	78	1	mg/L	SW6010C	0.011	0.2	
MW-41B	7/26/2017	Chloride	200	1	mg/L	SW9056A	1.3	15	
MW-41B	7/26/2017	Sulfate	1500	1	mg/L	SW9056A	2.3	50	
MW-41B	7/26/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	7/26/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	7/26/2017	barium_Total	0.034	1	mg/L	SW6020A	0.00029	0.001	
MW-41B	7/26/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	7/26/2017	Boron_Total	0.64	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	7/26/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	7/26/2017	chromium_Total	0.004	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	7/26/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	7/26/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	7/26/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	7/26/2017	Molybdenum_Total	0.054	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	7/26/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	7/26/2017	Lithium_Total	0.054	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	7/26/2017	Selenium_Total	0.011	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	7/26/2017	Ra-226,228, tot	0.609	0	pCi/L	RA226RA228	0.609	0.609	
MW-41B	7/26/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	8/31/2016	Residue, Filterable (TDS) @180C	3800	1	mg/L	SM2540C	9.4	20	
MW-42B	8/31/2016	Calcium_Total	530	1	mg/L	SW6010C	0.035	1	
MW-42B	8/31/2016	Magnesium_Total	110	1	mg/L	SW6010C	0.011	0.2	
MW-42B	8/31/2016	Chloride	320	1	mg/L	SW9056A	5.1	60	
MW-42B	8/31/2016	Sulfate	2200	1	mg/L	SW9056A	4.6	100	
MW-42B	8/31/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-42B	8/31/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	8/31/2016	barium_Total	0.061	1	mg/L	SW6020A	0.00029	0.001	
MW-42B	8/31/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	8/31/2016	Boron_Total	0.94	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	8/31/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	8/31/2016	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-42B	8/31/2016	Cobalt_Total	0.0012	1	mg/L	SW6020A	0.000054	0.001	
MW-42B	8/31/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.0	

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-42B	8/31/2016	Molybdenum_Total	0.18	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	8/31/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	8/31/2016	Lithium_Total	0.085	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	8/31/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-42B	8/31/2016	Ra-226,228, tot	0.535	1	pCi/L	RA226RA228	0.504	0.504	
MW-42B	8/31/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	11/11/2016	Residue, Filterable (TDS) @180C	2800	1	mg/L	SM2540C	9.4	20	
MW-42B	11/11/2016	Calcium_Total	330	1	mg/L	SW6010C	0.035	1	
MW-42B	11/11/2016	Magnesium_Total	73	1	mg/L	SW6010C	0.011	0.2	
MW-42B	11/11/2016	Chloride	230	1	mg/L	SW9056A	2.5	30	
MW-42B	11/11/2016	Sulfate	1700	1	mg/L	SW9056A	2.3	50	
MW-42B	11/11/2016	Fluoride	0.68	1	mg/L	SW9056A	0.06	0.5	
MW-42B	11/11/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	4/3/2017	Calcium_Total	270	1	mg/L	SW6010C	0.035	1	
MW-41B	4/3/2017	Magnesium_Total	77	1	mg/L	SW6010C	0.011	0.2	
MW-41B	4/3/2017	Chloride	180	1	mg/L	SW9056A	0.25	3	
MW-41B	4/3/2017	Sulfate	5	0	mg/L	SW9056A	0.23	5	U
MW-41B	4/3/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	4/3/2017	Arsenic_Total	0.05	0	mg/L	SW6020A	0.0033	0.05	U
MW-41B	4/3/2017	barium_Total	0.036	1	mg/L	SW6020A	0.0029	0.01	
MW-41B	4/3/2017	Beryllium_Total	0.01	0	mg/L	SW6020A	0.0008	0.01	U
MW-41B	4/3/2017	Boron_Total	0.7	1	mg/L	SW6010C	0.0044	0.1	
MW-41B	4/3/2017	Cadmium_Total	0.01	0	mg/L	SW6020A	0.0027	0.01	U
MW-41B	4/3/2017	chromium_Total	0.02	0	mg/L	SW6020A	0.005	0.02	U
MW-41B	5/16/2017	Lab pH	7.9	1	STD	SW9040B	0.1	0.1	HF
MW-41B	5/16/2017	Residue, Filterable (TDS) @180C	2800	1	mg/L	SM2540C	9.4	20	
MW-41B	5/16/2017	Calcium_Total	270	1	mg/L	SW6010C	0.035	1	
MW-41B	5/16/2017	Magnesium_Total	76	1	mg/L	SW6010C	0.011	0.2	
MW-41B	5/16/2017	Chloride	190	1	mg/L	SW9056A	0.25	3	
MW-41B	5/16/2017	Sulfate	1600	1	mg/L	SW9056A	4.6	100	
MW-41B	5/16/2017	Selenium_Total	0.012	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	5/16/2017	Ra-226,228, tot	0.373	1	pCi/L	RA226RA228	0.311	0.311	
MW-41B	5/16/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	6/13/2017	Residue, Filterable (TDS) @180C	2800	1	mg/L	SM2540C	9.4	20	
MW-42B	2/15/2017	Ra-226,228, tot	0.509	0	pCi/L	RA226RA228	0.509	0.509	U
MW-42B	2/15/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	4/3/2017	Residue, Filterable (TDS) @180C	3900	1	mg/L	SM2540C	9.4	20	
MW-42B	4/3/2017	Calcium_Total	450	1	mg/L	SW6010C	0.035	1	
MW-42B	4/3/2017	Magnesium_Total	92	1	mg/L	SW6010C	0.011	0.2	
MW-42B	4/3/2017	Chloride	320	1	mg/L	SW9056A	5.1	60	
MW-42B	4/3/2017	Sulfate	5	0	mg/L	SW9056A	0.23	5	U
MW-42B	4/3/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-42B	4/3/2017	Arsenic_Total	0.05	0	mg/L	SW6020A	0.0033	0.05	U
MW-42B	4/3/2017	barium_Total	0.03	1	mg/L	SW6020A	0.0029	0.01	
MW-42B	4/3/2017	Beryllium_Total	0.01	0	mg/L	SW6020A	0.0008	0.01	U
MW-42B	4/3/2017	Boron_Total	0.94	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	4/3/2017	Cadmium_Total	0.01	0	mg/L	SW6020A	0.0027	0.01	U
MW-42B	4/3/2017	chromium_Total	0.02	0	mg/L	SW6020A	0.005	0.02	U
MW-42B	4/3/2017	Cobalt_Total	0.01	0	mg/L	SW6020A	0.00054	0.01	U
MW-42B	5/17/2017	Lab pH	7.9	1	STD	SW9040B	0.1	0.1	HF
MW-42B	5/17/2017	Residue, Filterable (TDS) @180C	3900	1	mg/L	SM2540C	9.4	20	
MW-42B	5/17/2017	Calcium_Total	430	1	mg/L	SW6010C	0.035	1	
MW-42B	5/17/2017	Magnesium_Total	92	1	mg/L	SW6010C	0.011	0.2	
MW-42B	5/17/2017	Chloride	320	1	mg/L	SW9056A	5.1	60	
MW-42B	5/17/2017	Sulfate	2200	1	mg/L	SW9056A	4.6	100	
MW-42B	5/17/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-42B	5/17/2017	Ra-226,228, tot	0.397	1	pCi/L	RA226RA228	0.313	0.313	
MW-42B	5/17/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	6/13/2017	Residue, Filterable (TDS) @180C	4000	1	mg/L	SM2540C	9.4	20	
MW-42B	6/13/2017	Calcium_Total	450	1	mg/L	SW6010C	0.035	1	
MW-42B	6/13/2017	Magnesium_Total	87	1	mg/L	SW6010C	0.011	0.2	
MW-42B	6/13/2017	Chloride	310	1	mg/L	SW9056A	5.1	60	
MW-42B	6/13/2017	Sulfate	2200	1	mg/L	SW9056A	4.6	100	
MW-42B	6/13/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-42B	6/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	6/13/2017	barium_Total	0.03	1	mg/L	SW6020A	0.0029	0.001	B
MW-42B	6/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	6/13/2017	Boron_Total	0.82	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	6/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	6/13/2017	chromium_Total	0.0024	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	6/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	11/11/2016	barium_Total	0.047	1	mg/L	SW6020A	0.00029	0.001	^
MW-42B	11/11/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	11/11/2016	Boron_Total	0.92	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	11/11/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	11/11/2016	chromium_Total	0.0024	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	11/11/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	11/11/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	11/11/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	11/11/2016	Molybdenum_Total	0.15	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	11/11/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	11/11/2016	Lithium_Total	0.066	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	11/11/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-42B	11/11/2016	Ra-226,228, tot	0.488	0	pCi/L	RA226RA228	0.488	0.488	U
MW-42B	11/11/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	12/14/2016	Lab pH	7.6	1	STD	SW9040B	0.1	0.1	HF
MW-42B	12/14/2016	Residue, Filterable (TDS) @180C	2700	1	mg/L	SM2540C	9.4	20	
MW-42B	12/14/2016	Calcium_Total	320	1	mg/L	SW6010C	0.035	1	
MW-42B	12/14/2016	Magnesium_Total	69	1	mg/L	SW6010C	0.011	0.2	
MW-42B	12/14/2016	Chloride	210	1	mg/L	SW9056A	5.1	60	
MW-42B	12/14/2016	Sulfate	1600	1	mg/L	SW9056A	4.6	100	
MW-42B	12/14/2016	Fluoride	0.69	1	mg/L	SW9056A	0.06	0.5	
MW-42B	12/14/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	12/14/2016	barium_Total	0.046	1	mg/L	SW6020A	0.00029	0.001	
MW-42B	12/14/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	12/14/2016	Boron_Total	0.89	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	12/14/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	12/14/2016	chromium_Total	0.0029	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	12/14/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	12/14/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	12/14/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	12/14/2016	Molybdenum_Total	0.13	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	12/14/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	12/14/2016	Lithium_Total	0.061	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	12/14/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-42B	12/14/2016	Ra-226,228, tot	0.59	1	pCi/L	RA226RA228	0.513	0.513	
MW-42B	12/14/2016	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	2/15/2017	Lab pH	7.8	1	STD	SW9040B	0.1	0.1	HF
MW-42B	2/15/2017	Residue, Filterable (TDS) @180C	2900	1	mg/L	SM2540C	9.4	20	
MW-42B	2/15/2017	Calcium_Total	340	1	mg/L	SW6010C	0.035	1	
MW-42B	2/15/2017	Magnesium_Total	70	1	mg/L	SW6010C	0.011	0.2	
MW-42B	2/15/2017	Chloride	220	1	mg/L	SW9056A	2.5	30	
MW-42B	2/15/2017	Sulfate	1600	1	mg/L	SW9056A	2.3	50	
MW-42B	2/15/2017	Fluoride	0.7	1	mg/L	SW9056A	0.06	0.5	
MW-42B	2/15/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	2/15/2017	barium_Total	0.046	1	mg/L	SW6020A	0.00029	0.001	
MW-42B	2/15/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	2/15/2017	Boron_Total	0.91	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	2/15/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	2/15/2017	chromium_Total	0.0036	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	2/15/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	2/15/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	2/15/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	2/15/2017	Molybdenum_Total	0.15	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	2/15/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	2/15/2017	Lithium_Total	0.063	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	2/15/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-42B	4/3/2017	Lead_Total	0.01	0	mg/L	SW6020A	0.0018	0.01	U

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-42B	4/3/2017	Thallium_Total	0.01	0	mg/L	SW6020A	0.0005	0.01	U
MW-42B	4/3/2017	Molybdenum_Total	0.17	1	mg/L	SW6020A	0.0014	0.02	
MW-42B	4/3/2017	Antimony_Total	0.02	0	mg/L	SW6020A	0.004	0.02	U
MW-42B	4/3/2017	Lithium_Total	0.083	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	4/3/2017	Selenium_Total	0.05	0	mg/L	SW6020A	0.007	0.05	U
MW-42B	4/3/2017	Ra-226,228,tot	0.477	1	pCi/L	RA226RA228	0.344	0.344	
MW-42B	4/3/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	5/17/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	5/17/2017	barium_Total	0.032	1	mg/L	SW6020A	0.00029	0.001	
MW-42B	5/17/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	5/17/2017	Boron_Total	0.87	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	5/17/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	5/17/2017	chromium_Total	0.0027	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	5/17/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	5/17/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	5/17/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	5/17/2017	Molybdenum_Total	0.18	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	5/17/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	5/17/2017	Lithium_Total	0.075	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	5/17/2017	Selenium_Total	0.0065	1	mg/L	SW6020A	0.0007	0.005	
MW-42B	6/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	6/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	6/13/2017	Molybdenum_Total	0.17	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	6/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	6/13/2017	Lithium_Total	0.081	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	6/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-42B	6/13/2017	Ra-226,228,tot	0.609	1	pCi/L	RA226RA228	0.405	0.405	
MW-42B	6/13/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	7/27/2017	barium_Total	0.027	1	mg/L	SW6020A	0.00029	0.001	
MW-42B	7/27/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	7/27/2017	Boron_Total	1	1	mg/L	SW6010C	0.0044	0.1	
MW-42B	7/27/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	7/27/2017	chromium_Total	0.0025	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	7/27/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	7/27/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	7/27/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	7/27/2017	Molybdenum_Total	0.15	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	7/27/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	7/27/2017	Lithium_Total	0.071	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	7/27/2017	Selenium_Total	0.0055	1	mg/L	SW6020A	0.0007	0.005	
MW-43B	9/1/2016	Chloride	69	1	mg/L	SW9056A	0.25	3	
MW-43B	9/1/2016	Sulfate	660	1	mg/L	SW9056A	1.2	25	
MW-43B	9/1/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	9/1/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	9/1/2016	barium_Total	0.056	1	mg/L	SW6020A	0.00029	0.001	
MW-43B	9/1/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	9/1/2016	Boron_Total	0.33	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	9/1/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	9/1/2016	chromium_Total	0.003	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	9/1/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	9/1/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	11/11/2016	Residue, Filterable (TDS) @180C	1000	1	mg/L	SM2540C	4.7	10	
MW-43B	11/11/2016	Calcium_Total	140	1	mg/L	SW6010C	0.035	1	
MW-43B	11/11/2016	Magnesium_Total	51	1	mg/L	SW6010C	0.011	0.2	
MW-43B	11/11/2016	Chloride	42	1	mg/L	SW9056A	0.25	3	
MW-43B	11/11/2016	Sulfate	470	1	mg/L	SW9056A	1.2	25	
MW-43B	11/11/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	11/11/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	11/11/2016	barium_Total	0.038	1	mg/L	SW6020A	0.00029	0.001	^
MW-43B	11/11/2016	Ra-226,228,tot	0.722	1	pCi/L	RA226RA228	0.442	0.442	
MW-43B	11/11/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	12/14/2016	Lab pH	7.7	1	STD	SW9040B	0.1	0.1	HF
MW-43B	12/14/2016	Residue, Filterable (TDS) @180C	970	1	mg/L	SM2540C	4.7	10	
MW-43B	12/14/2016	Calcium_Total	120	1	mg/L	SW6010C	0.035	1	
MW-43B	12/14/2016	Magnesium_Total	43	1	mg/L	SW6010C	0.011	0.2	
MW-43B	12/14/2016	Chloride	40	1	mg/L	SW9056A	0.25	3	
MW-43B	12/14/2016	Sulfate	450	1	mg/L	SW9056A	1.2	25	
MW-43B	12/14/2016	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	12/14/2016	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	12/14/2016	barium_Total	0.034	1	mg/L	SW6020A	0.00029	0.001	
MW-43B	12/14/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	12/14/2016	Boron_Total	0.34	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	12/14/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	12/14/2016	chromium_Total	0.0089	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	12/14/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	12/14/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	7/27/2017	Residue, Filterable (TDS) @180C	3400	1	mg/L	SM2540C	19	40	
MW-42B	7/27/2017	Calcium_Total	410	1	mg/L	SW6010C	0.035	1	
MW-42B	7/27/2017	Magnesium_Total	83	1	mg/L	SW6010C	0.011	0.2	
MW-42B	7/27/2017	Chloride	300	1	mg/L	SW9056A	1.3	15	
MW-42B	7/27/2017	Sulfate	1900	1	mg/L	SW9056A	4.6	100	
MW-42B	7/27/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-42B	7/27/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	7/27/2017	Ra-226,228,tot	0.503	0	pCi/L	RA226RA228	0.503	0.503	
MW-42B	7/27/2017	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	9/1/2016	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	4.7	10	
MW-43B	9/1/2016	Calcium_Total	180	1	mg/L	SW6010C	0.035	1	
MW-43B	9/1/2016	Magnesium_Total	63	1	mg/L	SW6010C	0.011	0.2	
MW-43B	9/1/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	9/1/2016	Molybdenum_Total	0.049	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	9/1/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	9/1/2016	Lithium_Total	0.041	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	9/1/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	9/1/2016	Ra-226,228,tot	0.525	1	pCi/L	RA226RA228	0.451	0.451	
MW-43B	9/1/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	11/11/2016	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	11/11/2016	Boron_Total	0.35	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	11/11/2016	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	11/11/2016	chromium_Total	0.008	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	11/11/2016	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	11/11/2016	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	11/11/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	11/11/2016	Molybdenum_Total	0.048	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	11/11/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	11/11/2016	Lithium_Total	0.04	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	11/11/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	12/14/2016	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	12/14/2016	Molybdenum_Total	0.043	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	12/14/2016	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	12/14/2016	Lithium_Total	0.038	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	12/14/2016	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	12/14/2016	Ra-226,228,tot	0.714	0	pCi/L	RA226RA228	0.714	0.714	U
MW-43B	12/14/2016	Mercury,total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	2/15/2017	barium_Total	0.034	1	mg/L	SW6020A	0.00029	0.001	
MW-43B	2/15/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	2/15/2017	Boron_Total	0.35	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	2/15/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	2/15/2017	chromium_Total	0.0076	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	2/15/2017	Cobalt_Total	0.001	1	mg/L	SW6020A	0.000054	0.001	
MW-43B	2/15/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	2/15/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	2/15/2017	Molybdenum_Total	0.039	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	2/15/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	2/15/2017	Lithium_Total	0.035	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	2/15/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	4/4/2017	Chloride	42	1	mg/L	SW9056A	0.25	3	
MW-43B	4/4/2017	Sulfate	400	1	mg/L	SW90			

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-43B	4/4/2017	Arsenic_Total	0.05	0	mg/L	SW6020A	0.0033	0.05	U
MW-43B	4/4/2017	barium_Total	0.033	1	mg/L	SW6020A	0.0029	0.01	
MW-43B	4/4/2017	Beryllium_Total	0.01	0	mg/L	SW6020A	0.0008	0.01	U
MW-43B	4/4/2017	Boron_Total	0.35	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	4/4/2017	Cadmium_Total	0.01	0	mg/L	SW6020A	0.0027	0.01	U
MW-43B	4/4/2017	chromium_Total	0.02	0	mg/L	SW6020A	0.005	0.02	U
MW-43B	4/4/2017	Cobalt_Total	0.01	0	mg/L	SW6020A	0.00054	0.01	U
MW-43B	4/4/2017	Lead_Total	0.01	0	mg/L	SW6020A	0.0018	0.01	U
MW-43B	5/17/2017	Lab pH	8	1	STD	SW9040B	0.1	0.1	HF
MW-43B	5/17/2017	Residue, Filterable (TDS) @180C	910	1	mg/L	SM2540C	4.7	10	
MW-43B	5/17/2017	Calcium_Total	110	1	mg/L	SW6010C	0.035	1	
MW-43B	5/17/2017	Magnesium_Total	38	1	mg/L	SW6010C	0.011	0.2	
MW-43B	5/17/2017	Chloride	47	1	mg/L	SW9056A	0.25	3	
MW-43B	5/17/2017	Sulfate	420	1	mg/L	SW9056A	1.2	25	
MW-43B	5/17/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	5/17/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	2/15/2017	Lab pH	7.9	1	STD	SW9040B	0.1	0.1	HF
MW-43B	2/15/2017	Residue, Filterable (TDS) @180C	910	1	mg/L	SM2540C	4.7	10	
MW-43B	2/15/2017	Calcium_Total	120	1	mg/L	SW6010C	0.035	1	
MW-43B	2/15/2017	Magnesium_Total	43	1	mg/L	SW6010C	0.011	0.2	
MW-43B	2/15/2017	Chloride	39	1	mg/L	SW9056A	0.25	3	
MW-43B	2/15/2017	Sulfate	410	1	mg/L	SW9056A	1.2	25	
MW-43B	2/15/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	2/15/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	2/15/2017	Ra-226,228, tot	0.46	0	pCi/L	RA226RA228	0.46	0.46	U
MW-43B	2/15/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	4/4/2017	Residue, Filterable (TDS) @180C	890	1	mg/L	SM2540C	4.7	10	
MW-43B	4/4/2017	Calcium_Total	100	1	mg/L	SW6010C	0.035	1	
MW-43B	4/4/2017	Magnesium_Total	36	1	mg/L	SW6010C	0.011	0.2	
MW-43B	4/4/2017	Thallium_Total	0.01	0	mg/L	SW6020A	0.0005	0.01	U
MW-43B	4/4/2017	Molybdenum_Total	0.032	1	mg/L	SW6020A	0.0014	0.02	
MW-43B	4/4/2017	Antimony_Total	0.02	0	mg/L	SW6020A	0.004	0.02	U
MW-43B	4/4/2017	Lithium_Total	0.035	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	4/4/2017	Selenium_Total	0.05	0	mg/L	SW6020A	0.007	0.05	U
MW-43B	4/4/2017	Ra-226,228, tot	0.316	0	pCi/L	RA226RA228	0.316	0.316	U
MW-43B	4/4/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	5/17/2017	barium_Total	0.031	1	mg/L	SW6020A	0.0029	0.01	
MW-43B	5/17/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.0008	0.001	U
MW-43B	5/17/2017	Boron_Total	0.36	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	5/17/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	5/17/2017	chromium_Total	0.003	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	5/17/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	5/17/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	5/17/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	5/17/2017	Molybdenum_Total	0.034	1	mg/L	SW6020A	0.0014	0.02	
MW-43B	5/17/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	5/17/2017	Lithium_Total	0.031	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	5/17/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	6/13/2017	Chloride	48	1	mg/L	SW9056A	0.25	3	
MW-43B	6/13/2017	Sulfate	420	1	mg/L	SW9056A	1.2	25	
MW-43B	6/13/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	6/13/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	6/13/2017	barium_Total	0.029	1	mg/L	SW6020A	0.0029	0.01	B
MW-43B	6/13/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.0008	0.001	U
MW-43B	6/13/2017	Boron_Total	0.32	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	6/13/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	6/13/2017	chromium_Total	0.0024	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	6/13/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	6/13/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	6/13/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	6/13/2017	Molybdenum_Total	0.031	1	mg/L	SW6020A	0.0014	0.02	
MW-43B	6/13/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	6/13/2017	Lithium_Total	0.037	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	6/13/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	6/13/2017	Ra-226,228, tot	0.64	1	pCi/L	RA226RA228	0.398	0.398	
MW-43B	6/13/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	7/26/2017	Residue, Filterable (TDS) @180C	930	1	mg/L	SM2540C	4.7	10	
MW-43B	7/26/2017	Calcium_Total	110	1	mg/L	SW6010C	0.035	1	
MW-43B	7/26/2017	Magnesium_Total	39	1	mg/L	SW6010C	0.011	0.2	
MW-43B	7/26/2017	Chloride	50	1	mg/L	SW9056A	0.25	3	
MW-43B	7/26/2017	Sulfate	430	1	mg/L	SW9056A	1.2	25	
MW-43B	7/26/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	7/26/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	7/26/2017	barium_Total	0.03	1	mg/L	SW6020A	0.0029	0.01	
MW-43B	7/26/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.0008	0.001	U
MW-43B	7/26/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	5/17/2017	Ra-226,228, tot	0.315	0	pCi/L	RA226RA228	0.315	0.315	U
MW-43B	5/17/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	6/13/2017	Residue, Filterable (TDS) @180C	930	1	mg/L	SM2540C	4.7	10	
MW-43B	6/13/2017	Calcium_Total	100	1	mg/L	SW6010C	0.035	1	
MW-43B	6/13/2017	Magnesium_Total	37	1	mg/L	SW6010C	0.011	0.2	
MW-43B	7/26/2017	Boron_Total	0.34	1	mg/L	SW6010C	0.0044	0.1	
MW-43B	7/26/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	7/26/2017	chromium_Total	0.004	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	7/26/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	7/26/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	7/26/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	7/26/2017	Molybdenum_Total	0.03	1	mg/L	SW6020A	0.0014	0.02	
MW-43B	7/26/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	7/26/2017	Lithium_Total	0.033	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	7/26/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	7/26/2017	Ra-226,228, tot	0.384	0	pCi/L	RA226RA228	0.384	0.384	U
MW-52B	7/19/2017	Residue, Filterable (TDS) @180C	820	1	mg/L	SM2540C	4.7	10	
MW-52B	7/19/2017	Calcium_Total	120	1	mg/L	SW6010C	0.035	1	
MW-52B	7/19/2017	Magnesium_Total	42	1	mg/L	SW6010C	0.011	0.2	
MW-52B	7/19/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-52B	7/19/2017	Sulfate	370	1	mg/L	SW9056A	1.2	25	
MW-52B	7/19/2017	Fluoride	0.5	1	mg/L	SW9056A	0.06	0.5	
MW-52B	7/19/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	7/19/2017	barium_Total	0.13	1	mg/L	SW6020A	0.0029	0.01	
MW-52B	7/19/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.0008	0.001	U
MW-52B	7/19/2017	Boron_Total	0.15	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	7/19/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	7/19/2017	chromium_Total	0.0058	1	mg/L	SW6020A	0.0005	0.002	
MW-52B	7/19/2017	Cobalt_Total	0.0014	1	mg/L	SW6020A	0.000054	0.001	
MW-52B	7/19/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	7/19/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	7/19/2017	Molybdenum_Total	0.013	1	mg/L	SW6020A	0.0014	0.02	
MW-52B	7/19/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	7/19/2017	Lithium_Total	0.048	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	7/19/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	8/25/2017	Chloride	41	1	mg/L	SW9056A	0.25	3	
MW-52B	8/25/2017	Sulfate	410	1	mg/L	SW9056A	1.2	25	
MW-52B	8/25/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	8/25/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	8/25/2017	barium_Total	0.12	1	mg/L	SW6020A	0.0029	0.01	
MW-52B	8/25/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.0008	0.001	U
MW-52B	8/25/2017	Boron_Total	0.16	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	8/25/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	8/25/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	
MW-52B	8/25/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	8/25/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	8/25/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	8/25/2017	Molybdenum_Total	0.0094	1	mg/L	SW6020A	0.0014	0.02	
MW-52B	8/25/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	8/25/2017	Lithium_Total	0.039	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	8/25/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	8/25/2017	Ra-226,228, tot	0.903	1	pCi/L	RA226RA228	0.355	0.355	

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	8/25/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	8/31/2017	Boron_Total	0.16	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	8/31/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	8/31/2017	chromium_Total	0.011	1	mg/L	SW6020A	0.0005	0.002	
MW-52B	8/31/2017	Cobalt_Total	0.004	1	mg/L	SW6020A	0.000054	0.001	
MW-52B	8/31/2017	Lead_Total	0.0041	1	mg/L	SW6020A	0.00018	0.001	
MW-52B	8/31/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	8/31/2017	Molybdenum_Total	0.0088	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	8/31/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	8/31/2017	Lithium_Total	0.063	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	8/31/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	8/31/2017	Ra-226,228,tot	1.25	0	pCi/L	RA226RA228	0.395	0.395	
MW-52B	9/6/2017	Chloride	41	1	mg/L	SW9056A	0.25	3	
MW-52B	9/6/2017	Sulfate	430	1	mg/L	SW9056A	2.3	50	
MW-52B	9/6/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	9/6/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U^
MW-52B	9/6/2017	barium_Total	0.11	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	9/6/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U^
MW-52B	9/6/2017	Boron_Total	0.17	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	9/6/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U^
MW-52B	9/6/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	9/6/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	9/6/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	9/6/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	9/6/2017	Molybdenum_Total	0.0083	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	7/19/2017	Ra-226,228,tot	0.347	0	pCi/L	RA226RA228	0.467	0.467	U
MW-52B	7/19/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	8/25/2017	Residue, Filterable (TDS) @180C	920	1	mg/L	SM2540C	4.7	10	
MW-52B	8/25/2017	Calcium_Total	120	1	mg/L	SW6010C	0.035	1	
MW-52B	8/25/2017	Magnesium_Total	42	1	mg/L	SW6010C	0.011	0.2	
MW-52B	8/31/2017	Residue, Filterable (TDS) @180C	930	1	mg/L	SM2540C	4.7	10	
MW-52B	8/31/2017	Calcium_Total	160	1	mg/L	SW6010C	0.035	1	
MW-52B	8/31/2017	Magnesium_Total	54	1	mg/L	SW6010C	0.011	0.2	
MW-52B	8/31/2017	Chloride	41	1	mg/L	SW9056A	0.25	3	
MW-52B	8/31/2017	Sulfate	420	1	mg/L	SW9056A	2.3	50	
MW-52B	8/31/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	8/31/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	8/31/2017	barium_Total	0.24	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	8/31/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	8/31/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	9/6/2017	Residue, Filterable (TDS) @180C	980	1	mg/L	SM2540C	4.7	10	
MW-52B	9/6/2017	Calcium_Total	140	1	mg/L	SW6010C	0.035	1	
MW-52B	9/6/2017	Magnesium_Total	49	1	mg/L	SW6010C	0.011	0.2	
MW-52B	9/6/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U^
MW-52B	9/6/2017	Lithium_Total	0.045	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	9/6/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U^
MW-52B	9/6/2017	Ra-226,228,tot	1.2	0	pCi/L	RA226RA228	0.345	0.345	
MW-52B	9/6/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	9/14/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	9/14/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	9/14/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	9/14/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	9/14/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	9/14/2017	Molybdenum_Total	0.0071	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	9/14/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	9/14/2017	Lithium_Total	0.049	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	9/14/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	9/14/2017	Ra-226,228,tot	0.482	1	pCi/L	RA226RA228	0.352	0.352	
MW-52B	9/14/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	9/18/2017	Sulfate	420	1	mg/L	SW9056A	1.2	25	
MW-52B	9/18/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	9/18/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	9/18/2017	barium_Total	0.11	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	9/18/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	9/18/2017	Boron_Total	0.15	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	9/18/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	9/18/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	9/18/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	9/18/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	9/18/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	9/18/2017	Molybdenum_Total	0.0066	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	9/18/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	9/27/2017	Calcium_Total	140	1	mg/L	SW6010C	0.035	1	
MW-52B	9/27/2017	Magnesium_Total	49	1	mg/L	SW6010C	0.011	0.2	
MW-52B	9/27/2017	Chloride	40	1	mg/L	SW9056A	0.25	3	
MW-52B	9/27/2017	Sulfate	430	1	mg/L	SW9056A	1.2	25	
MW-52B	9/27/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	9/27/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	9/27/2017	barium_Total	0.11	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	9/27/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	9/27/2017	Boron_Total	0.15	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	9/27/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	9/27/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	10/3/2017	Residue, Filterable (TDS) @180C	1000	1	mg/L	SM2540C	4.7	10	
MW-52B	10/3/2017	Calcium_Total	130	1	mg/L	SW6010C	0.035	1	
MW-52B	10/3/2017	Magnesium_Total	53	1	mg/L	SW6010C	0.011	0.2	
MW-52B	10/3/2017	Chloride	42	1	mg/L	SW9056A	0.25	3	
MW-52B	10/3/2017	Sulfate	430	1	mg/L	SW9056A	1.2	25	
MW-52B	10/3/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	9/14/2017	Residue, Filterable (TDS) @180C	940	1	mg/L	SM2540C	4.7	10	
MW-52B	9/14/2017	Calcium_Total	130	1	mg/L	SW6010C	0.035	1	
MW-52B	9/14/2017	Magnesium_Total	54	1	mg/L	SW6010C	0.011	0.2	
MW-52B	9/14/2017	Chloride	43	1	mg/L	SW9056A	0.25	3	
MW-52B	9/14/2017	Sulfate	430	1	mg/L	SW9056A	2.3	50	
MW-52B	9/14/2017	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	9/14/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	9/14/2017	barium_Total	0.12	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	9/14/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	9/14/2017	Boron_Total	0.16	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	9/18/2017	Residue, Filterable (TDS) @180C	1000	1	mg/L	SM2540C	4.7	10	
MW-52B	9/18/2017	Calcium_Total	130	1	mg/L	SW6010C	0.035	1	
MW-52B	9/18/2017	Magnesium_Total	45	1	mg/L	SW6010C	0.011	0.2	
MW-52B	9/18/2017	Chloride	41	1	mg/L	SW9056A	0.25	3	
MW-52B	9/18/2017	Lithium_Total	0.049	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	9/18/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	9/18/2017	Ra-226,228,tot	0.566	1	pCi/L	RA226RA228	0.398	0.398	
MW-52B	9/18/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	9/27/2017	Residue, Filterable (TDS) @180C	960	1	mg/L	SM2540C	4.7	10	
MW-52B	9/27/2017	Cobalt_Total	0.001	1	mg/L	SW6020A	0.000054	0.001	
MW-52B	9/27/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	9/27/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	9/27/2017	Molybdenum_Total	0.0063	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	9/27/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	9/27/2017	Lithium_Total	0.05	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	9/27/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	9/27/2017	Ra-226,228,tot	0.37	0	pCi/L	RA226RA228	0.367	0.367	
MW-52B	9/27/2017	Mercury_total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	10/3/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	10/3/2017	barium_Total	0.096	1	mg/L	SW6020A	0.00029	0.001	^
MW-52B	10/3/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	10/3/2017	Boron_Total	0.15	1	mg/L	SW6010C	0.0044	0.1	
MW-52B	10/3/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	10/3/2017	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	10/3/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	10/3/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	10/3/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	10/3/2017	Molybdenum_Total	0.0056	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	10/3/2017	Antimony_Total	0.002						

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	10/3/2017	Lithium_Total	0.048	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	10/3/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	7/19/2017	Magnesium_Total	40	1	mg/L	SW6010C	0.011	0.2	
MW-53B	7/19/2017	Chloride	32	1	mg/L	SW9056A	0.25	3	
MW-53B	7/19/2017	Sulfate	220	1	mg/L	SW9056A	1.2	25	
MW-53B	7/19/2017	Fluoride	0.96	1	mg/L	SW9056A	0.06	0.5	
MW-53B	7/19/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	7/19/2017	barium_Total	0.1	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	7/19/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	7/19/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	7/19/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	7/19/2017	chromium_Total	0.0045	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	7/19/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	8/25/2017	Residue, Filterable (TDS) @180C	560	1	mg/L	SM2540C	4.7	10	
MW-53B	8/25/2017	Calcium_Total	81	1	mg/L	SW6010C	0.035	1	
MW-53B	8/25/2017	Magnesium_Total	30	1	mg/L	SW6010C	0.011	0.2	
MW-53B	8/25/2017	Chloride	34	1	mg/L	SW9056A	0.25	3	
MW-53B	8/25/2017	Sulfate	210	1	mg/L	SW9056A	1.2	25	
MW-53B	8/25/2017	Fluoride	0.91	1	mg/L	SW9056A	0.06	0.5	
MW-53B	8/25/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	8/25/2017	Ra-226,228, tot	1.09	1	pCi/L	RA226RA228	0.365	0.365	
MW-53B	8/25/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	8/31/2017	Residue, Filterable (TDS) @180C	540	1	mg/L	SM2540C	4.7	10	
MW-53B	8/31/2017	Calcium_Total	82	1	mg/L	SW6010C	0.035	1	
MW-53B	8/31/2017	Magnesium_Total	33	1	mg/L	SW6010C	0.011	0.2	
MW-52B	10/3/2017	Ra-226,228, tot	0.576	0	pCi/L	RA226RA228	0.408	0.408	
MW-52B	10/3/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	7/19/2017	Residue, Filterable (TDS) @180C	570	1	mg/L	SM2540C	4.7	10	
MW-53B	7/19/2017	Calcium_Total	95	1	mg/L	SW6010C	0.035	1	
MW-53B	7/19/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	7/19/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	7/19/2017	Molybdenum_Total	0.014	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	7/19/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	7/19/2017	Lithium_Total	0.042	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	7/19/2017	Selenium_Total	0.006	1	mg/L	SW6020A	0.0007	0.005	
MW-53B	7/19/2017	Ra-226,228, tot	0.682	0	pCi/L	RA226RA228	0.682	0.682	
MW-53B	7/19/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	8/25/2017	barium_Total	0.12	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	8/25/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	8/25/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	8/25/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	8/25/2017	chromium_Total	0.0038	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	8/25/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	8/25/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	8/25/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	8/25/2017	Molybdenum_Total	0.014	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	8/25/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	8/25/2017	Lithium_Total	0.033	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	8/25/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	8/31/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-53B	8/31/2017	Sulfate	220	1	mg/L	SW9056A	2.3	50	
MW-53B	8/31/2017	Fluoride	0.88	1	mg/L	SW9056A	0.06	0.5	
MW-53B	8/31/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	8/31/2017	barium_Total	0.13	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	8/31/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	8/31/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	8/31/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	8/31/2017	chromium_Total	0.0045	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	8/31/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	8/31/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	9/6/2017	Residue, Filterable (TDS) @180C	560	1	mg/L	SM2540C	4.7	10	
MW-53B	9/6/2017	Calcium_Total	79	1	mg/L	SW6010C	0.035	1	
MW-53B	9/6/2017	Magnesium_Total	31	1	mg/L	SW6010C	0.011	0.2	
MW-53B	9/6/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-53B	9/6/2017	Sulfate	210	1	mg/L	SW9056A	2.3	50	
MW-53B	9/6/2017	Fluoride	1	1	mg/L	SW9056A	0.06	0.5	
MW-53B	9/6/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U^
MW-53B	9/6/2017	barium_Total	0.13	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	9/6/2017	Ra-226,228, tot	0.407	0	pCi/L	RA226RA228	0.4	0.4	
MW-53B	9/6/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	9/14/2017	Residue, Filterable (TDS) @180C	590	1	mg/L	SM2540C	4.7	10	
MW-53B	9/14/2017	Calcium_Total	77	1	mg/L	SW6010C	0.035	1	
MW-53B	9/14/2017	Magnesium_Total	44	1	mg/L	SW6010C	0.011	0.2	
MW-53B	9/14/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-53B	9/14/2017	Sulfate	220	1	mg/L	SW9056A	2.3	50	
MW-53B	9/14/2017	Fluoride	0.93	1	mg/L	SW9056A	0.06	0.5	
MW-53B	9/14/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	9/14/2017	barium_Total	0.094	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	9/14/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	9/14/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	9/14/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	9/14/2017	chromium_Total	0.0028	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	9/14/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	9/14/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	9/14/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	9/18/2017	Residue, Filterable (TDS) @180C	580	1	mg/L	SM2540C	4.7	10	
MW-53B	9/18/2017	Calcium_Total	76	1	mg/L	SW6010C	0.035	1	
MW-53B	9/18/2017	Magnesium_Total	33	1	mg/L	SW6010C	0.011	0.2	
MW-53B	9/18/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-53B	9/18/2017	Sulfate	210	1	mg/L	SW9056A	1.2	25	
MW-53B	9/18/2017	Fluoride	1	1	mg/L	SW9056A	0.06	0.5	
MW-53B	9/18/2017	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	9/18/2017	barium_Total	0.094	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	9/18/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	8/31/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	8/31/2017	Molybdenum_Total	0.015	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	8/31/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	8/31/2017	Lithium_Total	0.042	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	8/31/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	8/31/2017	Ra-226,228, tot	0.426	0	pCi/L	RA226RA228	0.426	0.426	U
MW-53B	8/31/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	9/6/2017	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U^
MW-53B	9/6/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	9/6/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U^
MW-53B	9/6/2017	chromium_Total	0.0052	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	9/6/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	9/6/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	9/6/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	9/6/2017	Molybdenum_Total	0.015	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	9/6/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U^
MW-53B	9/6/2017	Lithium_Total	0.035	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	9/6/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U^
MW-53B	9/14/2017	Molybdenum_Total	0.012	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	9/14/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	9/14/2017	Lithium_Total	0.038	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	9/14/2017	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	9/14/2017	Ra-226,228, tot	0.424	0	pCi/L	RA226RA228	0.424	0.424	U
MW-53B	9/14/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	9/18/2017	Boron_Total	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	9/18/2017	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	9/18/2017	chromium_Total	0.0033	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	9/18/2017	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	9/18/2017	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	9/18/2017	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	9/18/2017	Molybdenum_Total	0.012	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	9/18/2017	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	9/18/2017	Lithium_Total	0.041	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	9/18/2017	Selenium_Total	0.005	0	mg/L</				

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-53B	9/18/2017	Ra-226,228, tot	0.432	0	pCi/L	RA226RA228	0.432	0.432	U
MW-53B	9/18/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-53B	9/27/2017	Residue, Filterable (TDS) @180C	620	1	mg/L	SM2540C	4.7	10	
MW-53B	9/27/2017	Calcium_Tot	78	1	mg/L	SW6010C	0.035	1	
MW-53B	9/27/2017	Magnesium_Tot	42	1	mg/L	SW6010C	0.011	0.2	
MW-53B	9/27/2017	Chloride	32	1	mg/L	SW9056A	0.25	3	
MW-53B	9/27/2017	Lithium_Tot	0.042	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	9/27/2017	Selenium_Tot	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	9/27/2017	Ra-226,228, tot	0.375	0	pCi/L	RA226RA228	0.375	0.375	U
MW-53B	9/27/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-53B	10/3/2017	Residue, Filterable (TDS) @180C	610	1	mg/L	SM2540C	4.7	10	
MW-53B	10/3/2017	Calcium_Tot	78	1	mg/L	SW6010C	0.035	1	
MW-53B	10/3/2017	Magnesium_Tot	40	1	mg/L	SW6010C	0.011	0.2	
MW-53B	10/3/2017	Chloride	33	1	mg/L	SW9056A	0.25	3	
MW-53B	10/3/2017	Sulfate	220	1	mg/L	SW9056A	1.2	25	
MW-53B	10/3/2017	Fluoride	1.1	1	mg/L	SW9056A	0.06	0.5	
MW-53B	10/3/2017	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	10/3/2017	barium_Tot	0.081	1	mg/L	SW6020A	0.00029	0.001	^
MW-53B	10/3/2017	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	10/3/2017	Boron_Tot	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	10/3/2017	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	9/27/2017	Sulfate	220	1	mg/L	SW9056A	1.2	25	
MW-53B	9/27/2017	Fluoride	1.1	1	mg/L	SW9056A	0.06	0.5	
MW-53B	9/27/2017	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	9/27/2017	barium_Tot	0.07	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	9/27/2017	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	9/27/2017	Boron_Tot	0.1	0	mg/L	SW6010C	0.0044	0.1	U
MW-53B	9/27/2017	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	9/27/2017	chromium_Tot	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-53B	9/27/2017	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	9/27/2017	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	9/27/2017	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	9/27/2017	Molybdenum_Tot	0.01	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	9/27/2017	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	10/3/2017	chromium_Tot	0.0022	1	mg/L	SW6020A	0.0005	0.002	
MW-53B	10/3/2017	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	10/3/2017	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	10/3/2017	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	10/3/2017	Molybdenum_Tot	0.011	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	10/3/2017	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	10/3/2017	Lithium_Tot	0.04	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	10/3/2017	Selenium_Tot	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	10/3/2017	Ra-226,228, tot	1.88	0	pCi/L	RA226RA228	0.44	0.44	
MW-53B	10/3/2017	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-32B	4/3/2018	Fluoride	0.64	1	mg/L	SW9056A	0.06	0.5	
MW-32B	4/3/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	4/3/2018	barium_Tot	0.039	1	mg/L	SW6020A	0.00029	0.001	J+
MW-32B	4/3/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	4/3/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-32B	4/3/2018	chromium_Tot	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	4/3/2018	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-32B	4/3/2018	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	4/3/2018	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	4/3/2018	Molybdenum_Tot	0.005	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	4/3/2018	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	4/3/2018	Lithium_Tot	0.08	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	4/3/2018	Selenium_Tot	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	4/3/2018	Ra-226,228, tot	0.983	1	pCi/L	RA226RA228	0.407	0.407	J
MW-32B	4/3/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-39B	4/3/2018	Fluoride	0.64	1	mg/L	SW9056A	0.06	0.5	
MW-39B	4/3/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	4/3/2018	barium_Tot	0.047	1	mg/L	SW6020A	0.00029	0.001	J+
MW-39B	4/3/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	4/3/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-39B	4/3/2018	chromium_Tot	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	4/3/2018	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-39B	4/3/2018	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	4/3/2018	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	4/3/2018	Molybdenum_Tot	0.013	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	4/3/2018	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	4/3/2018	Lithium_Tot	0.066	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	4/3/2018	Selenium_Tot	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	4/3/2018	Ra-226,228, tot	0.758	1	pCi/L	RA226RA228	0.364	0.364	J
MW-39B	4/3/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-41B	4/4/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	4/4/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	4/4/2018	barium_Tot	0.033	1	mg/L	SW6020A	0.00029	0.001	J+
MW-41B	4/4/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	4/4/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-41B	4/4/2018	chromium_Tot	0.0034	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	4/4/2018	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-41B	4/4/2018	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	4/4/2018	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-41B	4/4/2018	Molybdenum_Tot	0.064	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	4/4/2018	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	4/4/2018	Lithium_Tot	0.066	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	4/4/2018	Selenium_Tot	0.0089	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	4/4/2018	Ra-226,228, tot	0.398	0	pCi/L	RA226RA228	0.398	0.398	UJ
MW-41B	4/4/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-42B	4/4/2018	Fluoride	0.74	1	mg/L	SW9056A	0.06	0.5	
MW-42B	4/4/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	4/4/2018	barium_Tot	0.027	1	mg/L	SW6020A	0.00029	0.001	J+
MW-42B	4/4/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	4/4/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-42B	4/4/2018	chromium_Tot	0.0032	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	4/4/2018	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-42B	4/4/2018	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	4/4/2018	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-42B	4/4/2018	Molybdenum_Tot	0.12	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	4/4/2018	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	4/4/2018	Lithium_Tot	0.068	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	4/4/2018	Selenium_Tot	0.0077	1	mg/L	SW6020A	0.0007	0.005	
MW-42B	4/4/2018	Ra-226,228, tot	0.508	1	pCi/L	RA226RA228	0.371	0.371	J
MW-43B	4/4/2018	Selenium_Tot	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	4/4/2018	Ra-226,228, tot	0.393	0	pCi/L	RA226RA228	0.393	0.393	UJ
MW-43B	4/4/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-42B	4/4/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.00027	0.0002	U
MW-43B	4/4/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	4/4/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	4/4/2018	barium_Tot	0.038	1	mg/L	SW6020A	0.00029	0.001	J+
MW-43B	4/4/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	4/4/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-43B	4/4/2018	chromium_Tot	0.0025	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	4/4/2018	Cobalt_Tot	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-43B	4/4/2018	Lead_Tot	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	4/4/2018	Thallium_Tot	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-43B	4/4/2018	Molybdenum_Tot	0.037	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	4/4/2018	Antimony_Tot	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-43B	4/4/2018	Lithium_Tot	0.04	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	4/4/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	4/4/2018	Arsenic_Tot	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	4/4/2018	barium_Tot	0.11	1	mg/L	SW6020A	0.00029	0.001	J+
MW-52B	4/4/2018	Beryllium_Tot	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	4/4/2018	Cadmium_Tot	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-52B	4/4/2018	chromium_Tot	0.002	0	mg/L	SW6020A	0.0005	0.002	U
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WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	4/4/2018	Molybdenum_Total	0.0053	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	4/4/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	4/4/2018	Lithium_Total	0.048	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	4/4/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	4/4/2018	Ra-226,228, tot	0.617	1	pCi/L	RA226RA228	0.399	0.399	J
MW-52B	4/4/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	4/4/2018	Fluoride	1.1	1	mg/L	SW9056A	0.06	0.5	
MW-53B	4/4/2018	Ra-226,228, tot	0.37	0	pCi/L	RA226RA228	0.37	0.37	UJ
MW-53B	4/4/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	4/4/2018	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	4/4/2018	barium_Total	0.055	1	mg/L	SW6020A	0.00029	0.001	J+
MW-53B	4/4/2018	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	4/4/2018	Cadmium_Total	0.001	0	mg/L	SW6020A	0.00027	0.001	U
MW-53B	4/4/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-53B	4/4/2018	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	4/4/2018	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	4/4/2018	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	4/4/2018	Molybdenum_Total	0.007	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	4/4/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	4/4/2018	Lithium_Total	0.042	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	4/4/2018	Selenium_Total	0.0069	1	mg/L	SW6020A	0.0007	0.005	
MW-32B	6/27/2018	Chloride	85.6	1	mg/L	SW9056A	0.254	3	J+
MW-32B	6/27/2018	Sulfate	845	1	mg/L	SW9056A	1.16	25	
MW-32B	6/27/2018	Fluoride	0.657	1	mg/L	SW9056A	0.06	0.5	J+
MW-32B	6/27/2018	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	6/27/2018	barium_Total	0.0371	1	mg/L	SW6020A	0.00029	0.001	J+
MW-32B	6/27/2018	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	6/27/2018	Boron_Total	0.294	1	mg/L	SW6010C	0.00437	0.1	
MW-32B	6/27/2018	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-32B	6/27/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-32B	6/27/2018	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	6/27/2018	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-32B	6/27/2018	Molybdenum_Total	0.00568	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	6/27/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	6/27/2018	Residue, Filterable (TDS) @180C	1780	1	mg/L	SM2540C	9.4	20	
MW-32B	6/27/2018	Calcium_Total	189	1	mg/L	SW6010C	0.0345	0.2	
MW-32B	6/27/2018	Magnesium_Total	105	1	mg/L	SW6010C	0.0107	0.2	
MW-32B	6/27/2018	Lithium_Total	0.0769	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	6/27/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-32B	6/27/2018	Ra-226,228, tot	0.687	0	pCi/L	RA226RA228	0.347	0.687	U
MW-32B	6/27/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	6/27/2018	Sulfate	582	1	mg/L	SW9056A	1.16	25	
MW-39B	6/27/2018	Fluoride	0.686	1	mg/L	SW9056A	0.06	0.5	J+
MW-39B	6/27/2018	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	6/27/2018	barium_Total	0.0404	1	mg/L	SW6020A	0.00029	0.001	J+
MW-39B	6/27/2018	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	6/27/2018	Boron_Total	0.192	1	mg/L	SW6010C	0.00437	0.1	
MW-39B	6/27/2018	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-39B	6/27/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	6/27/2018	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	6/27/2018	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-39B	6/27/2018	Molybdenum_Total	0.0134	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	6/27/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	6/27/2018	Lithium_Total	0.0608	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	6/27/2018	Residue, Filterable (TDS) @180C	1350	1	mg/L	SM2540C	9.4	20	
MW-39B	6/27/2018	Calcium_Total	181	1	mg/L	SW6010C	0.0345	0.2	
MW-39B	6/27/2018	Magnesium_Total	83.8	1	mg/L	SW6010C	0.0107	0.2	
MW-39B	6/27/2018	Chloride	46.4	1	mg/L	SW9056A	0.254	3	J+
MW-39B	6/27/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-39B	6/27/2018	Ra-226,228, tot	0.806	0	pCi/L	RA226RA228	0.298	0.806	U
MW-39B	6/27/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	6/26/2018	Residue, Filterable (TDS) @180C	3050	1	mg/L	SM2540C	9.4	20	
MW-41B	6/26/2018	Calcium_Total	351	1	mg/L	SW6010C	0.0345	0.2	
MW-41B	6/26/2018	Chloride	225	1	mg/L	SW9056A	1.27	15	J+
MW-41B	6/26/2018	Sulfate	1660	1	mg/L	SW9056A	4.64	100	
MW-41B	6/26/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-41B	6/26/2018	barium_Total	0.0351	1	mg/L	SW6020A	0.00029	0.001	J+
MW-41B	6/26/2018	Boron_Total	0.703	1	mg/L	SW6010C	0.00437	0.1	
MW-41B	6/26/2018	chromium_Total	0.00335	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	6/26/2018	Molybdenum_Total	0.0678	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	6/26/2018	Lithium_Total	0.0631	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	6/26/2018	Selenium_Total	0.00832	1	mg/L	SW6020A	0.0007	0.005	
MW-41B	6/26/2018	Ra-226,228, tot	0.73	0	pCi/L	RA226RA228	0.304	0.73	U
MW-42B	6/26/2018	Residue, Filterable (TDS) @180C	3170	1	mg/L	SM2540C	9.4	20	
MW-42B	6/26/2018	Calcium_Total	384	1	mg/L	SW6010C	0.0345	0.2	
MW-42B	6/26/2018	Chloride	245	1	mg/L	SW9056A	1.27	15	J+
MW-42B	6/26/2018	Sulfate	1760	1	mg/L	SW9056A	4.64	100	
MW-42B	6/26/2018	Fluoride	0.532	1	mg/L	SW9056A	0.06	0.5	J+
MW-42B	6/26/2018	barium_Total	0.0252	1	mg/L	SW6020A	0.00029	0.001	J+
MW-42B	6/26/2018	Boron_Total	1.07	1	mg/L	SW6010C	0.00437	0.1	
MW-42B	6/26/2018	chromium_Total	0.00217	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	6/26/2018	Molybdenum_Total	0.143	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	6/26/2018	Lithium_Total	0.0708	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	6/26/2018	Chloride	47.2	1	mg/L	SW9056A	0.254	3	J+
MW-43B	6/26/2018	Sulfate	423	1	mg/L	SW9056A	1.16	25	
MW-43B	6/26/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-43B	6/26/2018	barium_Total	0.0309	1	mg/L	SW6020A	0.00029	0.001	J+
MW-43B	6/26/2018	Boron_Total	0.366	1	mg/L	SW6010C	0.00437	0.1	
MW-43B	6/26/2018	chromium_Total	0.00218	1	mg/L	SW6020A	0.0005	0.002	
MW-43B	6/26/2018	Molybdenum_Total	0.0346	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	6/26/2018	Lithium_Total	0.0305	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	6/26/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-43B	6/26/2018	Ra-226,228, tot	0.322	0	pCi/L	RA226RA228	0.322	0.322	U
MW-42B	6/26/2018	Selenium_Total	0.00714	1	mg/L	SW6020A	0.0007	0.005	
MW-42B	6/26/2018	Ra-226,228, tot	0.472	0	pCi/L	RA226RA228	0.305	0.472	U
MW-43B	6/26/2018	Residue, Filterable (TDS) @180C	996	1	mg/L	SM2540C	4.7	10	
MW-43B	6/26/2018	Calcium_Total	118	1	mg/L	SW6010C	0.0345	0.2	
MW-52B	6/27/2018	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	6/27/2018	barium_Total	0.0861	1	mg/L	SW6020A	0.00029	0.001	J+
MW-52B	6/27/2018	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	6/27/2018	Boron_Total	0.16	1	mg/L	SW6010C	0.00437	0.1	
MW-52B	6/27/2018	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-52B	6/27/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	6/27/2018	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	6/27/2018	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-52B	6/27/2018	Molybdenum_Total	0.00452	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	6/27/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	6/27/2018	Lithium_Total	0.0476	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	6/27/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-52B	6/27/2018	Residue, Filterable (TDS) @180C	1080	1	mg/L	SM2540C	4.7	10	
MW-52B	6/27/2018	Calcium_Total	175	1	mg/L	SW6010C	0.0345	0.2	
MW-52B	6/27/2018	Magnesium_Total	53.2	1	mg/L	SW6010C	0.0107	0.2	
MW-52B	6/27/2018	Chloride	39.4	1	mg/L	SW9056A	0.254	3	J+
MW-52B	6/27/2018	Sulfate	499	1	mg/L	SW9056A	1.16	25	
MW-52B	6/27/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	6/27/2018	Ra-226,228, tot	0.873	0	pCi/L	RA226RA228	0.317	0.873	U
MW-52B	6/27/2018	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	6/27/2018	Residue, Filterable (TDS) @180C	691	1	mg/L	SM2540C	4.7	10	
MW-53B	6/27/2018	Calcium_Total	102	1	mg/L	SW6010C	0.0345	0.2	
MW-53B	6/27/2018	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-53B	6/27/2018	Thallium_Total	0.001	0	mg/L	SW6020A	0.00005	0.001	U
MW-53B	6/27/2018	Molybdenum_Total	0.00851	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	6/27/2018	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-53B	6/27/2018	Lithium_Total	0.0384	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	6/27/2018	Selenium_Total	0.00636	1	mg/L	SW6020A	0.0007	0.005	
MW-53B	6/27/2018	Ra-226,228, tot	0.4	0	pCi/L	RA226RA228	0.4	0.4	U
MW-53B	6								

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-53B	6/27/2018	Chloride	36.6	1	mg/L	SW9056A	0.254	3	J+
MW-53B	6/27/2018	Sulfate	242	1	mg/L	SW9056A	0.464	10	
MW-53B	6/27/2018	Fluoride	1.33	1	mg/L	SW9056A	0.06	0.5	J+
MW-53B	6/27/2018	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	6/27/2018	barium_Total	0.0522	1	mg/L	SW6020A	0.00029	0.001	J+
MW-53B	6/27/2018	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	6/27/2018	Boron_Total	0.104	1	mg/L	SW6010C	0.00437	0.1	
MW-53B	6/27/2018	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-53B	6/27/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	10/24/2018	Residue, Filterable (TDS) @180C	1100	1	mg/L	SM2540C	4.7	10	J+
MW-52B	10/24/2018	Calcium_Total	168	1	mg/L	SW6010C	0.0345	0.2	
MW-52B	10/24/2018	Chloride	41.1	1	mg/L	SW9056A	0.254	3	
MW-52B	10/24/2018	Sulfate	469	1	mg/L	SW9056A	1.16	25	
MW-53B	10/24/2018	Sulfate	231	1	mg/L	SW9056A	1.16	25	
MW-53B	10/24/2018	Fluoride	1.21	1	mg/L	SW9056A	0.06	0.5	
MW-53B	10/24/2018	barium_Total	0.0531	1	mg/L	SW6020A	0.00029	0.001	
MW-53B	10/24/2018	Boron_Total	0.106	1	mg/L	SW6010C	0.00437	0.1	
MW-53B	10/24/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-53B	10/24/2018	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-53B	10/24/2018	Molybdenum_Total	0.00669	1	mg/L	SW6020A	0.00014	0.002	
MW-53B	10/24/2018	Lithium_Total	0.0412	1	mg/L	SW6010C	0.0091	0.02	
MW-53B	10/24/2018	Selenium_Total	0.00708	1	mg/L	SW6020A	0.0007	0.005	
MW-52B	10/24/2018	Fluoride	0.5	0	mg/L	SW9056A	0.06	0.5	U
MW-52B	10/24/2018	barium_Total	0.0819	1	mg/L	SW6020A	0.00029	0.001	
MW-52B	10/24/2018	Boron_Total	0.159	1	mg/L	SW6010C	0.00437	0.1	
MW-52B	10/24/2018	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	10/24/2018	Cobalt_Total	0.001	0	mg/L	SW6020A	0.000054	0.001	U
MW-52B	10/24/2018	Molybdenum_Total	0.00407	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	10/24/2018	Lithium_Total	0.0393	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	10/24/2018	Selenium_Total	0.005	0	mg/L	SW6020A	0.0007	0.005	U
MW-53B	10/24/2018	Residue, Filterable (TDS) @180C	711	1	mg/L	SM2540C	4.7	10	J+
MW-53B	10/24/2018	Calcium_Total	97.8	1	mg/L	SW6010C	0.0345	0.2	
MW-53B	10/24/2018	Chloride	40.5	1	mg/L	SW9056A	0.254	3	
MW-32B	6/5/2019	Residue, Filterable (TDS) @180C	1830	1	mg/L		9.4	20	
MW-32B	6/5/2019	Calcium_Total	202	1	mg/L		0.0778	0.2	
MW-32B	6/5/2019	Chloride	94.3	1	mg/L		1.02	3	
MW-32B	6/5/2019	Sulfate	877	1	mg/L		10.3	50	
MW-32B	6/5/2019	Fluoride	0.5	0	mg/L		0.06	0.5	U
MW-32B	6/5/2019	barium_Total	0.0349	1	mg/L		0.00029	0.001	
MW-32B	6/5/2019	Boron_Total	0.293	1	mg/L		0.00437	0.1	
MW-32B	6/5/2019	chromium_Total	0.002	0	mg/L		0.0005	0.002	U
MW-32B	6/5/2019	Molybdenum_Total	0.00358	1	mg/L		0.00014	0.002	
MW-32B	6/5/2019	Lithium_Total	0.0837	1	mg/L		0.0091	0.02	
MW-32B	6/5/2019	Selenium_Total	0.005	0	mg/L		0.000373	0.005	U
MW-32B	6/5/2019	Ra-226,228, tot	0.58	0	pCi/L		0.401	0.58	U
MW-39B	6/5/2019	Residue, Filterable (TDS) @180C	1340	1	mg/L		4.7	10	
MW-39B	6/5/2019	Calcium_Total	197	1	mg/L		0.0778	0.2	
MW-39B	6/5/2019	Chloride	49.9	1	mg/L		1.02	3	
MW-39B	6/5/2019	Sulfate	602	1	mg/L		10.3	50	
MW-41B	6/4/2019	Residue, Filterable (TDS) @180C	3400	1	mg/L		18.8	40	B
MW-41B	6/4/2019	Calcium_Total	396	1	mg/L		0.0778	0.2	
MW-42B	6/4/2019	Calcium_Total	413	1	mg/L		0.0778	0.2	
MW-42B	6/4/2019	Chloride	297	1	mg/L		2.04	6	
MW-42B	6/4/2019	Sulfate	2120	1	mg/L		20.6	100	
MW-42B	6/4/2019	Fluoride	1	0	mg/L		0.12	1	U
MW-42B	6/4/2019	barium_Total	0.0316	1	mg/L		0.00029	0.001	
MW-42B	6/4/2019	Boron_Total	0.897	1	mg/L		0.00437	0.1	
MW-42B	6/4/2019	chromium_Total	0.00272	1	mg/L		0.0005	0.002	
MW-42B	6/4/2019	Molybdenum_Total	0.138	1	mg/L		0.00014	0.002	
MW-42B	6/4/2019	Lithium_Total	0.0765	1	mg/L		0.0091	0.02	
MW-42B	6/4/2019	Selenium_Total	0.00699	1	mg/L		0.000373	0.005	
MW-42B	6/4/2019	Ra-226,228, tot	0.413	0	pCi/L		0.413	0.413	U
MW-43B	6/4/2019	Ra-226,228, tot	0.457	0	pCi/L		0.457	0.457	U
MW-39B	6/5/2019	Fluoride	0.5	0	mg/L		0.06	0.5	U
MW-39B	6/5/2019	barium_Total	0.0402	1	mg/L		0.00029	0.001	
MW-39B	6/5/2019	Boron_Total	0.189	1	mg/L		0.00437	0.1	
MW-39B	6/5/2019	chromium_Total	0.002	0	mg/L		0.0005	0.002	U
MW-39B	6/5/2019	Molybdenum_Total	0.00966	1	mg/L		0.00014	0.002	
MW-39B	6/5/2019	Lithium_Total	0.0704	1	mg/L		0.0091	0.02	
MW-39B	6/5/2019	Selenium_Total	0.005	0	mg/L		0.000373	0.005	U
MW-39B	6/5/2019	Ra-226,228, tot	0.508	0	pCi/L		0.403	0.508	U
MW-41B	6/4/2019	Chloride	277	1	mg/L		2.04	6	
MW-41B	6/4/2019	Sulfate	2030	1	mg/L		20.6	100	
MW-41B	6/4/2019	Fluoride	1	0	mg/L		0.12	1	U
MW-41B	6/4/2019	barium_Total	0.032	1	mg/L		0.00029	0.001	
MW-41B	6/4/2019	Boron_Total	0.714	1	mg/L		0.00437	0.1	
MW-41B	6/4/2019	chromium_Total	0.00282	1	mg/L		0.0005	0.002	
MW-41B	6/4/2019	Molybdenum_Total	0.097	1	mg/L		0.00014	0.002	
MW-41B	6/4/2019	Lithium_Total	0.0731	1	mg/L		0.0091	0.02	
MW-41B	6/4/2019	Selenium_Total	0.00611	1	mg/L		0.000373	0.005	
MW-41B	6/4/2019	Ra-226,228, tot	0.483	0	pCi/L		0.483	0.483	U
MW-42B	6/4/2019	Residue, Filterable (TDS) @180C	3470	1	mg/L		18.8	40	B
MW-43B	6/4/2019	Residue, Filterable (TDS) @180C	1170	1	mg/L		9.4	20	B
MW-43B	6/4/2019	Calcium_Total	146	1	mg/L		0.0778	0.2	
MW-43B	6/4/2019	Chloride	81.7	1	mg/L		1.02	3	
MW-43B	6/4/2019	Sulfate	611	1	mg/L		10.3	50	
MW-43B	6/4/2019	Fluoride	0.5	0	mg/L		0.06	0.5	U
MW-43B	6/4/2019	barium_Total	0.039	1	mg/L		0.00029	0.001	
MW-43B	6/4/2019	Boron_Total	0.319	1	mg/L		0.00437	0.1	
MW-43B	6/4/2019	chromium_Total	0.002	0	mg/L		0.0005	0.002	U
MW-43B	6/4/2019	Molybdenum_Total	0.0196	1	mg/L		0.00014	0.002	
MW-43B	6/4/2019	Lithium_Total	0.035	1	mg/L		0.0091	0.02	
MW-43B	6/4/2019	Selenium_Total	0.005	0	mg/L		0.000373	0.005	U
MW-52B	6/5/2019	Residue, Filterable (TDS) @180C	1120	1	mg/L		4.7	10	
MW-52B	6/5/2019	Calcium_Total	169	1	mg/L		0.0778	0.2	
MW-52B	6/5/2019	Chloride	42.8	1	mg/L		1.02	3	
MW-52B	6/5/2019	Sulfate	493	1	mg/L		5.15	25	
MW-52B	6/5/2019	Fluoride	0.5	0	mg/L		0.06	0.5	U
MW-52B	6/5/2019	barium_Total	0.075	1	mg/L		0.00029	0.001	
MW-52B	6/5/2019	Boron_Total	0.152	1	mg/L		0.00437	0.1	
MW-52B	6/5/2019	chromium_Total	0.002	0	mg/L		0.0005	0.002	U
MW-52B	6/5/2019	Cobalt_Total	0.001	0	mg/L		0.000054	0.001	U
MW-53B	6/5/2019	Lithium_Total	0.0375	1	mg/L		0.0091	0.02	
MW-53B	6/5/2019	Selenium_Total	0.00854	1	mg/L		0.000373	0.005	
MW-52B	6/5/2019	Molybdenum_Total	0.00417	1	mg/L		0.00014	0.002	
MW-52B	6/5/2019	Lithium_Total	0.0467	1	mg/L		0.0091	0.02	
MW-52B	6/5/2019	Selenium_Total	0.005	0	mg/L		0.000373	0.005	U
MW-53B	6/5/2019	Residue, Filterable (TDS) @180C	699	1	mg/L		4.7	10	
MW-53B	6/5/2019	Calcium_Total	104	1	mg/L		0.0778	0.2	
MW-53B	6/5/2019	Chloride	45.7	1	mg/L		1.02	3	
MW-53B	6/5/2019	Sulfate	247	1	mg/L		5.15	25	
MW-53B	6/5/2019	Fluoride	1.08	1	mg/L		0.06	0.5	
MW-53B	6/5/2019	barium_Total	0.0451	1	mg/L		0.00029	0.001	
MW-53B	6/5/2019	Boron_Total	0.1	0	mg/L		0.00437	0.1	U
MW-53B	6/5/2019	chromium_Total	0.002	0	mg/L		0.0005	0.002	U
MW-53B	6/5/2019	Cobalt_Total	0.001	0	mg/L		0.000054	0.001	U
MW-53B	6/5/2019	Molybdenum_Total	0.00563	1	mg/L		0.00014	0.002	
MW-32B	10/23/2019	Residue, Filterable (TDS) @180C	1780	1	mg/L	SM2540C	9.4	20	
MW-32B	10/23/2019	Molybdenum_Total	0.00389	1	mg/L	SW6020A	0.00014	0.002	
MW-32B	10/23/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-32B	10/23/2019	Lithium_Total	0.0739	1	mg/L	SW6010C	0.0091	0.02	
MW-32B	10/23/2019	Selenium_Total	0.005	0	mg/L	SW6020A	0.000373	0.005	U
MW-32B	10/23/2019	Ra-226,228, tot	0.414	0	pCi/L	RA226RA228	0.414	0.414	U
MW-32B	10/23/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	10/23/2019	Calcium_Total	198	1	mg/L	SW6010C	0.0778	0.2	
MW-32B	10/23/2019	Chloride	89.5	1	mg/L	SW9056A	1.02	3	
MW-32B	10/23/2019	Sulfate	840	1	mg/L	SW9056A	5.15	25	
MW-32B	10/23/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-32B	10/23/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-32B	10/23/2019	barium_Total	0.0323	1	mg/L	SW6020A	0.00029	0.001	J+
MW-32B	10/23/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-32B	10/23/2019	Boron_Total	0.295	1	mg/L	SW6010C	0.00437	0.1	
MW-32B	10/23/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-32B	10/23/2019	chromium_Total	0.00245	1	mg/L	SW6020A	0.0005	0.002	
MW-32B	10/23/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-32B	10/23/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-32B	10/23/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-39B	10/23/2019	Residue, Filterable (TDS) @180C	1310	1	mg/L	SM2540C	9.4	20	
MW-39B	10/23/2019	Calcium_Total	191	1	mg/L	SW6010C	0.0778	0.2	
MW-39B	10/23/2019	Chloride	45.8	1	mg/L	SW9056A	1.02	3	
MW-39B	10/23/2019	Sulfate	542	1	mg/L	SW9056A	5.15	25	
MW-39B	10/23/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-39B	10/23/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-39B	10/23/2019	barium_Total	0.038	1	mg/L	SW6020A	0.00029	0.001	J+
MW-39B	10/23/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-39B	10/23/2019	Boron_Total	0.183	1	mg/L	SW6010C	0.00437	0.1	
MW-39B	10/23/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-39B	10/23/2019	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-39B	10/23/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-39B	10/23/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-39B	10/23/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-39B	10/23/2019	Molybdenum_Total	0.00683	1	mg/L	SW6020A	0.00014	0.002	
MW-39B	10/23/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-39B	10/23/2019	Lithium_Total	0.0565	1	mg/L	SW6010C	0.0091	0.02	
MW-39B	10/23/2019	Selenium_Total	0.005	0	mg/L	SW6020A	0.000373	0.005	U
MW-39B	10/23/2019	Ra-226,228, tot	0.452	1	pCi/L	RA226RA228	0.445	0.445	
MW-39B	10/23/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	10/21/2019	chromium_Total	0.00314	1	mg/L	SW6020A	0.0005	0.002	
MW-41B	10/21/2019	Cobalt_Total	0.00114	1	mg/L	SW6020A	0.0000923	0.001	
MW-41B	10/21/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-41B	10/21/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-41B	10/21/2019	Molybdenum_Total	0.132	1	mg/L	SW6020A	0.00014	0.002	
MW-41B	10/21/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-41B	10/21/2019	Lithium_Total	0.0601	1	mg/L	SW6010C	0.0091	0.02	
MW-41B	10/21/2019	Selenium_Total	0.00638	1	mg/L	SW6020A	0.000373	0.005	
MW-41B	10/21/2019	Ra-226,228, tot	0.547	0	pCi/L	RA226RA228	0.547	0.547	U
MW-41B	10/21/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	10/21/2019	Residue, Filterable (TDS) @180C	2700	1	mg/L	SM2540C	18.8	40	
MW-42B	10/21/2019	Calcium_Total	332	1	mg/L	SW6010C	0.0778	0.2	
MW-42B	10/21/2019	Chloride	203	1	mg/L	SW9056A	5.1	15	J
MW-42B	10/21/2019	Sulfate	1470	1	mg/L	SW9056A	10.3	50	J
MW-42B	10/21/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	UJ
MW-42B	10/21/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-42B	10/21/2019	barium_Total	0.0219	1	mg/L	SW6020A	0.00029	0.001	J+
MW-42B	10/21/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-42B	10/21/2019	Boron_Total	0.89	1	mg/L	SW6010C	0.00437	0.1	
MW-42B	10/21/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-42B	10/21/2019	chromium_Total	0.00235	1	mg/L	SW6020A	0.0005	0.002	
MW-42B	10/21/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-42B	10/21/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-42B	10/21/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-42B	10/21/2019	Molybdenum_Total	0.106	1	mg/L	SW6020A	0.00014	0.002	
MW-42B	10/21/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-42B	10/21/2019	Lithium_Total	0.0561	1	mg/L	SW6010C	0.0091	0.02	
MW-42B	10/21/2019	Selenium_Total	0.00998	1	mg/L	SW6020A	0.000373	0.005	
MW-42B	10/21/2019	Ra-226,228, tot	0.478	0	pCi/L	RA226RA228	0.478	0.478	U
MW-42B	10/21/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	10/21/2019	Residue, Filterable (TDS) @180C	1290	1	mg/L	SM2540C	9.4	20	
MW-43B	10/21/2019	Calcium_Total	172	1	mg/L	SW6010C	0.0778	0.2	
MW-43B	10/21/2019	Chloride	67.6	1	mg/L	SW9056A	1.02	3	J
MW-43B	10/21/2019	Sulfate	663	1	mg/L	SW9056A	5.15	25	J
MW-43B	10/21/2019	Lithium_Total	0.0328	1	mg/L	SW6010C	0.0091	0.02	
MW-43B	10/21/2019	Selenium_Total	0.005	0	mg/L	SW6020A	0.000373	0.005	U
MW-43B	10/21/2019	Ra-226,228, tot	0.971	1	pCi/L	RA226RA228	0.501	0.501	
MW-43B	10/21/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	10/21/2019	Residue, Filterable (TDS) @180C	2800	1	mg/L	SM2540C	18.8	40	
MW-41B	10/21/2019	Calcium_Total	333	1	mg/L	SW6010C	0.0778	0.2	
MW-41B	10/21/2019	Chloride	200	1	mg/L	SW9056A	5.1	15	J
MW-41B	10/21/2019	Sulfate	1480	1	mg/L	SW9056A	10.3	50	J
MW-41B	10/21/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	UJ
MW-41B	10/21/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-41B	10/21/2019	barium_Total	0.0273	1	mg/L	SW6020A	0.00029	0.001	J+
MW-41B	10/21/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-41B	10/21/2019	Boron_Total	0.862	1	mg/L	SW6010C	0.00437	0.1	
MW-41B	10/21/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-43B	10/21/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	UJ
MW-43B	10/21/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-43B	10/21/2019	barium_Total	0.044	1	mg/L	SW6020A	0.00029	0.001	J+
MW-43B	10/21/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-43B	10/21/2019	Boron_Total	0.32	1	mg/L	SW6010C	0.00437	0.1	
MW-43B	10/21/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-43B	10/21/2019	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-43B	10/21/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-43B	10/21/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-43B	10/21/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-43B	10/21/2019	Molybdenum_Total	0.0208	1	mg/L	SW6020A	0.00014	0.002	
MW-43B	10/21/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	10/22/2019	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-52B	10/22/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-52B	10/22/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U
MW-52B	10/22/2019	Thallium_Total	0.001	0	mg/L	SW6020A	0.000089	0.001	U
MW-52B	10/22/2019	Molybdenum_Total	0.00418	1	mg/L	SW6020A	0.00014	0.002	
MW-52B	10/22/2019	Antimony_Total	0.002	0	mg/L	SW6020A	0.0004	0.002	U
MW-52B	10/22/2019	Lithium_Total	0.0403	1	mg/L	SW6010C	0.0091	0.02	
MW-52B	10/22/2019	Selenium_Total	0.005	0	mg/L	SW6020A	0.000373	0.005	U
MW-52B	10/22/2019	Ra-226,228, tot	0.775	1	pCi/L	RA226RA228	0.73	0.73	
MW-52B	10/22/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	10/22/2019	Residue, Filterable (TDS) @180C	686	1	mg/L	SM2540C	9.4	20	
MW-53B	10/22/2019	Calcium_Total	102	1	mg/L	SW6010C	0.0778	0.2	
MW-53B	10/22/2019	Chloride	47	1	mg/L	SW9056A	1.02	3	J
MW-53B	10/22/2019	Sulfate	222	1	mg/L	SW9056A	5.15	25	J
MW-53B	10/22/2019	Fluoride	0.919	1	mg/L	SW9056A	0.165	0.5	J
MW-53B	10/22/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-53B	10/22/2019	barium_Total	0.0477	1	mg/L	SW6020A	0.00029	0.001	J+
MW-53B	10/22/2019	Ra-226,228, tot	0.595	0	pCi/L	RA226RA228	0.595	0.595	U
MW-53B	10/22/2019	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-52B	10/22/2019	Residue, Filterable (TDS) @180C	1040	1	mg/L	SM2540C	9.4	20	
MW-52B	10/22/2019	Calcium_Total	174	1	mg/L	SW6010C	0.0778	0.2	
MW-52B	10/22/2019	Chloride	39.3	1	mg/L	SW9056A	1.02	3	J
MW-52B	10/22/2019	Sulfate	471	1	mg/L	SW9056A	5.15	25	J
MW-52B	10/22/2019	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	UJ
MW-52B	10/22/2019	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00033	0.005	U
MW-52B	10/22/2019	barium_Total	0.0752	1	mg/L	SW6020A	0.00029	0.001	J+
MW-52B	10/22/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-52B	10/22/2019	Boron_Total	0.154	1	mg/L	SW6010C	0.00437	0.1	
MW-52B	10/22/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-53B	10/22/2019	Beryllium_Total	0.001	0	mg/L	SW6020A	0.00008	0.001	U
MW-53B	10/22/2019	Boron_Total	0.1	0	mg/L	SW6010C	0.00437	0.1	U
MW-53B	10/22/2019	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000265	0.001	U
MW-53B	10/22/2019	chromium_Total	0.002	0	mg/L	SW6020A	0.0005	0.002	U
MW-53B	10/22/2019	Cobalt_Total	0.001	0	mg/L	SW6020A	0.0000923	0.001	U
MW-53B	10/22/2019	Lead_Total	0.001	0	mg/L	SW6020A	0.00018	0.001	U

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-53B	10/22/2019	Selenium_Total	0.00935	1	mg/L	SW6020A	0.000373	0.005	
MW-32B	6/2/2020	Residue, Filterable (TDS) @180C	1820	1	mg/L	SM2540C	20	20	
MW-32B	6/2/2020	Calcium_Total	203	1	mg/L	SW6010C	0.2	0.2	
MW-32B	6/2/2020	Chloride	85.2	1	mg/L	SW9056A	3	3	
MW-32B	6/2/2020	Sulfate	820	1	mg/L	SW9056A	50	50	
MW-32B	6/2/2020	Fluoride	0.5	0	mg/L	SW9056A	0.5	0.5	U
MW-32B	6/2/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-32B	6/2/2020	barium_Total	0.0351	1	mg/L	SW6020A	0.005	0.005	
MW-32B	6/2/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-32B	6/2/2020	Boron_Total	0.305	1	mg/L	SW6010C	0.1	0.1	
MW-32B	6/2/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-32B	6/2/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-32B	6/2/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-32B	6/2/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-32B	6/2/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-32B	6/2/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.01	0.01	U
MW-32B	6/2/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-32B	6/2/2020	Lithium_Total	0.0734	1	mg/L	SW6020A	0.008	0.008	
MW-32B	6/2/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-32B	6/2/2020	Ra-226,228,tot	0.48	0	pCi/L	RA226RA228	0.48	0.48	U
MW-32B	6/2/2020	Mercury,total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-39B	6/3/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-39B	6/3/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.01	0.01	U
MW-39B	6/3/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-39B	6/3/2020	Lithium_Total	0.0588	1	mg/L	SW6020A	0.008	0.008	
MW-39B	6/3/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-39B	6/3/2020	Ra-226,228,tot	0.552	1	pCi/L	RA226RA228	0.529	0.529	
MW-39B	6/3/2020	Mercury,total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-41B	6/2/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-41B	6/2/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-41B	6/2/2020	Molybdenum_Total	0.14	1	mg/L	SW6020A	0.01	0.01	
MW-41B	6/2/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-41B	6/2/2020	Lithium_Total	0.0541	1	mg/L	SW6020A	0.008	0.008	
MW-41B	6/2/2020	Selenium_Total	0.00562	1	mg/L	SW6020A	0.005	0.005	
MW-41B	6/2/2020	Ra-226,228,tot	0.486	0	pCi/L	RA226RA228	0.486	0.486	U
MW-41B	6/2/2020	Mercury,total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-42B	6/3/2020	Residue, Filterable (TDS) @180C	1940	1	mg/L	SM2540C	20	20	
MW-42B	6/3/2020	Calcium_Total	173	1	mg/L	SW6010C	0.2	0.2	
MW-42B	6/3/2020	Chloride	133	1	mg/L	SW9056A	3	3	
MW-42B	6/3/2020	Sulfate	980	1	mg/L	SW9056A	50	50	
MW-42B	6/3/2020	Fluoride	0.536	1	mg/L	SW9056A	0.5	0.5	
MW-42B	6/3/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-42B	6/3/2020	barium_Total	0.0219	1	mg/L	SW6020A	0.005	0.005	
MW-42B	6/3/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	Boron_Total	0.733	1	mg/L	SW6010C	0.1	0.1	
MW-42B	6/3/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	chromium_Total	0.0022	1	mg/L	SW6020A	0.002	0.002	
MW-42B	6/3/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	Molybdenum_Total	0.0772	1	mg/L	SW6020A	0.01	0.01	
MW-42B	6/3/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-42B	6/3/2020	Lithium_Total	0.0428	1	mg/L	SW6020A	0.008	0.008	
MW-42B	6/3/2020	Selenium_Total	0.0124	1	mg/L	SW6020A	0.005	0.005	
MW-39B	6/3/2020	Residue, Filterable (TDS) @180C	1360	1	mg/L	SM2540C	20	20	
MW-39B	6/3/2020	Calcium_Total	195	1	mg/L	SW6010C	0.2	0.2	
MW-39B	6/3/2020	Chloride	40.7	1	mg/L	SW9056A	3	3	
MW-39B	6/3/2020	Sulfate	537	1	mg/L	SW9056A	25	25	
MW-39B	6/3/2020	Fluoride	0.5	0	mg/L	SW9056A	0.5	0.5	U
MW-39B	6/3/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-39B	6/3/2020	barium_Total	0.0356	1	mg/L	SW6020A	0.005	0.005	
MW-39B	6/3/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-39B	6/3/2020	Boron_Total	0.185	1	mg/L	SW6010C	0.1	0.1	
MW-39B	6/3/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-39B	6/3/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-39B	6/3/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-39B	6/3/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-41B	6/2/2020	Residue, Filterable (TDS) @180C	2590	1	mg/L	SM2540C	40	40	
MW-41B	6/2/2020	Calcium_Total	284	1	mg/L	SW6010C	0.2	0.2	
MW-41B	6/2/2020	Chloride	172	1	mg/L	SW9056A	3	3	
MW-41B	6/2/2020	Sulfate	1300	1	mg/L	SW9056A	50	50	
MW-41B	6/2/2020	Fluoride	0.5	0	mg/L	SW9056A	0.5	0.5	U
MW-41B	6/2/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-41B	6/2/2020	barium_Total	0.0254	1	mg/L	SW6020A	0.005	0.005	
MW-41B	6/2/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-41B	6/2/2020	Boron_Total	0.972	1	mg/L	SW6010C	0.1	0.1	
MW-41B	6/2/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-41B	6/2/2020	chromium_Total	0.00327	1	mg/L	SW6020A	0.002	0.002	
MW-41B	6/2/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-42B	6/3/2020	Ra-226,228,tot	0.475	0	pCi/L	RA226RA228	0.475	0.475	U
MW-42B	6/3/2020	Mercury,total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-43B	6/3/2020	Residue, Filterable (TDS) @180C	1200	1	mg/L	SM2540C	20	20	
MW-43B	6/3/2020	Calcium_Total	149	1	mg/L	SW6010C	0.2	0.2	
MW-43B	6/3/2020	Chloride	52.9	1	mg/L	SW9056A	3	3	
MW-43B	6/3/2020	Sulfate	550	1	mg/L	SW9056A	25	25	
MW-43B	6/3/2020	Fluoride	0.5	0	mg/L	SW9056A	0.5	0.5	U
MW-43B	6/3/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-43B	6/3/2020	barium_Total	0.0371	1	mg/L	SW6020A	0.005	0.005	
MW-43B	6/3/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-43B	6/3/2020	Boron_Total	0.316	1	mg/L	SW6010C	0.1	0.1	
MW-43B	6/3/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-43B	6/3/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-43B	6/3/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-43B	6/3/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-43B	6/3/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-43B	6/3/2020	Molybdenum_Total	0.0192	1	mg/L	SW6020A	0.01	0.01	
MW-43B	6/3/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-43B	6/3/2020	Lithium_Total	0.0353	1	mg/L	SW6020A	0.008	0.008	
MW-43B	6/3/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-43B	6/3/2020	Ra-226,228,tot	0.474	0	pCi/L	RA226RA228	0.474	0.474	U
MW-43B	6/3/2020	Mercury,total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-52B	6/3/2020	Residue, Filterable (TDS) @180C	1890	1	mg/L	SM2540C	20	20	
MW-52B	6/3/2020	Calcium_Total	167	1	mg/L	SW6010C	0.2	0.2	
MW-52B	6/3/2020	Chloride	34.8	1	mg/L	SW9056A	3	3	
MW-52B	6/3/2020	Sulfate	450	1	mg/L	SW9056A	25	25	
MW-52B	6/3/2020	Fluoride	0.5	0	mg/L	SW9056A	0.5	0.5	U
MW-52B	6/3/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-52B	6/3/2020	barium_Total	0.0715	1	mg/L	SW6020A	0.005	0.005	
MW-52B	6/3/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-53B	6/3/2020	Calcium_Total	101	1	mg/L	SW6010C	0.2	0.2	
MW-53B	6/3/2020	Chloride	41.2	1	mg/L	SW9056A	3	3	
MW-53B	6/3/2020	Sulfate	220	1	mg/L	SW9056A	25	25	
MW-53B	6/3/2020	Fluoride	0.939	1	mg/L	SW9056A	0.5	0.5	
MW-53B	6/3/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-53B	6/3/2020	barium_Total	0.0504	1	mg/L	SW6020A	0.005	0.005	
MW-53B	6/3/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-53B	6/3/2020	Boron_Total	0.1	0	mg/L	SW6010C	0.1	0.1	U
MW-53B	6/3/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-53B	6/3/2020	chromium_Total	0.0024	1	mg/L	SW6020A	0.002	0.002	
MW-53B	6/3/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-53B	6/3/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-53B	6/3/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-52B	6/3/2020	Boron_Total	0.149	1	mg/L	SW6010C	0.1	0.1	
MW-52B	6/3/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-52B	6/3/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-52B	6/3/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-52B	6/3/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U
MW-52B	6/3/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.001	0.001	U

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	6/3/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.01	0.01	U
MW-52B	6/3/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-52B	6/3/2020	Lithium_Total	0.0426	1	mg/L	SW6020A	0.008	0.008	
MW-52B	6/3/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.005	0.005	U
MW-52B	6/3/2020	Ra-226,228, tot	0.669	1	pCi/L	RA226RA228	0.507	0.507	
MW-52B	6/3/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-53B	6/3/2020	Residue, Filterable (TDS) @180C	697	1	mg/L	SM2540C	10	10	
MW-53B	6/3/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.01	0.01	U
MW-53B	6/3/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.002	0.002	U
MW-53B	6/3/2020	Lithium_Total	0.0378	1	mg/L	SW6020A	0.008	0.008	
MW-53B	6/3/2020	Selenium_Total	0.00951	1	mg/L	SW6020A	0.005	0.005	
MW-53B	6/3/2020	Ra-226,228, tot	0.505	0	pCi/L	RA226RA228	0.505	0.505	U
MW-53B	6/3/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.0002	0.0002	U
MW-32B	10/7/2020	Residue, Filterable (TDS) @180C	1810	1	mg/L	SM2540C	11.8	25	
MW-32B	10/7/2020	Calcium_Total	191	1	mg/L	SW6010C	0.0778	0.2	
MW-32B	10/7/2020	Chloride	83.8	1	mg/L	SW9056A	1.02	3	
MW-32B	10/7/2020	Sulfate	833	1	mg/L	SW9056A	5.15	25	
MW-32B	10/7/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-32B	10/7/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-32B	10/7/2020	barium_Total	0.0309	1	mg/L	SW6020A	0.00223	0.005	
MW-32B	10/7/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-32B	10/7/2020	Boron_Total	0.306	1	mg/L	SW6010C	0.00437	0.1	
MW-32B	10/7/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-32B	10/7/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.00098	0.002	U
MW-32B	10/7/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-32B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-32B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-32B	10/7/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-32B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-32B	10/7/2020	Lithium_Total	0.0648	1	mg/L	SW6020A	0.00165	0.008	
MW-32B	10/7/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-32B	10/7/2020	Ra-226,228, tot	0.726	1	pCi/L	RA226RA228	0.601	0.601	
MW-32B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	10/7/2020	Sulfate	556	1	mg/L	SW9056A	5.15	25	
MW-39B	10/7/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-39B	10/7/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-39B	10/7/2020	barium_Total	0.0321	1	mg/L	SW6020A	0.00223	0.005	
MW-39B	10/7/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-39B	10/7/2020	Boron_Total	0.192	1	mg/L	SW6010C	0.00437	0.1	
MW-39B	10/7/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-39B	10/7/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.00098	0.002	U
MW-39B	10/7/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-39B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-39B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-39B	10/7/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-41B	10/6/2020	Residue, Filterable (TDS) @180C	2230	1	mg/L	SM2540C	9.4	20	
MW-41B	10/6/2020	Calcium_Total	257	1	mg/L	SW6010C	0.0778	0.2	
MW-41B	10/6/2020	Chloride	155	1	mg/L	SW9056A	1.02	3	
MW-41B	10/6/2020	Sulfate	1160	1	mg/L	SW9056A	20.6	100	
MW-41B	10/6/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-41B	10/6/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-41B	10/6/2020	barium_Total	0.0207	1	mg/L	SW6020A	0.00223	0.005	
MW-42B	10/7/2020	Residue, Filterable (TDS) @180C	2090	1	mg/L	SM2540C	15.7	33.3	
MW-42B	10/7/2020	Calcium_Total	204	1	mg/L	SW6010C	0.0778	0.2	
MW-42B	10/7/2020	Chloride	143	1	mg/L	SW9056A	1.02	3	
MW-42B	10/7/2020	Sulfate	1030	1	mg/L	SW9056A	20.6	100	
MW-42B	10/7/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-42B	10/7/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-42B	10/7/2020	barium_Total	0.0211	1	mg/L	SW6020A	0.00223	0.005	
MW-42B	10/7/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-42B	10/7/2020	Boron_Total	0.767	1	mg/L	SW6010C	0.00437	0.1	
MW-42B	10/7/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-42B	10/7/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.00098	0.002	U
MW-42B	10/7/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-42B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-42B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-42B	10/7/2020	Molybdenum_Total	0.0186	1	mg/L	SW6020A	0.00108	0.01	
MW-42B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-42B	10/7/2020	Lithium_Total	0.0295	1	mg/L	SW6020A	0.00165	0.008	
MW-42B	10/7/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-42B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	10/7/2020	Residue, Filterable (TDS) @180C	1340	1	mg/L	SM2540C	11.8	25	
MW-39B	10/7/2020	Calcium_Total	183	1	mg/L	SW6010C	0.0778	0.2	
MW-39B	10/7/2020	Chloride	40.8	1	mg/L	SW9056A	1.02	3	
MW-39B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-39B	10/7/2020	Lithium_Total	0.0555	1	mg/L	SW6020A	0.00165	0.008	
MW-39B	10/7/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-39B	10/7/2020	Ra-226,228, tot	0.874	1	pCi/L	RA226RA228	0.631	0.631	
MW-39B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	10/6/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-41B	10/6/2020	Boron_Total	1.02	1	mg/L	SW6010C	0.00437	0.1	
MW-41B	10/6/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-41B	10/6/2020	chromium_Total	0.00389	1	mg/L	SW6020A	0.00098	0.002	
MW-41B	10/6/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-41B	10/6/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-41B	10/6/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-41B	10/6/2020	Molybdenum_Total	0.135	1	mg/L	SW6020A	0.00108	0.01	
MW-41B	10/6/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-41B	10/6/2020	Lithium_Total	0.0507	1	mg/L	SW6020A	0.00165	0.008	
MW-41B	10/6/2020	Selenium_Total	0.00608	1	mg/L	SW6020A	0.00089	0.005	
MW-41B	10/6/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-42B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-42B	10/7/2020	Molybdenum_Total	0.0706	1	mg/L	SW6020A	0.00108	0.01	
MW-42B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-42B	10/7/2020	Lithium_Total	0.0437	1	mg/L	SW6020A	0.00165	0.008	
MW-42B	10/7/2020	Selenium_Total	0.0119	1	mg/L	SW6020A	0.00089	0.005	
MW-42B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	10/7/2020	Residue, Filterable (TDS) @180C	1000	1	mg/L	SM2540C	9.4	20	
MW-43B	10/7/2020	Calcium_Total	122	1	mg/L	SW6010C	0.0778	0.2	
MW-43B	10/7/2020	Chloride	31.3	1	mg/L	SW9056A	1.02	3	
MW-43B	10/7/2020	Sulfate	413	1	mg/L	SW9056A	20.6	100	
MW-43B	10/7/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-52B	10/7/2020	Residue, Filterable (TDS) @180C	1140	1	mg/L	SM2540C	9.4	20	
MW-52B	10/7/2020	Calcium_Total	161	1	mg/L	SW6010C	0.0778	0.2	
MW-52B	10/7/2020	Chloride	40.7	1	mg/L	SW9056A	1.02	3	
MW-52B	10/7/2020	Sulfate	923	1	mg/L	SW9056A	5.15	25	
MW-52B	10/7/2020	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-52B	10/7/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-52B	10/7/2020	barium_Total	0.0514	1	mg/L	SW6020A	0.00223	0.005	
MW-52B	10/7/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-52B	10/7/2020	Boron_Total	0.187	1	mg/L	SW6010C	0.00437	0.1	
MW-52B	10/7/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-52B	10/7/2020	chromium_Total	0.002	0	mg/L	SW6020A	0.00098	0.002	U
MW-52B	10/7/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-52B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-52B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-52B	10/7/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-52B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-52B	10/7/2020	Lithium_Total	0.0406	1	mg/L	SW6020A	0.00165	0.008	
MW-52B	10/7/2020	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	10/7/2020	Ra-226,228, tot	0.626	1	pCi/L	RA226RA228	0.569	0.569	
MW-52B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	10/7/2020	Residue, Filterable (TDS) @180C	709	1	mg/L	SM2540C	4.7	10	
MW-53B	10/7/2020	Calcium_Total	102	1	mg/L	SW6010C	0.0778	0.2	
MW-53B	10/7/2020	Chloride	42.1	1	mg/L	SW9056A	1.02	3	
MW-53B	10/7/2020	Sulfate	238	1	mg/L	SW9056A	5.15	25	
MW-53B	10/7/2020	Fluoride	0.958	1	mg/L	SW9056A	0.165	0.5	
MW-53B	10/7/2020	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-53B	10/7/2020	barium_Total	0.0427	1	mg/L	SW6020A	0.00223	0.005	
MW-53B	10/7/2020	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-53B	10/7/2020	Boron_Total	0.117	1	mg/L	SW6010C	0.00437	0.1	
MW-53B	10/7/2020	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-53B	10/7/2020	chromium_Total	0.0027	1	mg/L	SW6020A	0.00098	0.002	
MW-53B	10/7/2020	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-53B	10/7/2020	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-53B	10/7/2020	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-53B	10/7/2020	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-53B	10/7/2020	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-53B	10/7/2020	Lithium_Total	0.0331	1	mg/L	SW6020A	0.00165	0.008	
MW-53B	10/7/2020	Selenium_Total	0.0106	1	mg/L	SW6020A	0.00089	0.005	
MW-53B	10/7/2020	Ra-226,228, tot	0.632	0	pCi/L	RA226RA228	0.632	0.632	U
MW-53B	10/7/2020	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-32B	6/2/2021	Ra-226,228, tot	0.69	1	pCi/L	RA226RA228	0.392	0.392	J
MW-32B	6/2/2021	Residue, Filterable (TDS) @180C	1830	1	mg/L	SM2540C	9.4	20	
MW-32B	6/2/2021	Calcium_Total	201	1	mg/L	SW6010C	0.0778	0.2	
MW-32B	6/2/2021	Chloride	97.1	1	mg/L	SW9056A	1.02	3	
MW-32B	6/2/2021	Sulfate	832	1	mg/L	SW9056A	5.15	25	
MW-32B	6/2/2021	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-32B	6/2/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-32B	6/2/2021	barium_Total	0.0332	1	mg/L	SW6020A	0.00223	0.005	
MW-32B	6/2/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-32B	6/2/2021	Boron_Total	0.313	1	mg/L	SW6010C	0.00437	0.1	
MW-32B	6/2/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-32B	6/2/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-32B	6/2/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-32B	6/2/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-32B	6/2/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-32B	6/2/2021	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-32B	6/2/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-32B	6/2/2021	Lithium_Total	0.0743	1	mg/L	SW6020A	0.00165	0.008	
MW-32B	6/2/2021	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-32B	6/2/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	6/2/2021	Boron_Total	0.189	1	mg/L	SW6010C	0.00437	0.1	
MW-39B	6/2/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-39B	6/2/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-39B	6/2/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-39B	6/2/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-39B	6/2/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-39B	6/2/2021	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-39B	6/2/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-39B	6/2/2021	Lithium_Total	0.0579	1	mg/L	SW6020A	0.00165	0.008	
MW-39B	6/2/2021	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-39B	6/2/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-39B	6/2/2021	Ra-226,228, tot	0.725	1	pCi/L	RA226RA228	0.382	0.382	J
MW-39B	6/2/2021	Residue, Filterable (TDS) @180C	1300	1	mg/L	SM2540C	9.4	20	
MW-39B	6/2/2021	Calcium_Total	202	1	mg/L	SW6010C	0.0778	0.2	
MW-39B	6/2/2021	Chloride	47.8	1	mg/L	SW9056A	1.02	3	
MW-39B	6/2/2021	Sulfate	562	1	mg/L	SW9056A	5.15	25	
MW-39B	6/2/2021	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-39B	6/2/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-39B	6/2/2021	barium_Total	0.0332	1	mg/L	SW6020A	0.00223	0.005	
MW-39B	6/2/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-41B	6/3/2021	Ra-226,228, tot	0.53	1	pCi/L	RA226RA228	0.466	0.466	J
MW-41B	6/3/2021	Residue, Filterable (TDS) @180C	2020	1	mg/L	SM2540C	9.4	20	
MW-41B	6/3/2021	Calcium_Total	244	1	mg/L	SW6010C	0.0778	0.2	
MW-41B	6/3/2021	Chloride	135	1	mg/L	SW9056A	1.02	3	
MW-41B	6/3/2021	Lithium_Total	0.0532	1	mg/L	SW6020A	0.00165	0.008	
MW-41B	6/3/2021	Selenium_Total	0.00652	1	mg/L	SW6020A	0.00089	0.005	
MW-41B	6/3/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-42B	6/3/2021	Ra-226,228, tot	0.393	0	pCi/L	RA226RA228	0.393	0.393	UJ
MW-42B	6/3/2021	Residue, Filterable (TDS) @180C	1770	1	mg/L	SM2540C	9.4	20	
MW-42B	6/3/2021	Calcium_Total	163	1	mg/L	SW6010C	0.0778	0.2	
MW-42B	6/3/2021	Chloride	114	1	mg/L	SW9056A	1.02	3	
MW-42B	6/3/2021	Sulfate	918	1	mg/L	SW9056A	10.3	50	
MW-42B	6/3/2021	Fluoride	0.545	1	mg/L	SW9056A	0.165	0.5	
MW-42B	6/3/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-42B	6/3/2021	barium_Total	0.0189	1	mg/L	SW6020A	0.00223	0.005	
MW-42B	6/3/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-42B	6/3/2021	Boron_Total	0.756	1	mg/L	SW6010C	0.00437	0.1	
MW-42B	6/3/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-42B	6/3/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-42B	6/3/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-42B	6/3/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-42B	6/3/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-42B	6/3/2021	Molybdenum_Total	0.0662	1	mg/L	SW6020A	0.00108	0.01	
MW-42B	6/3/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-42B	6/3/2021	Lithium_Total	0.0431	1	mg/L	SW6020A	0.00165	0.008	
MW-42B	6/3/2021	Selenium_Total	0.0161	1	mg/L	SW6020A	0.00089	0.005	
MW-42B	6/3/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-43B	6/3/2021	Ra-226,228, tot	0.582	0	pCi/L	RA226RA228	0.582	0.582	UJ
MW-43B	6/3/2021	Residue, Filterable (TDS) @180C	811	1	mg/L	SM2540C	4.7	10	
MW-43B	6/3/2021	Calcium_Total	94.4	1	mg/L	SW6010C	0.0778	0.2	
MW-43B	6/3/2021	Chloride	34	1	mg/L	SW9056A	1.02	3	
MW-43B	6/3/2021	Sulfate	343	1	mg/L	SW9056A	5.15	25	
MW-43B	6/3/2021	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-43B	6/3/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-43B	6/3/2021	barium_Total	0.0266	1	mg/L	SW6020A	0.00223	0.005	
MW-43B	6/3/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-43B	6/3/2021	Boron_Total	0.296	1	mg/L	SW6010C	0.00437	0.1	
MW-43B	6/3/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-43B	6/3/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-43B	6/3/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-43B	6/3/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-43B	6/3/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-43B	6/3/2021	Molybdenum_Total	0.018	1	mg/L	SW6020A	0.00108	0.01	
MW-43B	6/3/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-43B	6/3/2021	Lithium_Total	0.0301	1	mg/L	SW6020A	0.00165	0.008	
MW-43B	6/3/2021	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-43B	6/3/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-41B	6/3/2021	Sulfate	1060	1	mg/L	SW9056A	10.3	50	
MW-41B	6/3/2021	Fluoride	0.5	0	mg/L	SW9056A	0.165	0.5	U
MW-41B	6/3/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-41B	6/3/2021	barium_Total	0.02	1	mg/L	SW6020A	0.00223	0.005	
MW-41B	6/3/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-41B	6/3/2021	Boron_Total	0.857	1	mg/L	SW6010C	0.00437	0.1	
MW-41B	6/3/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-41B	6/3/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-41B	6/3/2021	Cobalt_Total	0.00118	1	mg/L	SW6020A	0.00019	0.001	U
MW-41B	6/3/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-41B	6/3/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-41B	6/3/2021	Molybdenum_Total	0.139	1	mg/L	SW6020A	0.00108	0.01	
MW-41B	6/3/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-52B	6/4/2021	Ra-226,228, tot	1.02	1	pCi/L	RA226RA228	1.02	1.02	UJ
MW-52B	6/4/2021	Residue, Filterable (TDS) @180C	1130	1	mg/L	SM2540C	9.4	20	
MW-52B	6/4/2021	Calcium_Total	158	1	mg/L	SW6010C	0.0778	0.2	
MW-52B	6/4/2021	Chloride	47.7	1	mg/L	SW			

WellID	sample_date	Analyte	Result	D_Result	Units	analysis_method	MDL	PQL	Qualifier
MW-52B	6/4/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-52B	6/4/2021	barium_Total	0.0653	1	mg/L	SW6020A	0.00223	0.005	
MW-52B	6/4/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-52B	6/4/2021	Boron_Total	0.174	1	mg/L	SW6010C	0.00437	0.1	
MW-52B	6/4/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-52B	6/4/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-52B	6/4/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-52B	6/4/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-52B	6/4/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-52B	6/4/2021	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-52B	6/4/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-52B	6/4/2021	Lithium_Total	0.0456	1	mg/L	SW6020A	0.00165	0.008	
MW-52B	6/4/2021	Selenium_Total	0.005	0	mg/L	SW6020A	0.00089	0.005	U
MW-52B	6/4/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U
MW-53B	6/4/2021	Ra-226,228, tot	0.767	1	pCi/L	RA226RA228	0.436	0.436	J
MW-53B	6/4/2021	Residue, Filterable (TDS) @180C	698	1	mg/L	SM2540C	4.7	10	
MW-53B	6/4/2021	Calcium_Total	99.7	1	mg/L	SW6010C	0.0778	0.2	
MW-53B	6/4/2021	Chloride	51.1	1	mg/L	SW9056A	1.02	3	
MW-53B	6/4/2021	Sulfate	220	1	mg/L	SW9056A	5.15	25	
MW-53B	6/4/2021	Fluoride	1.02	1	mg/L	SW9056A	0.165	0.5	
MW-53B	6/4/2021	Arsenic_Total	0.005	0	mg/L	SW6020A	0.00075	0.005	U
MW-53B	6/4/2021	barium_Total	0.0427	1	mg/L	SW6020A	0.00223	0.005	
MW-53B	6/4/2021	Beryllium_Total	0.001	0	mg/L	SW6020A	0.000305	0.001	U
MW-53B	6/4/2021	Boron_Total	0.113	1	mg/L	SW6010C	0.00437	0.1	
MW-53B	6/4/2021	Cadmium_Total	0.001	0	mg/L	SW6020A	0.000197	0.001	U
MW-53B	6/4/2021	chromium_Total	0.005	0	mg/L	SW6020A	0.00098	0.005	U
MW-53B	6/4/2021	Cobalt_Total	0.001	0	mg/L	SW6020A	0.00019	0.001	U
MW-53B	6/4/2021	Lead_Total	0.001	0	mg/L	SW6020A	0.00045	0.001	U
MW-53B	6/4/2021	Thallium_Total	0.001	0	mg/L	SW6020A	0.0002	0.001	U
MW-53B	6/4/2021	Molybdenum_Total	0.01	0	mg/L	SW6020A	0.00108	0.01	U
MW-53B	6/4/2021	Antimony_Total	0.002	0	mg/L	SW6020A	0.00057	0.002	U
MW-53B	6/4/2021	Lithium_Total	0.0341	1	mg/L	SW6020A	0.00165	0.008	
MW-53B	6/4/2021	Selenium_Total	0.0103	1	mg/L	SW6020A	0.00089	0.005	
MW-53B	6/4/2021	Mercury, total	0.0002	0	mg/L	SW7470A	0.000027	0.0002	U

