



2021 Annual Groundwater Monitoring and Corrective Action Report

W.A Parish Generating Station, Thompsons, Texas

*Solid Waste Disposal Area (SWMU 001) CCR Multiunit Landfill
Air Preheater Pond (SWMU 021)
FDG Emergency Pond (SWMU 020)*

January 31, 2022

*Prepared For
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2021 Annual Groundwater Monitoring and Corrective Action Report*

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Executive Summary

Pursuant to 40 Code of Federal Regulations (CFR) §257.90(e) and (f) of the Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities, Final Rule (CCR Rule), the owner or operator of an existing coal combustion residuals (CCR) unit must prepare an annual groundwater monitoring and corrective action report (Annual Report) no later than January 31, 2022, addressing the preceding calendar year. The Annual Report shall also provide additional information pursuant to 40 CFR §257.90(e)(6) of the Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities; A Holistic Approach to Closure Part A: Deadline to Initiate Closure.

In addition to the requirements of the Federal CCR Rule, the requirements of the Texas Commission on Environmental Quality's (TCEQ) CCR Permit Program, which became effective on July 28, 2021, also apply to CCR units. The requirements of the TCEQ CCR Permit Program are provided in 30 Texas Administrative Code (30 TAC) Chapter 352, Coal Combustion Residuals Waste Management, and establish that an Annual Report will be prepared in accordance with 30 TAC §352.901 and submitted to TCEQ for review in accordance with 30 TAC §352.902.

TRC Environmental Corporation (TRC) has prepared the *2021 Annual Groundwater Monitoring and Corrective Action Report* (Annual Report) for the Solid Waste Disposal Area (SWDA, SWMU 001) CCR Multiunit Landfill, which includes Landfill Cell 1C, Landfill Cell 2A, Landfill Cell 2B, and Landfill Cell 3; the FGD Emergency Pond (E Pond, SWMU 020); and the Air Preheater Pond (APH Pond, SWMU 021) at the W. A Parish Electric Generating Station (Station) on behalf of NRG Texas Power, LLC (NRG) in accordance with §257.90(e) and (f) of the Federal CCR Rule and 30 TAC §352.901 and 30 TAC §352.902 of TCEQ's CCR Permit Program. This Annual Report also provides the following information:

- Pursuant to §257.90(e)(6), the groundwater monitoring systems for the CCR units operated under detection monitoring at the start and end of 2021; and
- Pursuant to §257.94(e)(2), this Annual Report provides the alternative source demonstrations (ASDs) successfully completed during 2021 and the CCR units remained in detection monitoring during 2021.

In conclusion, this Annual Report contains the information required pursuant to §257.90(e) and (f), §257.90(e)(6), and §257.94(e)(2) of the Federal CCR Rule and 30 TAC §352.901 of the TCEQ CCR Permit Program. This information is provided in this Annual Report. No other information is required to be included in the Annual Report as specified in 30 TAC §352.971 and §352.981 of the TCEQ CCR Permit Program.

Based on the key activities performed during 2021, it is recommended that the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond remain in detection monitoring subject to the following key activities and that the following project timeline be implemented during 2022:

- The CCR unit registration application for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond per the TCEQ CCR Permit Program were submitted to TCEQ during January 2022;
- The *2021 Annual Report* will be prepared and placed into the Station's FOR by January 31, 2022, submitted to the TCEQ within 30 days of placement in the FOR, and posted to the Station's publicly accessible CCR website by March 1, 2022;
- The ASDs for the second half 2022 (October) semi-annual detection monitoring event will be prepared and submitted to the TCEQ during the first quarter 2022;
- The semi-annual groundwater detection monitoring event for the three CCR units will be performed during the first and second halves of 2022 for the Appendix III detection monitoring parameters;
- Groundwater potentiometric surface maps will be prepared for the first and second halves of 2022 semi-annual detection monitoring events;
- The flow rates and directions of groundwater flow will be determined;
- Using the new background groundwater quality data set, statistical analysis and identification of potential SSIs will be performed for the first and second halves of 2022 semi-annual detection monitoring events;
- NRG will notify TCEQ, if required, if potential SSIs are identified and whether ASDs will be prepared for the first and second halves of 2022 semi-annual detection monitoring events; and
- Written ASDs will be prepared and submitted to TCEQ for review, if required, to evaluate potential SSIs above background for the first and second halves of 2022 semi-annual detection monitoring events for the Landfill CCR unit.

Section 1

Introduction

1.1 CCR Program Summary

On April 17, 2015, the United States Environmental Protection Agency (USEPA) published the final rule establishing criteria for the management of Coal Combustion Residuals (CCR) under Subtitle D of the Resource Conservation and Recovery Act (RCRA; the CCR Rule). On August 28, 2020, the USEPA published a final rule (A Holistic Approach to Closure Part A: Deadline to Initiate Closure) that specified certain additional information to be provided in the annual report.

On June 28, 2021, the USEPA published the final approval of the Texas Commission on Environmental Quality's (TCEQ) partial State Coal Combustion Residuals (CCR) Permit Program, which became effective on July 28, 2021. The TCEQ adopted by reference 40 CFR §257.90 as amended through the July 30, 2018 issue of the Federal Register (83 FR 36435), subject to the changes and additions provided in the TCEQ CCR Permit Program. As stated in USEPA's approval of the TCEQ CCR Permit Program on June 28, 2021, the TCEQ CCR Permit Program now operates in lieu of the Federal CCR program. Therefore, during 2021, the Landfill (Unit 004) CCR unit operated pursuant to the requirements of the Federal CCR Rule from January 1 through July 27, 2021, and then pursuant to the requirements of the TCEQ CCR Permit Program for the remainder of the year.

Pursuant to both the Federal CCR Rule and the TCEQ CCR Permit Program, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report (Annual Report) for the CCR units addressing the preceding calendar year. At a minimum, the Annual Report must contain:

- A map, aerial image, or diagram showing the CCR unit(s) and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit(s);
- Narrative description of the Facility and Unit Descriptions and groundwater monitoring system, monitoring well inspection;
- Hydrogeology (groundwater flow rate and direction) with potentiometric surface map;
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- In addition to all the monitoring data, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the

dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs and laboratory reports;

- Statistical analysis and results;
- A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and other information required to be included in the annual report, as specified in 30 TAC §§352.971 and 352.981; and
- Summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, conclusions and recommendations, and project timelines and key activities for the upcoming year.

TRC Environmental Corporation (TRC) has prepared the *2021 Groundwater Monitoring and Corrective Action Report (Annual Report)* for the SWDA CCR Multiunit Landfill, which includes Landfill Cell 1C, Landfill Cell 2A, Landfill Cell 2B, and Landfill Cell 3; the E Pond, and the APH Pond CCR units located at the W.A. Parish Electric Generating Station (Station) on behalf of NRG Texas Power, LLC (NRG) in accordance with §257.90(e) and (f) and §257.94(e)(2) of the Federal CCR Rule, and §257.90(e)(6) of A Holistic Approach to Closure: Part A, and 30 TAC §352.901 and §352.902 of the TCEQ CCR Permit Program.

Pursuant to §257.90(f) of the Federal CCR Rule, NRG will comply with the recordkeeping requirements of §257.105(h), the notification requirements of §257.106(h), and will post the Annual Report to NRG's publicly accessible CCR Web site per §257.107(h). In addition, pursuant to §352.902 of the TCEQ CCR Permit Program, NRG will submit the Annual Report to the TCEQ for review no later than 30 days after the report has been placed into the Station's operating record.

1.2 Corrective Measures and Corrective Action

Finally, since the Landfill (Unit 004) is not currently subject to corrective measures or correct action activities under the Federal CCR Rule or the TCEQ CCR Permit Program, the provisions of 30 TAC §352.971 and §352.981 of the TCEQ CCR Permit Program do not apply. Therefore, per §352.901 of the TCEQ CCR Permit Program, no other information relative to corrective measures or corrective action must be provided in this Annual Report.

1.3 Station Overview

The Station is located in Thompsons, Texas (Figure 1-1). The Station is adjacent to Smithers Lake with the electricity generating portion located on the southeastern shore (location of the E Pond and the APH Pond) and the SWDA CCR Multiunit Landfill located along the northeastern

shore (Figure 1-2). The Station currently uses western United States coal as a fuel source to power the boilers. The spent coal fuels or CCR have been classified by the TCEQ as a Class II Nonhazardous waste and consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. During 2021, the Station had the following three active CCR Units per the Federal CCR Rule and the TCEQ CCR Permit Program:

- SWDA CCR Multiunit Landfill (SWMU 001), which includes Landfill Cell 1C, Landfill Cell 2A, Landfill Cell 2B, and Landfill Cell 3;
- E Pond (SWMU 020); and
- APH Pond (SWMU 021).

All four landfill cells are constructed on native clay soils and are generally constructed with berms having vegetated exterior slopes. The inside slopes and crests of the berms are surfaced with stabilized CCR to control vegetation and to act as an erosion protection layer. CCR management and stormwater control activities performed at the CCR landfill cells are described below:

- Landfill Cell 1C. Landfill Cell 1C receives nonmarketable CCR, which are trucked from the Station. Storm water is directed to the storm water collection pond in the western portion of Cell 1C, where it is then transferred to the Cell 3 stormwater pond on an as-needed basis for discharge from this pond to TPDES Outfall 004.
- Landfill Cell 2A. Landfill Cell 2A is a small active portion of Cell 2, which has been closed. A pugmill operation for mixing and stabilizing CCR for disposal in other cells or for beneficial reuse outside the SWMU 001 Landfill CCR multiunit is located at Cell 2A. Storm water is directed to the southwestern portion of Cell 2A, where it is then transferred to the Cell 3 stormwater pond on an as needed basis for discharge from this pond to TPDES Outfall 004.
- Landfill Cell 2B. Landfill Cell 2B receives marketable CCR, which is trucked from the Station. Storm water is directed to the storm water collection pond in the southern portion of Cell 2B, where it is then transferred to the Cell 3 stormwater pond on an as-needed basis for discharge from this pond to TPDES Outfall 004.
- Landfill Cell 3. Landfill Cell 3 receives bottom ash, which is trucked from the Station. Storm water is directed to the storm water collection pond in the western portion of Cell 3. In accordance with the facility's TPDES permit, water from the Cell 3 stormwater pond is discharged through Outfall 004 to Smithers Lake on an as-needed basis.

A description of both CCR surface impoundments at the Station, including CCR management and stormwater control activities performed are described below:

- FGD Emergency Pond (E Pond, SWMU 020). The E Pond is located in the central portion of the Station as shown on Figure 1-2. The E Pond receives storm water runoff from the FGD dewatering area and also blowdown from the FGD system. This impoundment may also receive the contents of an FGD process vessel when the FGD system is not in operation. Per §257.101(k) of the Federal CCR Rule, CCR was removed from the E Pond and the E Pond was decontaminated. The E Pond was then retrofitted with the installation of a bottom composite liner system.
- Air Preheater Pond (APH Pond, SWMU 021). The APH Pond is located in the southwestern portion of the Station as shown on Figure 1-2. The APH Pond receives effluent from air preheater wash and boiler cleaning wash, which consists of fly ash or economizer ash particles and water. Per §257.101(k) of the Federal CCR Rule and as per the TCEQ CCR Permit Program, CCR was removed from the APH Pond and the APH Pond was decontaminated during 2020. The APH Pond was then retrofitted with the installation of a bottom composite liner system during 2020 and 2021.

Section 2

Groundwater Monitoring Systems and Hydrogeology

2.1 Groundwater Monitoring Systems

The groundwater monitoring systems for the three CCR units at the Station consist of a total of 25 wells installed into the uppermost aquifer, which are described in the subsections below. The locations and well identification numbers for the background (or upgradient) and downgradient groundwater monitoring wells that are part of the groundwater monitoring program are shown on the following figures:

- SWDA CCR Multiunit Landfill, Figure 2-1;
- E Pond, Figure 2-2; and
- APH Pond, Figure 2-3.

2.1.1 SWDA CCR Multiunit Landfill (SWMU 001)

The SWDA CCR Multiunit Landfill (SWMU 001) consists of four landfill cells that are located adjacent to each other and are hydraulically cross-gradient or downgradient of each other. The groundwater monitoring system for the SWDA CCR Multiunit Landfill consists of 14 monitoring wells screened into the uppermost aquifer (see Table 2-1 and Figure 2-1). Six monitoring wells are located hydraulically upgradient of the SWDA CCR Multiunit Landfill and monitor background quality in the uppermost aquifer. The remaining eight wells are located hydraulically downgradient of the SWDA CCR Multiunit Landfill and monitor the quality of groundwater in the uppermost aquifer passing beneath the waste boundary of the SWDA CCR Multiunit Landfill. The downgradient monitoring wells making up the CCR groundwater monitoring system were selected based on the direction of groundwater flow and using a well-spacing consistent with the locations of the upgradient wells. The SWDA CCR Multiunit Landfill wells are provided in Table 2-1 below.

SWDA CCR Multiunit Landfill Monitoring Well Network

UPGRADIENT WELLS	DOWNGRADIENT WELLS
MW-23R, MW-28D, MW-42, MW-43, MW-47, MW-48	MW-44, MW-46R, MW-50, MW-52, MW-54, MW-55R, MW-58, MW-65

No groundwater monitoring wells were installed or decommissioned as part of the CCR groundwater monitoring system for the SWDA CCR Multiunit Landfill during 2021, except for MW-23 which was replaced by MW-23R in the first quarter of 2021, due to grout intrusion into the water bearing unit.

2.1.2 E Pond (SWMU 020)

The groundwater monitoring system for the E Pond (SWMU 020) consists of five monitoring wells (MW-36, MW-37, MW-38R, MW-60, and MW-61) screened into the uppermost aquifer (see Figure 2-2). Monitoring wells MW-36 and MW-60 are located hydraulically upgradient of the E Pond and monitor background quality in the uppermost aquifer. The remaining three wells (MW-37, MW-38R, and MW-61) are located downgradient of the E Pond and monitor the quality of groundwater in the uppermost aquifer passing beneath the waste boundary of the E Pond.

No groundwater monitoring wells were installed or decommissioned as part of the CCR groundwater monitoring system for the E Pond during 2021.

2.1.3 APH Pond (SWMU 021)

The groundwater monitoring system for the APH Pond (SWMU 021) consists of six monitoring wells (MW-39R, MW-40, MW-41, MW-62, MW-63, and MW-64). Monitoring wells MW-39R, MW-40, and MW-62 are located hydraulically upgradient of the APH Pond and monitors background quality in the uppermost aquifer. MW-41, MW-63, and MW-64 are located hydraulically downgradient of the APH Pond and monitor the quality of groundwater in the uppermost aquifer passing beneath the waste boundary of the APH Pond.

During 2018, groundwater potentiometric surface maps historically prepared for the 2015 through 2017 detection monitoring events were reviewed to re-evaluate the apparent directions of groundwater flow in the uppermost aquifer at the APH Pond. Based on this re-evaluation, the groundwater monitoring system for the APH Pond was revised and updated to more adequately reflect the apparent directions of groundwater flow observed since the groundwater monitoring system was originally installed and to more accurately represent the natural range of background groundwater quality. As part of this re-evaluation, MW-39R and MW-40 were re-designated as background upgradient monitoring wells.

No new groundwater monitoring wells were installed or decommissioned as part of the CCR groundwater monitoring system for the APH Pond during 2021. However, during

pond retrofitting, monitoring well MW-39 was damaged and was replaced by MW-39R in the second quarter of 2021.

2.2 Semi-annual and Quarterly Background Detection Monitoring Sampling

Hydrologic Monitoring Inc. (HMI) performed the quarterly background and semi-annual detection monitoring events during the first half of 2021 per §257.93 and §257.94 of the Federal CCR Rule and during the second half of 2021 per §352.941 of the TCEQ CCR Permit Program. HMI performed the monitoring activities under contract to TRC.

A total of four detection monitoring sampling events were performed during 2021. Two quarterly background detection monitoring events were performed during January and April 2021. The April 2021 quarterly background detection monitoring event data were also used for the first half 2021 semi-annual detection monitoring event. The second half 2021 semi-annual detection monitoring event was performed during October 2021 and a verification resampling event was performed during November 2021 to evaluate select parameters.

2.2.1 Monitoring Well Inspection

Prior to sample collection, each well was visually inspected for conditions that could potentially affect the validity of the analytical results. The results of the inspection were documented on a Water Sample Log.

No deficiencies in well construction were noted during the four groundwater monitoring events performed during 2021, except for well MW-39 which was damaged during pond retrofit activities at the APH Pond. The well was replaced with MW-39R in the second quarter of 2021. In addition, MW-23 was replaced due to suspected grout intrusion into the well screen resulting in elevated pH measurements. MW-23 was replaced with MW-23R in the first quarter of 2021.

2.2.2 Quarterly Background Detection Monitoring

Quarterly background groundwater quality detection monitoring samples were collected for all three CCR unit groundwater monitoring systems during January and April 2021. These monitoring events were the final two quarterly background monitoring events that were collected as part of developing a new background groundwater quality data set for the CCR unit (see *2019 Annual Report*). A total of eight quarterly background monitoring events were performed beginning in the third quarter of 2019 through the second quarter of 2021. The quarterly background samples were analyzed for both the Appendix III and Appendix IV Federal CCR Rule parameters. Wells sampled for the quarterly background detection monitoring events are as follows:

CCR UNIT	UPGRADIENT WELLS	DOWNGRADIENT WELLS
SWDA Multiunit	MW-23R, MW-28D, MW-42, MW-43, MW-47, MW-48	MW 44, MW-46R, MW-50, MW-52, MW-54, MW-55R, MW-58, MW-65
E Pond	MW-36R, MW-60	MW-37, MW-38R, MW-61
APH Pond	MW-39R, MW-40, MW-62	MW-41, MW-63, MW-64

2.2.3 Semi-annual Detection Monitoring

The Appendix III field and laboratory analytical data collected during the April 2021 quarterly background detection monitoring event was used for the 2021 semi-annual detection monitoring event described in this *2021 Annual Report*. The October 2021 semi-annual detection monitoring event was the first semi-annual detection monitoring event that used the new background water quality data set to identify potential statistically significant increases (SSIs) for the Appendix III data.

semi-annual

2.2.4 Analytical Laboratory

During 2021, the quarterly and semi-annual detection monitoring groundwater samples were analyzed by ALS Environmental (ALS) located in Houston, Texas, which is a TCEQ certified laboratory (TCEQ ID T104704231-18-22).

2.2.5 Laboratory and Field Analyses

The quarterly background and semi-annual groundwater detection monitoring samples were analyzed for CCR constituents pursuant to §257.94(b) (Appendix III and Appendix IV, Part 257 of the Federal CCR Rule). These Federal CCR Rule constituents were adopted by TCEQ into its CCR Permit Program, effective July 28, 2021. Additionally, field parameters (pH, temperature, specific conductivity, and turbidity) were obtained for all monitoring wells during the four groundwater monitoring events performed during 2021.

Laboratory and field analytical data are provided in Appendices A through C. Both the quarterly background and semi-annual detection monitoring analytical data are summarized in Tables 2-2 and 2-3.

2.3 Laboratory Data Quality Review

Upon receipt of the January, April, and October 2021 groundwater monitoring analytical data from the analytical laboratory and the December 2021 resampling event, the data were evaluated for completeness, overall quality and usability, method-specified sample holding times, precision and accuracy, and potential sample contamination.

TRC concluded that the January, April, October, and December laboratory analytical data, analyzed by ALS, were complete and usable for the purposes of the CCR quarterly background and semi-annual detection monitoring programs. Laboratory data quality review information is provided in Appendix D.

2.4 Groundwater Flow Direction, Gradient, and Rate

Static groundwater elevations were measured for each monitoring well at all three CCR units during the January, April, and October 2021 detection monitoring events prior to sample collection. These measurements are provided in Table 2-1 for the SWDA CCR Multiunit Landfill, E Pond, and APH Pond. Groundwater potentiometric surface maps were developed for the January, April, and October detection monitoring events to evaluate groundwater flow directions. The potentiometric surface maps are provided as the following figures:

- SWDA CCR Multiunit Landfill. Figures 2-4, 2-7, and 2-10;
- APH Pond. Figures 2-5, 2-8, and 2-11; and
- E Pond. Figures 2-6, 2-9, and 2-12.

Groundwater flow direction and gradient information for all three CCR units for the four 2021 detection monitoring sampling events are provided below:

- SWDA CCR Multiunit Landfill. Groundwater is typically encountered at depths ranging from 9.12 (MW-52) to 28.43 (MW-50) feet below the top of casing (btoc) at the SWDA CCR Multiunit Landfill, with the overall direction of groundwater flow beneath and in the vicinity of the CCR unit to the northeast. The average calculated groundwater gradient ranged from 0.0039 ft/ft to 0.0041 ft/ft with an average groundwater flow velocity of 8 ft/yr.
- E Pond. Groundwater is typically encountered at depths ranging from 6.01 (MW-60) to 11.57 (MW-37) feet btoc at the E Pond, with the overall direction of groundwater flow beneath and in the vicinity of the CCR unit to the southwest. The average calculated groundwater gradient ranged from 0.0093 ft/ft to 0.0170 ft/ft with an average groundwater flow velocity of 48 ft/yr.

APH Pond. Groundwater is typically encountered at depths ranging from 6.23 (MW-41) to 11.48 (MW-39R) feet btoc at the APH Pond, with the overall direction of groundwater flow

beneath and in the vicinity of the CCR unit to the south. The average calculated groundwater gradient ranged from 0.0029 ft/ft to 0.0043t/ft with an average groundwater flow velocity of 12 ft/yr.

2.5 Monitoring Wells Installed or Decommissioned

- No groundwater monitoring wells were installed or decommissioned during 2021, except as follows: SWDA CCR Multiunit Landfill. MW-23 was replaced by MW-23R in the first quarter of 2021 due to grout intrusion into the water bearing unit; and
- APH Pond. During pond retrofitting, monitoring well MW-39 was damaged and was replaced by MW-39R in the second quarter of 2021.

Section 3

Status of Groundwater Monitoring and Corrective Action Program

3.1 Semi-annual and Quarterly Background Detection Monitoring Summary

This Annual Report provides the monitoring data for the quarterly background detection monitoring performed during January and April 2021 for the CCR units. The April 2021 sampling event was also used for the 2021 semi-annual detection monitoring event. Semi-annual detection monitoring was performed for all three CCR units during October 2021.

Previous monitoring data were provided in the 2017, 2018, 2019, and 2020 Annual Reports. Based on the data and results of the monitoring activities during 2021, the status of the groundwater monitoring and corrective action program at the Station including key actions completed, problems encountered, and actions to resolve the problems are summarized in the following subsections.

3.2 Key Actions Completed

The following key actions were completed during 2021:

- The 2020 *Annual Groundwater Monitoring and Corrective Action Report* was prepared per §257.90(e) and (f) of the Federal CCR Rule, placed into the facility operating record (FOR) on January 31, 2021, and posted to NRG's publicly accessible CCR website by March 2, 2021;
- The final two quarterly background detection monitoring events for the CCR units were performed during January and April, 2021;
- Two groundwater monitoring wells were replaced as follows:
 - SWDA CCR Multiunit Landfill. MW-23 was replaced by MW-23R in the first quarter of 2021 due to grout intrusion into the water bearing unit
 - APH Pond. During pond retrofitting, monitoring well MW-39 was damaged and was replaced by MW-39R in the second quarter of 2021;
- The quarterly background detection monitoring samples were analyzed for the Appendix III and Appendix IV detection and assessment monitoring constituents as part of the development of a new background groundwater quality data set for the CCR units;

- The second half 2021 semi-annual detection monitoring event for the CCR units was performed during October 2021 and the samples were analyzed for the Appendix III detection monitoring constituents;
- A resampling monitoring event was performed during December 2021 to confirm the detection of potential SSIs;
- To perform the statistical analysis for the second half 2020 (October) and first half 2021 (April) semi-annual detection monitoring events, the Appendix III quarterly background detection monitoring analytical results for those sampling events were compared to the original background groundwater quality data set first developed under the Federal CCR Rule in 2017;
- To perform the statistical analysis for the second half 2021 (October) semi-annual detection monitoring event, the Appendix III analytical results were compared to the new background water quality data set developed using the eight quarterly detection monitoring events performed beginning in the third quarter of 2019 through the second quarter of 2021;
- Groundwater potentiometric surface maps were prepared for the CCR units for the January and April quarterly background detection monitoring events and for the October 2021 semi-annual detection monitoring event;
- The directions and apparent flow rate of groundwater were determined;
- Potential SSIs above background were identified for the CCR units for the second half 2020 (October) and the first half 2021 (April) semi-annual detection monitoring events per the Federal CCR Rule.
- Potential SSIs above background were identified for the CCR units for the second half 2021 semi-annual detection monitoring event per the TCEQ CCR Permit Program.
- Written ASDs were completed during 2021 per the Federal CCR Rule that successfully demonstrated that potential SSIs above background for the second half 2020 (October) and the first half 2021 (April) semi-annual detection monitoring events were due to alternative sources or statistical errors; and
- NRG notified TCEQ in December 2021 pursuant to the TCEQ CCR Permit Program that potential SSIs had been identified for the second half 2021 (October) semi-annual detection monitoring event and that NRG intends to prepare and submit an ASD to TCEQ during the first quarter 2022; and
- Per §257.101(k) of the Federal CCR Rule, retrofit activities were performed and completed for both the APH Pond and the E Pond.

Based on the successful completion of written ASDs, all three CCR units remained in detection monitoring during 2021. No corrective action activities were performed for the CCR units pursuant to the Federal CCR Rule or the TCEQ Permit Program during 2021.

3.3 Problems Encountered and Resolution

During 2021, no problems were encountered for the CCR groundwater monitoring program for the Station and no actions were taken to resolve problems.

Section 4

Statistical Analysis and Results

This Annual Report identifies potential SSIs above background that were determined for groundwater samples collected during the October 2020, April 2021, and October 2021 semi-annual detection monitoring events.

4.1 October 2020 Semi-annual Detection Monitoring Event

Statistical analysis and identification of SSIs for the second half 2020 (October 2020) semi-annual detection monitoring event were completed during April 2021. The statistical analysis was conducted in accordance with the revised Statistical Methods Certification (August 2018) using lower tolerance limits (LTLs) where applicable, and upper tolerance limits (UTLs) per §257.93(f)(3) of the Federal CCR Rule.

4.1.1 SWDA CCR Multiunit Landfill

The results of the statistical analysis for the second half 2020 (October 2020) semi-annual detection monitoring event are summarized in the table below. Three potential SSIs were identified in upgradient monitoring well MW-23. In accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSIs as discussed in Section 5.0.

Table 4-1
SSI - October 2020, Detection Monitoring, SWDA CCR Multiunit Landfill SSI

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
UPGRADIENT MONITORING WELLS						
Calcium	MW-23	N/A	313	10/1/2020	363	mg/L
Chloride	MW-23		992	10/1/2020	1,220	mg/L
Field p	MW-23	6.9	10.6	10/1/2020	11.47	S.U.

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

SU = Standard Units
UTL – Upper Tolerance Limit

N/A = Not Applicable

4.1.2 E Pond

The results of the statistical analysis for the second half 2020 (October 2020) semi-annual detection monitoring event are summarized in the table below. Six potential SSIs were identified in downgradient monitoring wells MW-37, MW-38R, and MW-61. In

accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSIs, which is discussed in Section 5.0.

Table 4-2
SSIs – October 2020, Detection Monitoring, E Pond SSIs

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-37	N/A	0.160	10/1/2020	0.33	mg/L
Boron	MW-38R	N/A	0.160	10/1/2020	0.496	mg/L
Boron	MW-61	N/A	0.160	10/1/2020	1.13	mg/L
TDS	MW-37	N/A	1,958	10/1/2020	2,160	mg/L
TDS	MW-38R	N/A	1,958	10/1/2020	1,960	mg/L
TDS	MW-61	N/A	1,958	10/1/2020	1,960	mg/L

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

TDS = Total Dissolved Solids
UTL – Upper Tolerance Limit

N/A = Not Applicable

4.1.3 APH Pond

The results of the statistical analysis for the second half 2020 (October 2020) semi-annual detection monitoring event are summarized in the table below. One potential SSI was identified in upgradient monitoring well MW-39 and a second potential SSI was identified in downgradient monitoring well MW-63. In accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSIs, which is discussed in Section 5.0.

Table 4-3
SSIs – October 2020, Detection Monitoring, APH Pond SSIs

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Chloride	MW-39	N/A	824	10/1/2020	919	mg/L
Sulfate	MW-63	N/A	449	10/1/2020	457	mg/L

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

N/A = Not Applicable
UTL – Upper Tolerance Limit

4.2 April 2021 Semi-annual Detection Monitoring Event

Statistical analysis and identification of SSIs for the first half 2021 (April 2020) semi-annual detection monitoring event was completed during May 2021. The statistical analysis was conducted in accordance with the revised Statistical Methods Certification (August 2018) using LTLs where applicable, and upper tolerance limits (UTLs) per §257.93(f)(3).

4.2.1 SWDA CCR Multiunit Landfill

The results of the statistical analysis for the April 2021 semi-annual detection monitoring event are summarized in the table below. One potential SSI was identified in downgradient monitoring well MW-55R. In accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSI, which is discussed in Section 5.0.

Table 4-4
SSI - April 2021, Detection Monitoring, SWDA CCR Multiunit Landfill SSI

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
UPGRADIENT MONITORING WELLS						
Field pH	MW-55R	6.9	10.6	4/9/2021	6.73	S.U.

SU = Standard Units
LTL – Lower Tolerance Limit

N/A = Not Applicable
UTL – Upper Tolerance Limit

4.2.2 E Pond

The results of the statistical analysis for the April 2021 semi-annual detection monitoring event are summarized in the table below. Five potential SSIs were identified. One potential SSI was identified in upgradient monitoring well MW-60, and four potential SSIs were identified in downgradient monitoring wells MW-37, MW-38R, and MW-61. In accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSIs, which is discussed in Section 5.0.

Table 4-5
SSIs – April 2021, Detection Monitoring, E Pond SSIs

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-37	N/A	0.160	4/9/2021	0.384	mg/L
Boron	MW-38R	N/A	0.160	4/9/2021	0.398	mg/L
Boron	MW-61	N/A	0.160	4/9/2021	1.19	mg/L
Chloride	MW-60	N/A	359	4/9/2021	376	mg/L
TDS	MW-37	N/A	1.958	4/7/2020	2,080	mg/L

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

N/A = Not Applicable
UTL – Upper Tolerance Limit

4.2.3 APH Pond

The results of the statistical analysis for the April 2021 semi-annual detection monitoring event are summarized in the table below. Three potential SSIs were identified. One

potential SSI was identified in upgradient monitoring well MW-62 and two potential SSIs were identified in downgradient monitoring wells MW-63 and MW-41. In accordance with §257.94(e)(2) of the Federal CCR Rule, an ASD was performed to evaluate the potential SSIs, which is discussed in Section 5.0.

**Table 4-6
SSIs – October 2020, Detection Monitoring, APH Pond SSIs**

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-63	N/A	0.127	4/9/2021	0.130	mg/L
pH	MW-62	6.0	6.9	4/9/2021	7.01	S.U.
pH	MW-41	6.0	6.9	4/9/2021	7.07	S.U.

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

S.U. = standard units
UTL – Upper Tolerance Limit

N/A = Not Applicable

4.3 October 2021 Semi-annual Detection Monitoring Event

Statistical analysis and identification of potential SSIs for the second half 2021 (October 2021) semi-annual detection monitoring event were completed during December 2021. Select wells and analytes were resampled in December 2021 following receipt of the October 2021 sampling data. The statistical analysis was conducted in accordance with the revised Statistical Methods Certification (August 2018) using LTLs where applicable, and upper tolerance limits (UTLs) per §257.93(f)(3) of the Federal CCR Rule and the TCEQ CCR Permit Program.

As discussed previously, the eighth and final quarterly background detection monitoring event was performed during April 2021 as part of the development of a new background groundwater quality data set for the groundwater monitoring program. Statistical analysis and identification of potential SSIs for the October 2021 semi-annual detection monitoring event was performed using the new background water quality data set. Per the TCEQ CCR Permit Program, SSIs were identified in December 2021 for the October 2021 semi-annual detection monitoring event.

4.3.1 SWDA CCR Multiunit Landfill

The results of the statistical analysis for the October 2021 semi-annual detection monitoring event are summarized in the table below. Four potential SSIs were identified. Three potential SSIs were identified in upgradient monitoring well MW-23R and one potential SSI was identified in downgradient well MW-58.

**Table 4-7
SSI – October 2021, Detection Monitoring, SWDA CCR Multiunit Landfill SSI**

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
UPGRADIENT MONITORING WELLS						
Boron	MW-58	N/A	0.65	12/7/2021	0.697	mg/L
Calcium	MW-23R	N/A	418	12/7/2021	436	mg/L
Sulfate	MW-23R	N/A	673	12/7/2021	1,060	mg/L
TDS	MW-23R	N/A	3,720	10/15/2021	3,730	mg/L

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

N/A = Not Applicable
UTL – Upper Tolerance Limit

4.3.2 E Pond

The results of the statistical analysis for the October 2021 semi-annual detection monitoring event are summarized in the table below. Seven potential SSIs were identified. The seven potential SSIs were identified in downgradient monitoring wells MW-37, MW-38R, and MW-61.

**Table 4-8
SSIs – October 2021, Detection Monitoring, E Pond SSIs**

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-37	N/A	0.116	12/7/2021	0.585	mg/L
Boron	MW-38R	N/A	0.116	12/7/2021	0.593	mg/L
Boron	MW-61	N/A	0.116	12/7/2021	1.25	mg/L
Sulfate	MW-37	N/A	474	12/7/2021	882	mg/L
Sulfate	MW-38R	N/A	474	12/7/2021	575	mg/L
Sulfate	MW-61	N/A	474	12/7/2021	743	mg/L
TDS	MW-37	N/A	1,826	12/7/2021	2,160	mg/L

mg/L= milligrams per liter
LTL – Lower Tolerance Limit

N/A = Not Applicable
UTL – Upper Tolerance Limit

4.3.3 APH Pond

The results of the statistical analysis for the October 2021 semi-annual detection monitoring event are summarized in the table below. Four potential SSIs were identified. One potential SSI was identified in upgradient monitoring well MW-40 and

three potential SSIs were identified in downgradient monitoring wells MW-41, MW-63, and ZMW-64.

Table 4-9
SSIs – October 2021, Detection Monitoring, APH Pond SSIs

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Calcium	MW-40	N/A	290	12/7/2021	307	mg/L
Fluoride	MW-41	N/A	0.20	12/7/2021	0.29	mg/L
Fluoride	MW-64	N/A	0.20	12/7/2021	0.24	mg/L
Boron	MW-63	N/A	0.26	12/7/2021	0.424	mg/L

mg/L= milligrams per liter
 LTL – Lower Tolerance Limit

N/A = Not Applicable
 UTL – Upper Tolerance Limit

Section 5

Alternative Source Demonstrations

As described in Section 4.0, potential SSIs above background levels were identified for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond for the second half (October) 2020 and the first half (April) 2021 semi-annual detection monitoring events and ASDs were prepared that successfully documented that alternative sources or historical errors in statistical analysis were responsible for the potential SSIs observed.

Potential SSIs identified for the CCR units for the second half (October) 2021 semi-annual detection monitoring event were identified. Per the TCEQ CCR Permit Program, ASDs will be prepared for the three CCR units during the first quarter of 2022 and will be submitted to the TCEQ for review during the first quarter 2022. In addition, the ASDs will also be discussed and provided in the 2022 Annual Report.

Pursuant to §257.94(e)(2) of the Federal CCR Rule and as adopted in the TCEQ CCR Permit Program, the owner or operator may demonstrate that a source other than the CCR unit caused the SSI(s) over background levels for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. To evaluate the potential SSIs and to determine whether an ASD could be successfully demonstrated, ASDs were completed and certified by a qualified Texas P.E. during 2021 per the Federal CCR Rule as follows:

- In April 2021, ASDs were identified for potential SSIs for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond for the second half (October) 2020 semi-annual detection monitoring sampling event; and
- In October 2021, ASDs were identified for potential SSIs for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond for the first half (April) 2021 semi-annual detection monitoring sampling event.

Pursuant to §257.94(e)(2) of the Federal CCR Rule, ASDs were successfully completed for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond. Therefore, all three CCR units remained in detection monitoring during 2021. A total of six ASDs were completed during 2021 for two semi-annual detection monitoring events, which are discussed in the subsections below. The completed ASDs are provided in Appendix E.

5.1 Summary of ASDs

5.1.1 SWDA CCR Multiunit Landfill

Two ASDs were successfully completed for the SWDA CCR Multiunit Landfill during 2021. The ASDs are summarized for the October 2020 and April 2021 semi-annual detection monitoring sampling events below:

- October 2020. Calcium, chloride, and field pH were identified for upgradient monitoring well MW-23. The ASD was completed in April 2021. Two alternative sources were identified for the potential SSI:
 - 1) The background UTLs were calculated using a short baseline period; and
 - 2) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).
- April 2021. Field pH was identified for downgradient groundwater monitoring well MW-55R. The ASD was completed in October 2021. Two alternative sources were identified for the potential SSI:
 - 1) Background UTLs were calculated using a short baseline period; and
 - 2) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).

As discussed previously, collection of the eighth quarterly background groundwater samples for development of a new background groundwater water quality data set was completed in April 2021. Therefore, since development of a new background water quality data set was still occurring, the existing UTLs were used for statistical evaluation of the hydraulically downgradient groundwater data for the second half 2020 (October 2020) and the first half 2021 (April 2021) semi-annual detection monitoring events.

5.1.2 E Pond

Two ASDs were successfully completed for the E Pond during 2021. The ASDs are summarized for the October 2020 and April 2021 semi-annual detection monitoring sampling events below:

- October 2020. Six potential SSIs were identified in three downgradient monitoring wells, MW-37, MW-38R and MW-61. Boron and TDS were identified as the potential SSIs. Four alternative sources were identified for the potential SSIs:
 - 1) Since the E Pond is located at an area of active Station activities, the presence of CCR and non-CCR materials at the immediate vicinity of the E Pond;
 - 2) The bottom of the E Pond is separated from the upper aquifer system by a confining unit (Stratum PA-1) that hydraulically isolates the bottom of the E

Pond from the upper aquifer system (Stratum PA-2). Available data indicate the upper aquifer system is under confined conditions and the confining unit (Stratum PA-1) acts as a vertical hydraulic barrier between the bottom of the E Pond and the upper aquifers system (Stratum PA-2);_

- 3) Background UTLs were calculated using a short baseline period; and
 - 4) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).
- April 2021. Five potential SSIs were identified, including one potential SSI in an upgradient monitoring well (MW-60) and the remaining five potential SSIs were identified at three downgradient monitoring wells (MW-37, MW-38R and MW-61). Boron, chloride, and TDS were identified as the potential SSIs. four alternative sources were identified for the potential SSIs:
 - 1) Since the E Pond is located at an area of active Station activities, the presence of CCR and non-CCR materials at the immediate vicinity of the E Pond;
 - 2) The bottom of the E Pond is separated from the upper aquifer system by a confining unit (Stratum PA-1) that hydraulically isolates the bottom of the E Pond from the upper aquifer system (Stratum PA-2). Available data indicate the upper aquifer system is under confined conditions and the confining unit (Stratum PA-1) acts as a vertical hydraulic barrier between the bottom of the E Pond and the upper aquifers system (Stratum PA-2);_
 - 3) Background UTLs were calculated using a short baseline period; and
 - 4) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).

As discussed previously, collection of the eighth quarterly background groundwater samples for development of a new background groundwater water quality data set was completed in April 2021. Therefore, since development of a new background water quality data set was still occurring, the existing UTLs were used for statistical evaluation of the hydraulically downgradient groundwater data for the second half 2020 (October 2020) and the first half 2021 (April 2021) semi-annual detection monitoring events.

5.1.3 APH Pond

Two ASDs were successfully completed for the APH Pond during 2021. The ASDs are summarized for the October 2020 and April 2021 semi-annual detection monitoring sampling events below:

- October 2020. Two potential SSIs were identified in one upgradient monitoring well (MW-39) and one downgradient monitoring well (MW-63). Chloride and

sulfate were identified as the potential SSIs. Three alternative sources were identified for the potential SSIs:

- 1) Background UTLs were calculated using a short baseline period; and
 - 2) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).
- April 2021. Three potential SSIs were identified, including one potential SSI in an upgradient monitoring well (MW-62) and the remaining two potential SSIs were identified at two downgradient monitoring wells (MW-63 and MW-41). Boron, and pH were identified as the potential SSIs. Two alternative sources were identified for the potential SSIs:
- 1) Background UTLs were calculated using a short baseline period; and
 - 2) Laboratory data quality issues identified for the historical laboratory analyses (see *2019 Annual Report*).

As discussed previously, because a minimum of eight groundwater monitoring events are specified in the CCR Rule for development of the background groundwater quality data set, collection of the eighth quarterly background groundwater samples is not anticipated to be completed until the second quarter 2021 quarterly background detection monitoring event. Therefore, the existing UTLs will continue to be used for statistical evaluation of the hydraulically downgradient groundwater data for the second half 2020, and the first half 2021 semi-annual detection monitoring events. These Appendix III data will be collected as part of the quarterly background detection monitoring events being performed to develop a new background groundwater quality data set.

5.1.4 Second Half 2021

As discussed previously, statistical analysis and determination of potential SSIs was performed using the new background groundwater quality data set beginning with the October 2021 semi-annual detection monitoring event and continuing forward with the future monitoring events. Per the TCEQ CCR Permit Program, NRG notified the TCEQ in December 2021 that potential SSIs had been determined for the October 2021 semi-annual detection monitoring event and that an ASD will be prepared for the October 2021 semi-annual detection monitoring event, which will be submitted to the TCEQ during the first quarter 2022 for review.

5.2 Detection Monitoring During 2021

As discussed previously, pursuant to §257.94(e)(2) of the Federal CCR Rule, written ASDs were completed and certified by a qualified Texas P.E. during 2021 for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond. The ASDs successfully demonstrated that alternative sources or laboratory data quality issues were responsible for the potential SSIs identified in groundwater for the second half (October 2020) and first half (April 2021) semi-annual detection monitoring events. Therefore, all three CCR units remained in detection monitoring programs at the start and end of 2021.

5.3 Transition Between Monitoring Programs

During 2021, the groundwater monitoring system for all three CCR units remained in detection monitoring. Therefore, there was no transition between detection and assessment monitoring programs for the Landfill CCR unit during 2021.

Section 6

Projected Key Activities and Timelines for 2022

Key activities and project timelines for 2022 will be performed pursuant to TCEQ's CCR Permit Program and are as follows:

- The CCR unit registrations for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond per the TCEQ CCR Permit Program were submitted to TCEQ during January 2022;
- The *2021 Annual Report* will be prepared and placed into the FOR by January 31, 2022, submitted to the TCEQ 30 days after placement in the FOR, and posted to the Station publicly accessible CCR website by March 1, 2022;
- ASDs for the second half 2021 (October) semi-annual detection monitoring event will be prepared and submitted to the TCEQ during the first quarter 2022;
- The semi-annual groundwater detection monitoring event will be performed during the first and second halves of 2022 for the Appendix III detection monitoring parameters;
- Groundwater potentiometric surface maps will be prepared for the first and second halves 2022 semi-annual detection monitoring events;
- The flow rates and directions of groundwater flow will be determined;
- Using the new background groundwater quality data set, statistical analysis and identification of potential SSIs will be performed for the first and second halves of 2022 semi-annual detection monitoring events;
- NRG will notify TCEQ, if required, if potential SSIs were identified and whether ASDs will be prepared for the first and second halves of 2022 semi-annual detection monitoring events; and
- Written ASDs will be prepared and submitted to TCEQ for review, if required, to evaluate potential SSIs above background for the first and second halves of 2022 semi-annual detection monitoring events for the Landfill CCR unit.

Section 7

Conclusions and Recommendations

In conclusion, this Annual Report contains the information required pursuant to §257.90(e) and (f), §257.90(e)(6), and §257.94(e)(2) of the Federal CCR Rule and 30 TAC §352.901 of the TCEQ CCR Permit Program. This information is provided in this Annual Report. No other information is required to be included in the Annual Report as specified in 30 TAC §352.971 and §352.981 of the TCEQ CCR Permit Program.

Based on the key activities performed during 2021, it is recommended that the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond remain in detection monitoring subject to the following key activities and that the following project timeline be implemented during 2022:

- The CCR unit registrations for the SWDA CCR Multiunit Landfill, APH Pond, and the E Pond per the TCEQ CCR Permit Program were submitted to TCEQ during January 2022;
- The *2021 Annual Report* will be prepared and placed into the Station's FOR by January 31, 2022 and posted to the Station's publicly accessible CCR website by March 1, 2022;
- The ASDs for the second half 2022 (October) semi-annual detection monitoring event will be prepared and submitted to the TCEQ during the first quarter 2022;
- The semi-annual groundwater detection monitoring event for the three CCR units will be performed during the first and second halves of 2022 for the Appendix III detection monitoring parameters;
- Groundwater potentiometric surface maps will be prepared for the first and second halves of 2022 semi-annual detection monitoring events;
- The flow rates and directions of groundwater flow will be determined;
- Using the new background groundwater quality data set, statistical analysis and identification of potential SSIs will be performed for the first and second halves of 2022 semi-annual detection monitoring events;
- NRG will notify TCEQ, if required, if potential SSIs are identified and whether ASDs will be prepared for the first and second halves of 2022 semi-annual detection monitoring events; and
- Written ASDs will be prepared and submitted to TCEQ for review, if required, to evaluate potential SSIs above background for the first and second halves of 2022 semi-annual detection monitoring events for the Landfill CCR unit.

Section 8

References

Federal Register, Vol. 80 No. 74, April 17, 2015, 40 CFR Parts 257 and 261, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule.

Federal Register, Vol. 85, No. 168, August 28, 2020, 40 CFR Part 257, Hazardous and Solid Waste Management System; Disposal of CCR from Electric Utilities; A Holistic Approach to Closure Part A: Deadline to Initiate Closure.

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ERM, CCR Statistical Analysis Plan, October 2017, W.A. Parish Electric Generating Station, Thompsons, Texas.

TRC, 2018 Annual Groundwater Monitoring and Corrective Action Report, January 31, 2019, W.A. Parish Electric Generating Station, Secondary E Pond (Unit 003) and Landfill (Unit 004), Thompsons, Texas.

TRC, 2019 Annual Groundwater Monitoring and Corrective Action Report, January 31, 2020, W.A. Parish Electric Generating Station, Secondary E Pond (Unit 003) and Landfill (Unit 004), Thompsons, Texas.

TRC, Alternative Source Demonstration, May 2021, W.A. Parish Electric Generating Station, FGD Emergency Pond (SWMU 020), Thompsons, Texas.

TRC, Alternative Source Demonstration, May 2021, W.A. Parish Electric Generating Station, Air Preheater Pond (SWMU 021), Thompsons, Texas.

TRC, Alternative Source Demonstration, May 2021, W.A. Parish Electric Generating Station, Solid Waste Disposal Area (SWMU 001) CCR Multiunit, Jewett, Texas.

TRC, Alternative Source Demonstration, November 2021, W.A. Parish Electric Generating Station, FGD Emergency Pond (SWMU 020), Thompsons, Texas.

TRC, Alternative Source Demonstration, November 2021, W.A. Parish Electric Generating Station, Air Preheater Pond (SWMU 021), Thompsons, Texas.

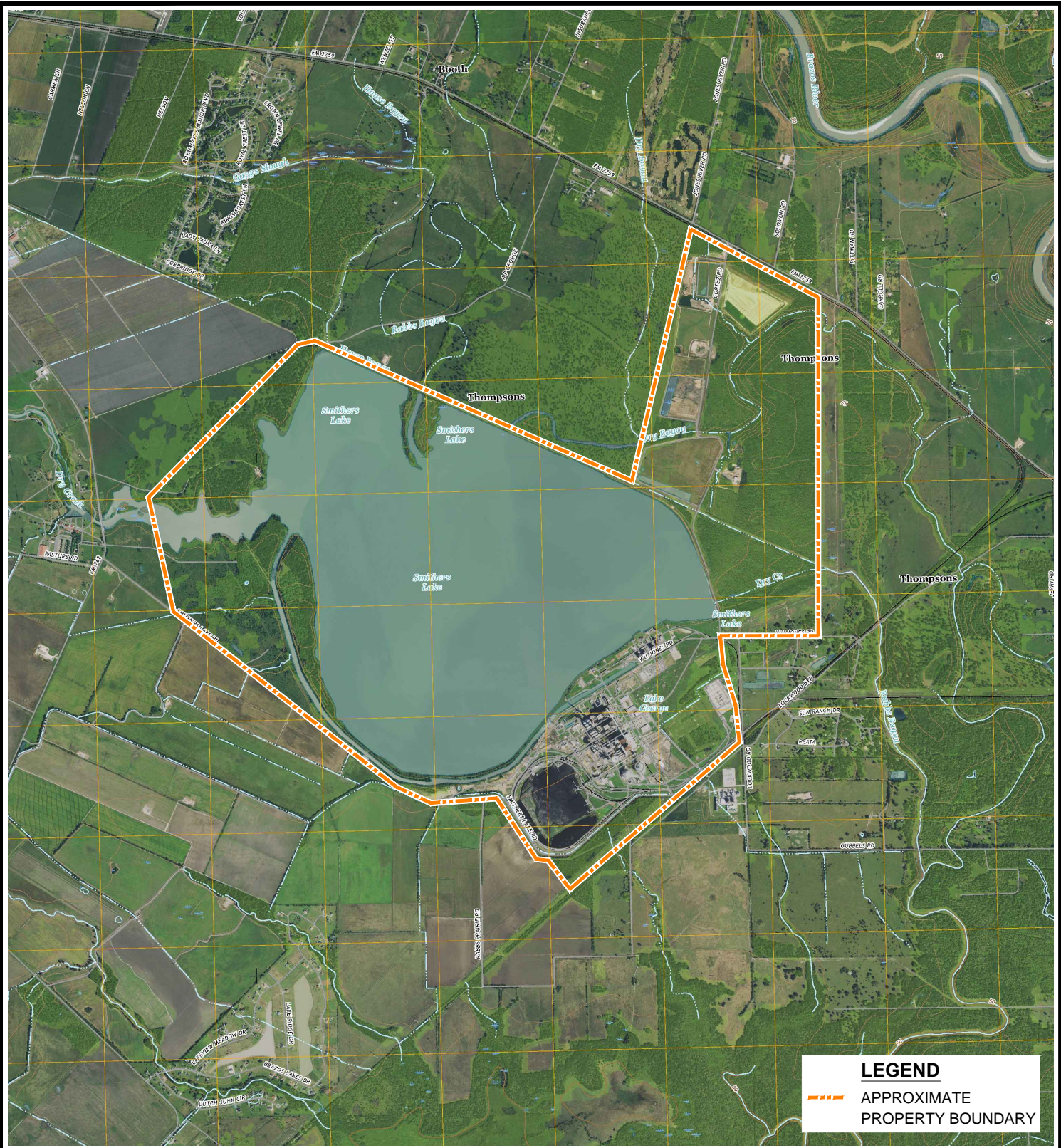
TRC, Alternative Source Demonstration, November 2021, W.A. Parish Electric Generating Station, Solid Waste Disposal Area (SWMU 001), Thompsons, Texas.

TRC, Groundwater Monitoring System Certification, August 2018, W.A. Parish Electric Generating Station, Thompsons, Texas.

TRC, Statistical Methods Certification, August 2018, W.A. Parish Electric Generating Station, Thompsons, Texas.

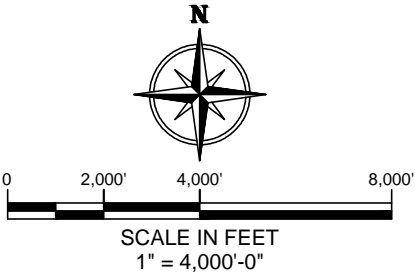
Figures

HOU M:\ACAD-TRC\DRAWING\Clients\Name- K-L-M-N-ONRPG\W.A. Parish Station - Thompons-TX\2019 - CCR-Report\ Fig 1-1 - NRG-WAParishStation - Site Location Map.dwg 01/16/19



LEGEND
 - - - - - APPROXIMATE PROPERTY BOUNDARY

REFERENCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES MISSOURI CITY, TEXAS (2016) / SMITHERS LAKE, TEXAS (2016) / SUGAR LAND, TEXAS (2016) / THOMPSONS, TEXAS (2016)



PROJECT: **NRG TEXAS POWER, LLC**
W.A. Parish Station
Thompsons, Texas

TITLE: **SITE LOCATION MAP**

DRAWN BY:	O. Fonseka	PROJECT No.:	294645.0000.0000
CHECKED BY:	T. Dworaczyk	FIGURE 1-1	
APPROVED BY:	T. Dworaczyk		
DATE:	January 2019		

 10550 Richmond Ave., Suite 210, Houston, TX 77042, Phone: 713.244.1000

FILE: Fig 1-1 - NRG-WAParishStation - Site Location Map.dwg

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE

FGD
EMERGENCY
POND

AIR
PREHEATER
POND

TU JONES RD.

SMITHERS LAKE RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1-2
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

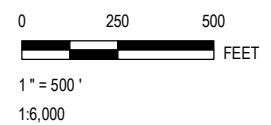
HOU M:\ACAD-TRC\DRAWING\Clients\Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19



LEGEND

- MULTIUNIT DOWNGRAIDENT MONITORING WELL
- MULTIUNIT UPGRADIENT MONITORING WELL

NOTE:
 R = MONITOR WELL REPLACED IN 2019.



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PROJECT:

**NRG TEXAS POWER, LLC
 W.A. PARISH STATION
 THOMPSONS, TEXAS**

TITLE:

**SOLID WASTE DISPOSAL AREA
 GROUNDWATER MONITORING NETWORK**

DRAWN BY:

S.RAY

CHECKED BY:

A. ELJURI

APPROVED BY:

J. SPEER

DATE:

JANUARY 2020

PROJ. NO.:

294645.0000.0000

FILE:

294645_2-1.mxd

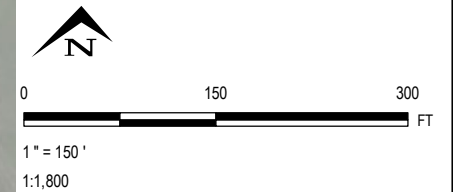
FIGURE 2-1



- Legend**
- MULTIUNIT DOWNGRAIDENT MONITORING WELL
 - MULTIUNIT UPGRADIENT MONITORING WELL

NOTE:
R = MONITOR WELL REPLACED IN 2019.

AERIAL IMAGE SOURCE: GOOGLE EARTH AND THEIR DATA PARTNERS (10/28/2017).



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PROJECT:

**NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**

TITLE:

**FGD EMERGENCY POND
GROUNDWATER MONITORING NETWORK**

DRAWN BY:

S. RAY

CHECKED BY:

A. ELJURI

APPROVED BY:

J. SPEER

DATE:

JANUARY 2020

PROJ. NO.:

294645.0000.0000

FILE:

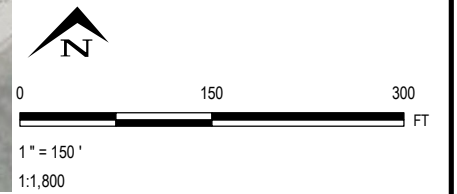
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FIGURE 2-2



- Legend**
- MULTIUNIT DOWNGRAIDENT MONITORING WELL
 - MULTIUNIT UPGRADIENT MONITORING WELL

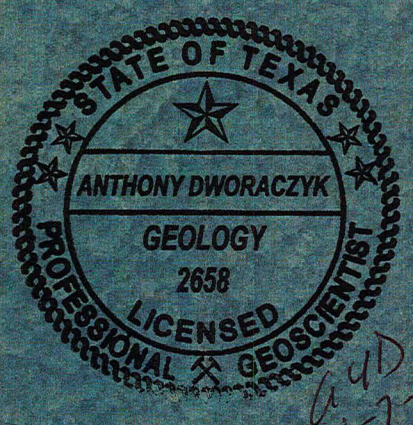
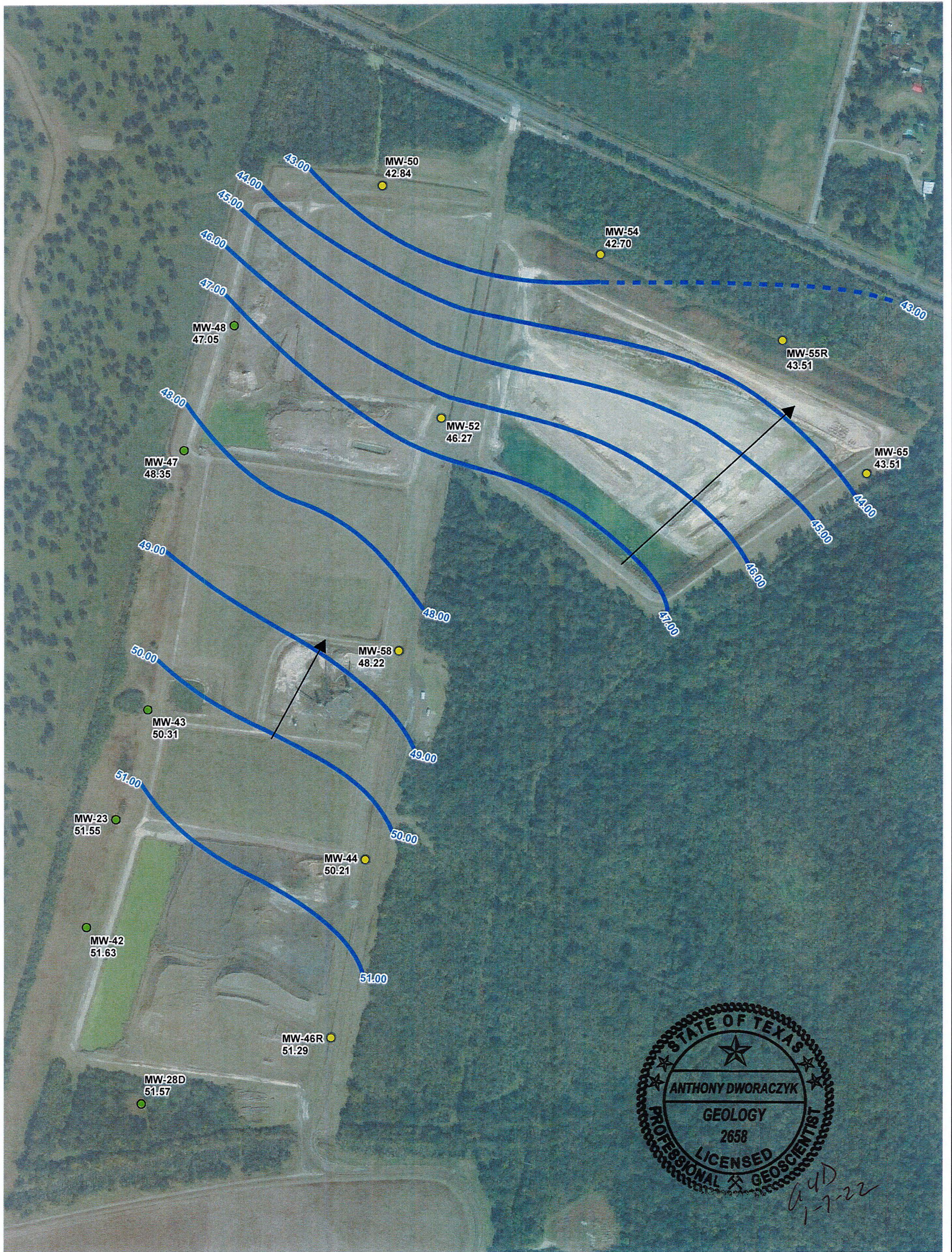
AERIAL IMAGE SOURCE: GOOGLE EARTH AND THEIR DATA PARTNERS (10/28/2017).




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PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	AIR PREHEATER POND GROUNDWATER MONITORING NETWORK

DRAWN BY:	S. RAY
CHECKED BY:	A. ELJURI
APPROVED BY:	J. SPEER
DATE:	JANUARY 2019
PROJ. NO.:	294645.0000.0000
FILE:	294645_2-3.mxd
FIGURE 2-3	



LEGEND

- MULTIUNIT DOWNGRADIENT MONITORING WELL
- MULTIUNIT UPGRADIENT MONITORING WELL
- 51.57 GROUNDWATER ELEVATION (FT MSL)

- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- ← GROUNDWATER FLOW DIRECTION

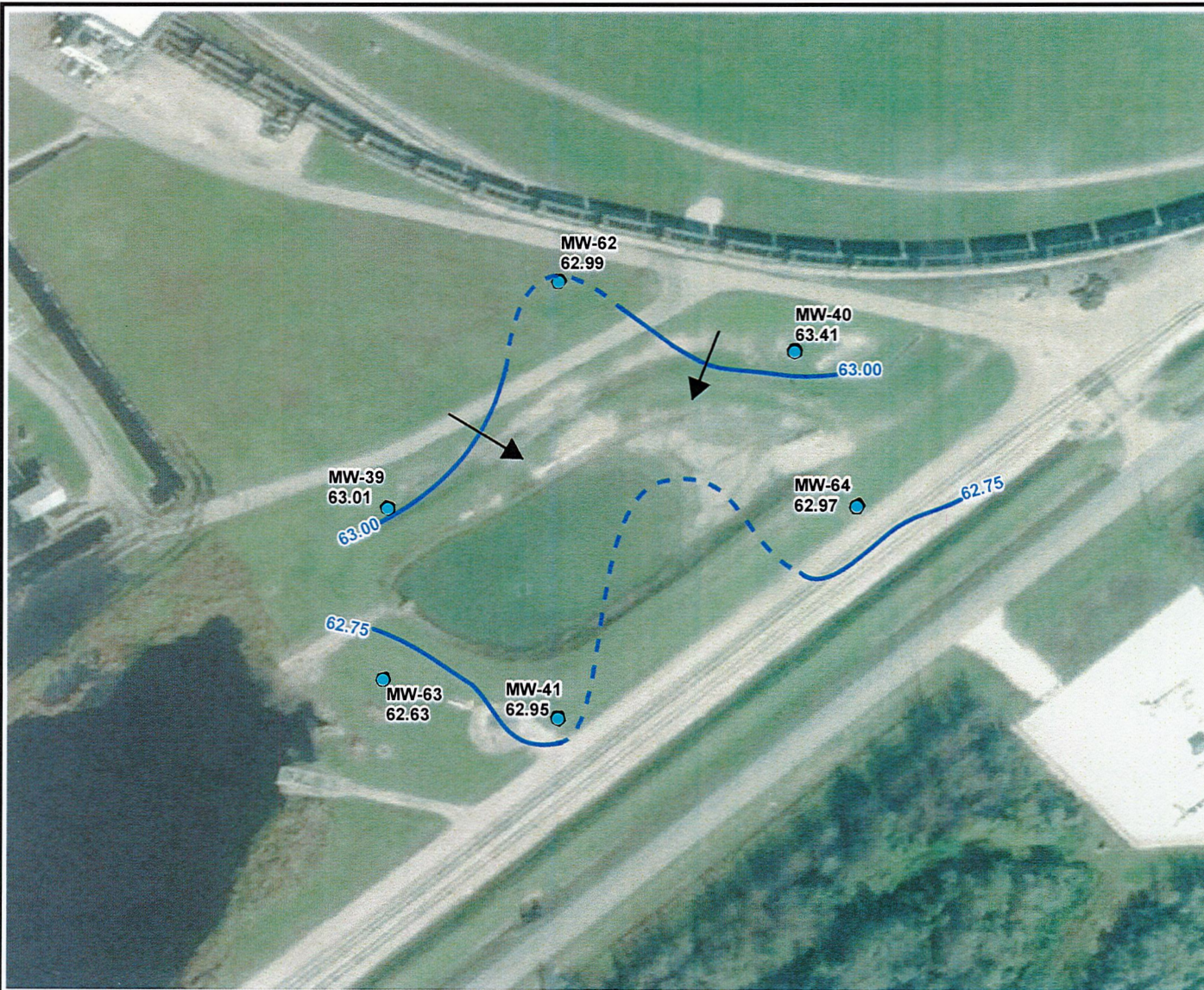
0 250 500 Feet
 1" = 500'
 1:6,000

N

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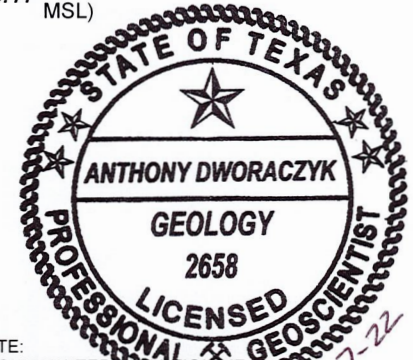
PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	SOLID WASTE DISPOSAL AREA GROUNDWATER POTENTIOMETRIC SURFACE MAP JANUARY 2021

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ NO:	423023.0000.0000
FILE:	423023.0000_2-4.mxd
FIGURE 2-4	



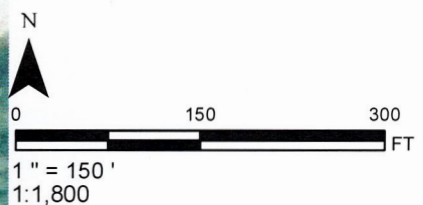
Legend

- MONITORING WELL
- ← GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION
- CONTOUR - DASHED WHERE INFERRED (FT MSL)
- 63.41 GROUNDWATER ELEVATION (FT MSL)



NOTE:
GROUNDWATER ELEVATION MEASURED
BY HMI ON JANUARY 4TH, 2021.
4901-7-22

AERIAL IMAGE SOURCE: GOOGLE EARTH AND THEIR DATA PARTNERS (10/28/2017).



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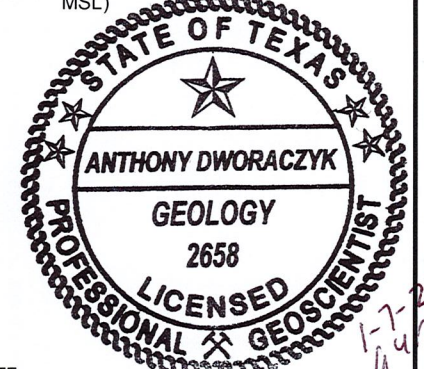
PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	AIR PREHEATER POND GROUNDWATER POTENTIOMETRIC SURFACE MAP JANUARY 2021

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ. NO.:	423023.0000.0000
FILE:	423023.0000_2-5
FIGURE 2-5	



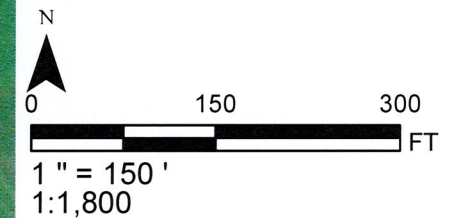
Legend

- MONITORING WELL
- ← GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- 66.75 GROUNDWATER ELEVATION (FT MSL)



NOTE:
GROUNDWATER ELEVATIONS MEASURED
BY TRC ENVIRONMENTAL CORPORATION (TRC)
ON JANUARY 4, 2021.

AERIAL IMAGE SOURCE: GOOGLE EARTH AND
THEIR DATA PARTNERS (10/18/2017).



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PROJECT:

**NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**

TITLE:

**FGD EMERGENCY POND
GROUNDWATER POTENTIOMETRIC SURFACE MAP JANUARY 2021**

DRAWN BY: F. YARBROUGH

CHECKED BY:

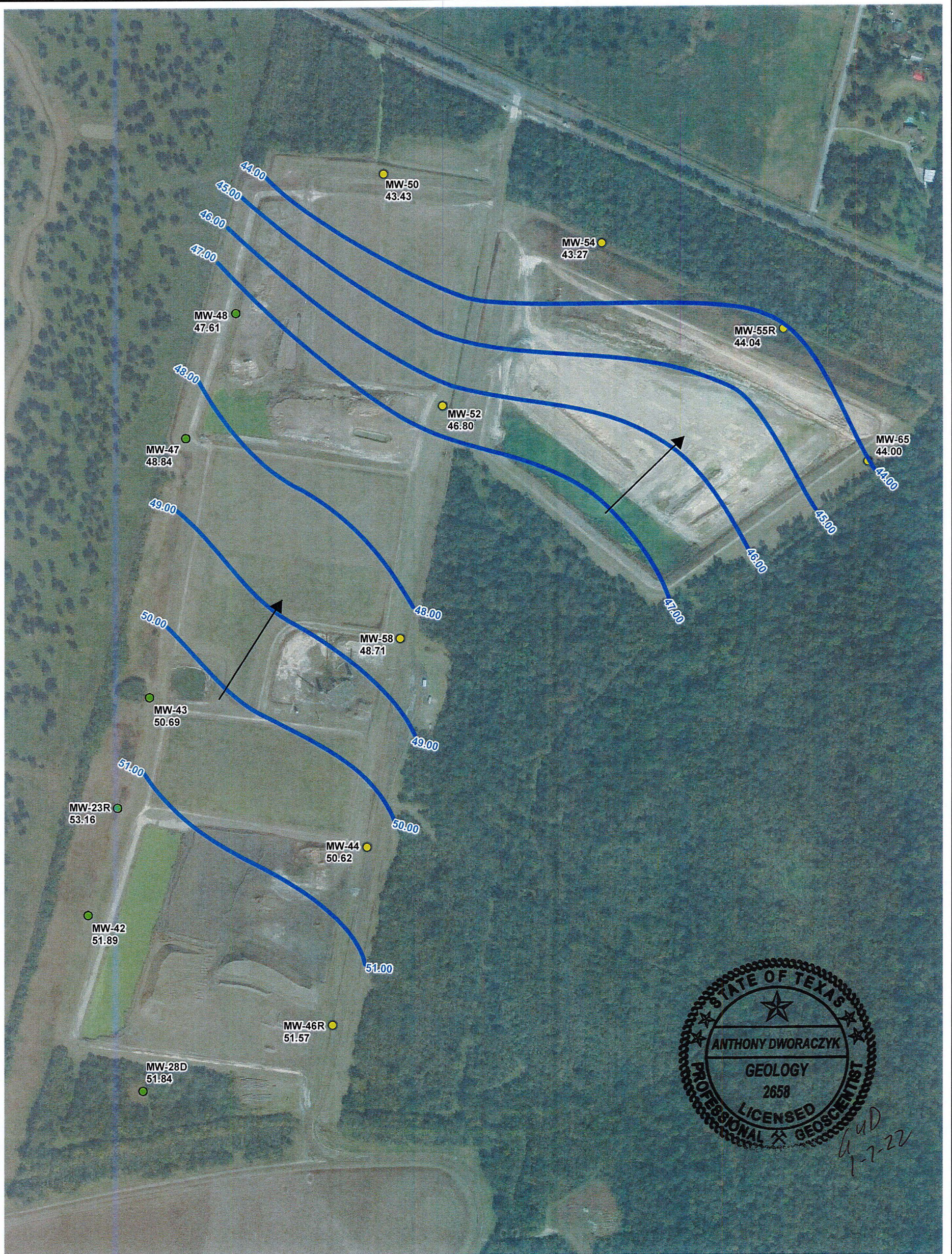
APPROVED BY:

DATE: DECEMBER 2021

PROJ. NO: 423023.0000.0000

FILE: 423023.0000_2-6

FIGURE 2-6



LEGEND

- MULTIUNIT DOWNGRADE MONITORING WELL
- MULTIUNIT UPGRADE MONITORING WELL
- 51.84 GROUNDWATER ELEVATION (FT MSL)

- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- ← GROUNDWATER FLOW DIRECTION

0 250 500 Feet
 1" = 500'
 1:6,000

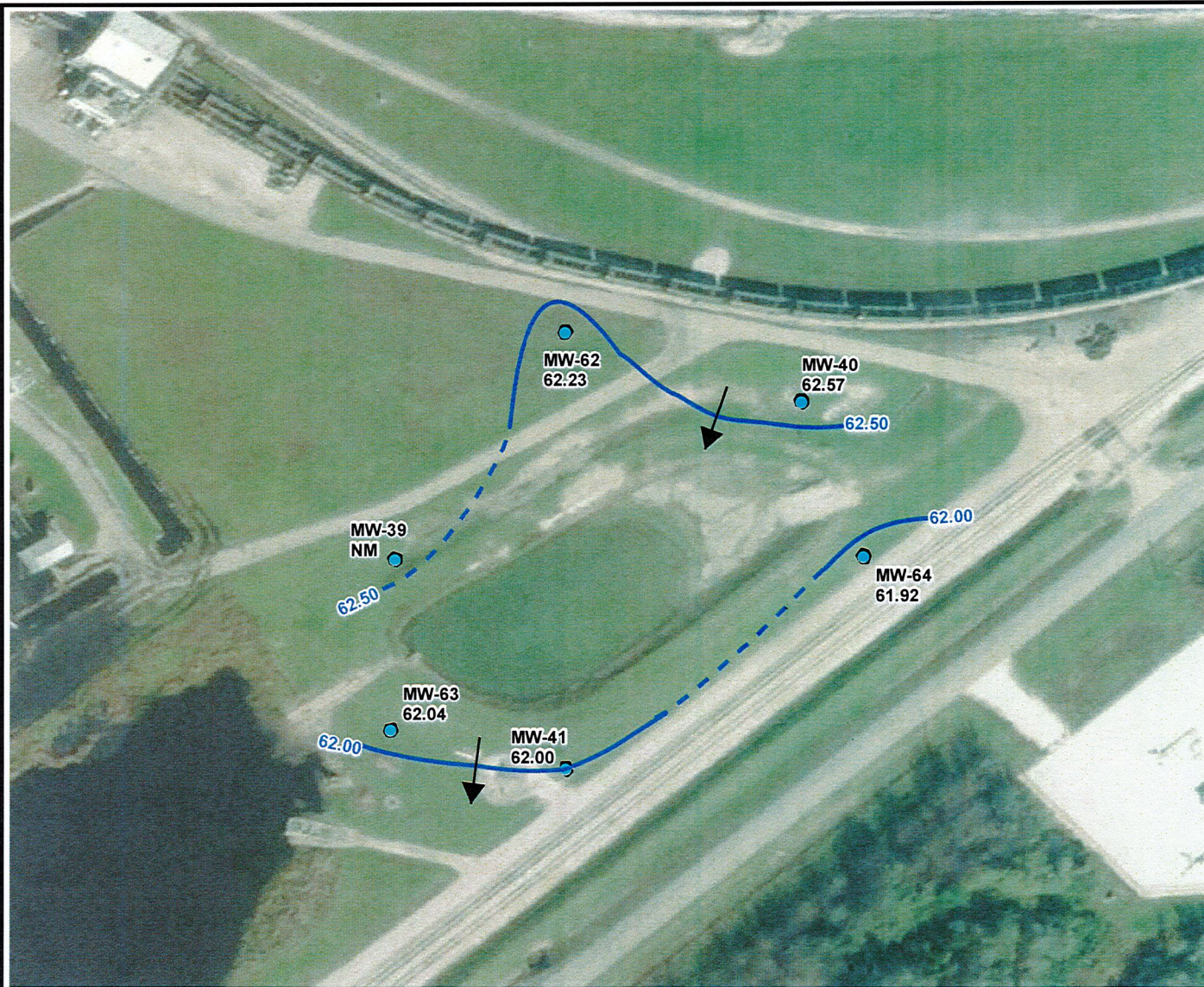
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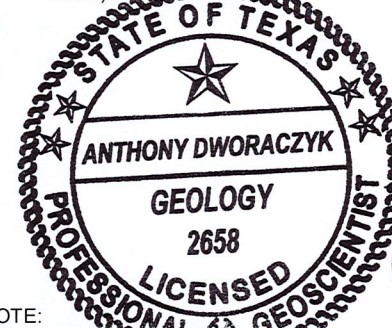
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PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	SOLID WASTE DISPOSAL AREA GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2021

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ NO:	423023.0000.0000
FILE:	423023.0000_2-7.mxd
FIGURE 2-7	

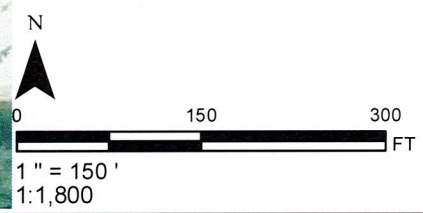


- Legend**
- MONITORING WELL
 - ← GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION
 - CONTOUR - DASHED WHERE INFERRED (FT MSL)
 - 62.57 GROUNDWATER ELEVATION (FT MSL)



NOTE:
GROUNDWATER ELEVATION MEASURED
BY HMI ON APRIL 9TH, 2021.

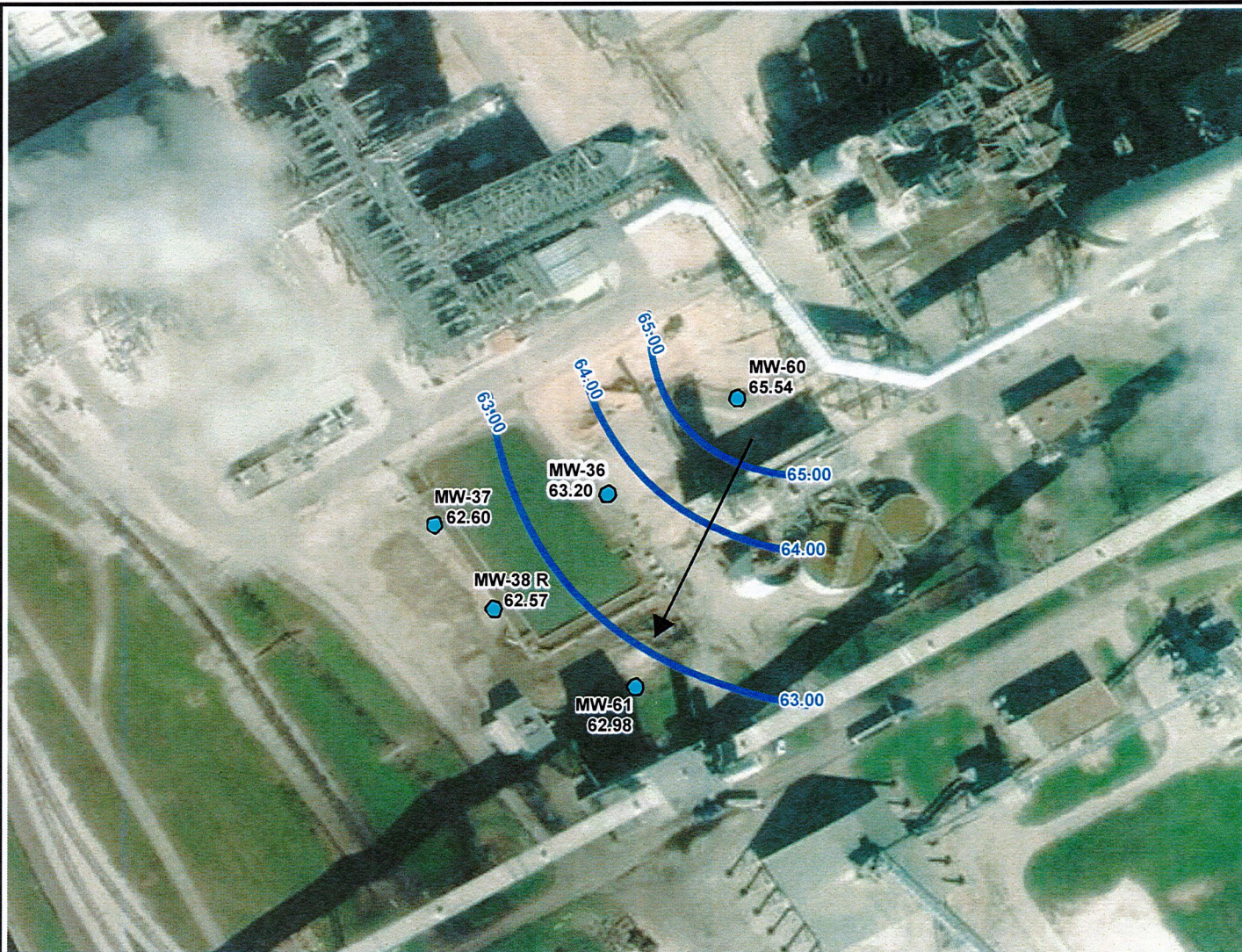
AERIAL IMAGE SOURCE: GOOGLE EARTH AND
THEIR DATA PARTNERS (10/28/2017).



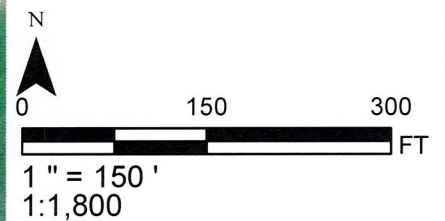
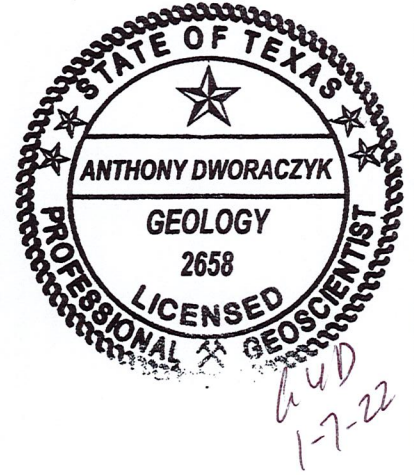
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PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	AIR PREHEATER POND GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2021

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ. NO.:	423023.1000.0000
FILE:	423023.0000_2-8
FIGURE 2-8	



- Legend
- MONITORING WELL
 - ← GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
 - 65.54** GROUNDWATER ELEVATION (FT MSL)



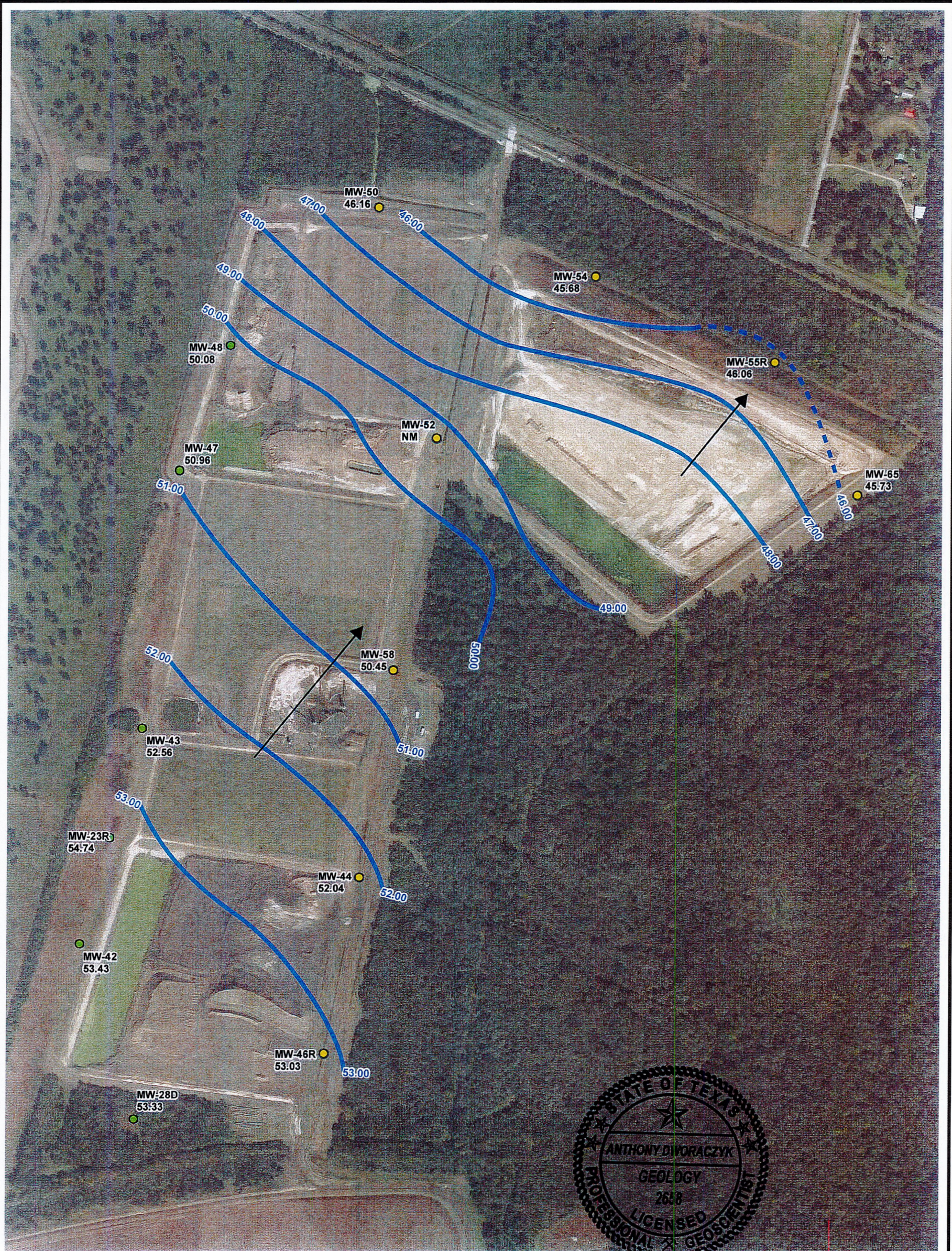

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PROJECT: **NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**

TITLE: **FGD EMERGENCY POND
GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2021**

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APPROVED BY:
DATE: DECEMBER 2021
PROJ. NO: 423023.0000.0000
FILE: 423023.0000_2-9

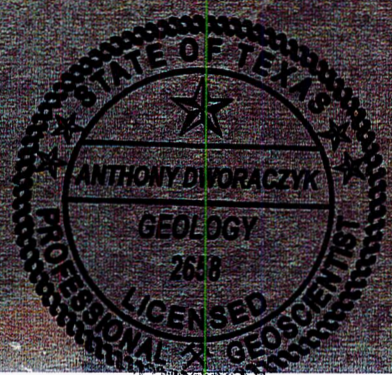
FIGURE 2-9



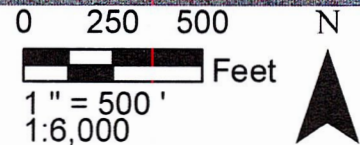
LEGEND

- MULTIUNIT DOWNGRADIENT MONITORING WELL
- MULTIUNIT UPGRADIENT MONITORING WELL
- 53.33 GROUNDWATER ELEVATION (FT MSL)
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- ← GROUNDWATER FLOW DIRECTION

* NOTE: MW-52 not used for potentiometric surface map



1-7-22



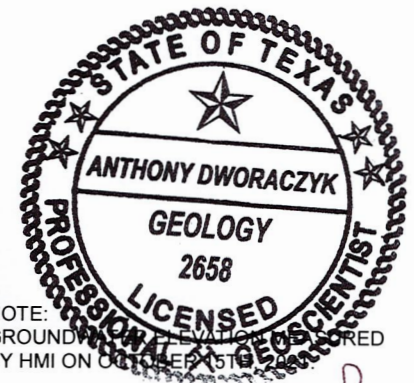
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Houston, TX 77079
713.244.1000
www.trcsolutions.com

PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	SOLID WASTE DISPOSAL AREA GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2021

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ NO:	423023.0000.0000
FILE:	423023.0000_2-10.mxd
FIGURE 2-10	



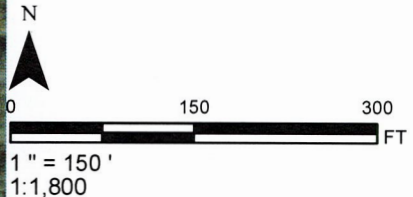
- Legend**
- MONITORING WELL
 - ← GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
 - 62.71 GROUNDWATER ELEVATION (FT MSL)



NOTE: GROUNDWATER ELEVATION INFERRED BY HMI ON OCTOBER 15TH 2021

AUD
1-7-22

AERIAL IMAGE SOURCE: GOOGLE EARTH AND THEIR DATA PARTNERS (10/28/2017).



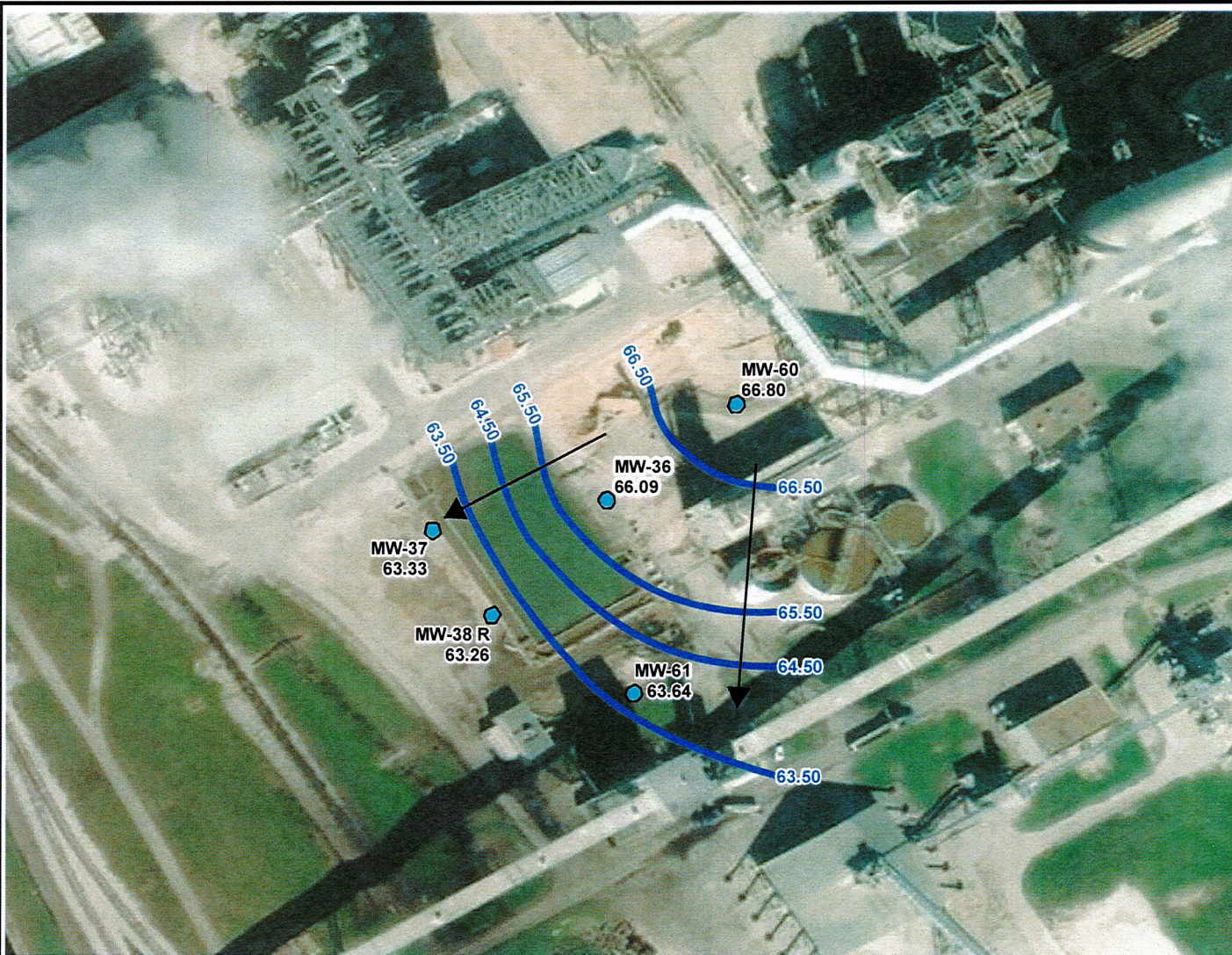
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PROJECT: **NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**




TITLE: **AIR PREHEATER POND
GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2021**

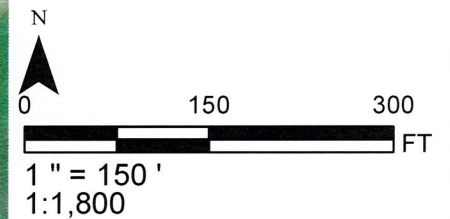
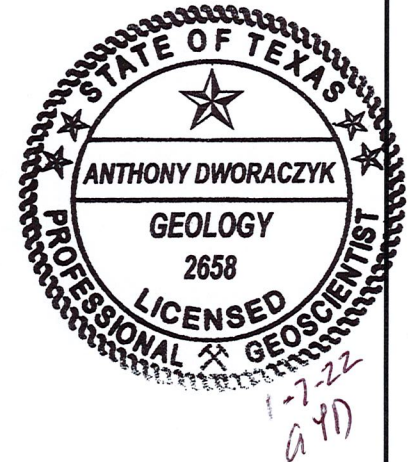
DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	DECEMBER 2021
PROJ. NO.:	294645.2001.0000
FILE:	294645.2001_2-11

FIGURE 2-11



Legend

-  MONITORING WELL
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- 66.80** GROUNDWATER ELEVATION (FT MSL)



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PROJECT: **NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**

TITLE: **FGD EMERGENCY POND
GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2021**

DRAWN BY: F. YARBROUGH
CHECKED BY:
APPROVED BY:
DATE: DECEMBER 2021
PROJ. NO: 423023.0000.0000
FILE: 423023.0000_2-12

FIGURE 2-12

Tables

Table 2-1
Summary of Groundwater Elevation Data
January - December 2021
WA Parish Electric Generating Station - Thompsons, Texas

Well Description	Monitor Well ID	Measurement Date	Top of Casing (ft. MSL)	Depth to Water (ft.)	Ground Water Elevation (ft. MSL)
Air Heater Pond					
Downgradient	MW-41	1/4/2021	69.18	6.23	62.95
	MW-41	4/9/2021	69.18	7.18	62.00
	MW-41	10/15/2021	69.18	6.58	62.60
	MW-63	1/4/2021	70.35	7.72	62.63
	MW-63	4/9/2021	70.35	8.31	62.04
	MW-63	10/15/2021	70.35	7.76	62.59
	MW-64	1/4/2021	70.00	7.03	62.97
	MW-64	4/9/2021	70.00	8.08	61.92
	MW-64	10/15/2021	70.00	7.52	62.48
Upgradient	MW-39	1/4/2021	70.27	7.26	63.01
	MW-39	4/9/2021	70.27	NA	NA
	MW-39R	10/15/2021	73.50	11.48	62.02
	MW-40	1/4/2021	71.67	8.26	63.41
	MW-40	4/9/2021	71.67	9.10	62.57
	MW-40	10/15/2021	73.92	11.21	62.71
	MW-62	1/4/2021	72.59	9.60	62.99
	MW-62	4/9/2021	72.59	10.36	62.23
MW-62	10/15/2021	72.59	9.87	62.72	
CCR - SWDA					
Downgradient	MW-44	1/4/2021	64.42	14.21	50.21
	MW-44	4/9/2021	64.42	13.80	50.62
	MW-44	10/15/2021	64.42	12.38	52.04
	MW-46R	1/4/2021	67.92	16.63	51.29
	MW-46R	4/9/2021	67.92	16.35	51.57
	MW-46R	10/15/2021	67.92	14.89	53.03
	MW-50	1/4/2021	71.27	28.43	42.84
	MW-50	4/9/2021	71.27	27.84	43.43
	MW-50	10/15/2021	71.27	25.11	46.16
	MW-52	1/4/2021	67.91	21.64	46.27
	MW-52	4/9/2021	67.91	21.11	46.80
	MW-52	10/15/2021	67.91	9.12	58.79
	MW-54	1/4/2021	68.29	25.59	42.70
	MW-54	4/9/2021	68.29	25.02	43.27
	MW-54	10/15/2021	68.29	22.61	45.68
	MW-55R	1/4/2021	69.82	26.31	43.51
	MW-55R	4/9/2021	69.82	25.78	44.04
	MW-55R	10/15/2021	69.82	23.76	46.06
	MW-58	1/4/2021	65.40	17.18	48.22
	MW-58	4/9/2021	65.40	16.69	48.71
	MW-58	10/15/2021	65.40	14.95	50.45
	MW-65	1/4/2021	66.65	23.14	43.51
	MW-65	4/9/2021	66.65	22.65	44.00
MW-65	10/15/2021	66.65	20.92	45.73	

Table 2-1
Summary of Groundwater Elevation Data
January - December 2021
WA Parish Electric Generating Station - Thompsons, Texas

Well Description	Monitor Well ID	Measurement Date	Top of Casing (ft. MSL)	Depth to Water (ft.)	Ground Water Elevation (ft. MSL)
CCR - SWDA					
Upgradient	MW-23	1/4/2021	65.47	13.92	51.55
	MW-23R	4/9/2021	67.01	13.85	53.16
	MW-23R	10/15/2021	67.01	12.27	54.74
	MW-28D	1/4/2021	70.37	18.80	51.57
	MW-28D	4/9/2021	70.37	18.53	51.84
	MW-28D	10/15/2021	70.37	17.04	53.33
	MW-42	1/4/2021	65.88	14.25	51.63
	MW-42	4/9/2021	65.88	13.99	51.89
	MW-42	10/15/2021	65.88	12.45	53.43
	MW-43	1/4/2021	66.67	16.36	50.31
	MW-43	4/9/2021	66.67	15.98	50.69
	MW-43	10/15/2021	66.67	14.11	52.56
	MW-47	1/4/2021	70.40	22.05	48.35
	MW-47	4/9/2021	70.40	21.56	48.84
	MW-47	10/15/2021	70.40	19.44	50.96
	MW-48	1/4/2021	65.89	18.84	47.05
MW-48	4/9/2021	65.89	18.28	47.61	
MW-48	10/15/2021	65.89	15.81	50.08	
E Pond					
Downgradient	MW-37	1/4/2021	74.17	10.98	63.19
	MW-37	4/9/2021	74.17	11.57	62.60
	MW-37	10/15/2021	74.17	10.84	63.33
	MW-38R	1/4/2021	73.68	10.59	63.09
	MW-38R	4/9/2021	73.68	11.11	62.57
	MW-38R	10/15/2021	73.68	10.42	63.26
	MW-61	1/4/2021	74.49	11.07	63.42
	MW-61	4/9/2021	74.49	11.51	62.98
	MW-61	10/15/2021	74.49	10.85	63.64
Upgradient	MW-36	1/4/2021	73.81	7.56	66.25
	MW-36	4/9/2021	73.81	10.61	63.20
	MW-36	10/15/2021	73.81	7.72	66.09
	MW-60	1/4/2021	72.90	6.15	66.75
	MW-60	4/9/2021	72.90	7.36	65.54
MW-60	10/15/2021	72.90	6.10	66.80	

Table 2-2
Summary of Groundwater Monitoring Data
January - December 2021
WA Parish Electric Generating Station - Thompsons, Texas

Analyte Group				NRG App III						
Analyte				Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH, Field
Unit				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	su
Well Description	Well ID	Sample Date	Duplicate							
Air Heater Pond										
Upgradient	MW-39	01/04/2021	N	0.225	227	764	0.10	237	1990	6.75
	MW-39R	10/15/2021	N	0.129	216	454	0.17	66.3	1380	6.62
	MW-40	01/04/2021	N	0.133 [J]	269	573	0.11	85.9	1750	6.61
	MW-40	04/09/2021	N	0.0978	240	587	0.12	110	1970	6.63
	MW-40	10/15/2021	N	0.0854	NU	548	0.13	140	1790	6.55
	MW-40	12/07/2021	N	n/a	307	n/a	n/a	n/a	n/a	6.41
	MW-62	01/04/2021	N	0.115 [J]	206	569	0.17	106	1440	6.73
	MW-62	04/09/2021	N	0.0825 [J]	177	649	0.18	96.4	1870	7.01
	MW-62	10/15/2021	N	0.0825	194	586	0.18	121	1600	6.90
Downgradient	MW-41	01/04/2021	N	0.114 [J]	193	441	0.15	59.2	1210	6.90
	MW-41	04/09/2021	N	0.0918 [J]	67.7	60.2	0.32	61.0	484	7.07
	MW-41	10/15/2021	N	0.188	94.7	71.3	NU	47.9	486	6.83
	MW-41	12/07/2021	N	n/a	n/a	n/a	0.29	n/a	n/a	6.78
	MW-63	01/04/2021	N	0.121	304	397	0.11	487	1590	6.56
	MW-63	04/09/2021	N	0.130	303	409	0.13	449	1740	6.57
	MW-63	10/15/2021	N	NU	254	344	NU	NU	1710	6.57
	MW-63	12/07/2021	N	0.424	n/a	n/a	0.15	425	n/a	6.44
	MW-64	01/04/2021	N	0.130 [J]	234	590	0.18	44.0	1610	6.64
	MW-64	04/09/2021	N	0.0998	195	550	0.23	46.7	1870	6.76
	MW-64	10/15/2021	N	0.101	227	495	NU	44.9	1560	6.63
		MW-64	12/07/2021	N	n/a	n/a	n/a	0.24	n/a	n/a
Solid Waste Disposal Area										
Upgradient	MW-23	01/04/2021	N	0.207 [J]	325	1050	< 0.10 U	395	2470	11.76
	MW-23R	04/09/2021	N	0.226	285	754	0.39	673	2530	6.89
	MW-23R	10/15/2021	N	0.230	NU	NU	0.32	NU	3730	7.01
	MW-23R	12/07/2021	N	n/a	436	947	n/a	1060	n/a	6.90
	MW-28D	01/04/2021	N	0.208 [J]	127	133	0.35	95.5	738	7.13
	MW-28D	04/09/2021	N	0.168	109	156	0.34	115	826	7.02
	MW-28D	10/15/2021	N	0.145	115	181	0.30	100	818	6.85
	MW-42	01/04/2021	N	0.573	173	334	0.60	519	1680	7.44
	MW-42	04/09/2021	N	0.511	151	354	0.58	550	1820	7.04
	MW-42	10/15/2021	N	0.450	140	321	0.58	506	1610	7.32
	MW-43	01/04/2021	N	0.349	89.0	242	0.61	70.2	790	8.26
	MW-43	04/09/2021	N	0.410	87.5	256	0.57	78.6	898	7.55
	MW-43	10/15/2021	N	0.364	85.5	223	0.57	69.4	802	7.47
	MW-47	01/04/2021	N	0.324	127	351	0.45	88.9	1060	7.32
	MW-47	04/09/2021	N	0.295	102	334	0.42	81.7	1080	7.38
	MW-47	10/15/2021	N	0.229	111	291	0.39	72.7	968	7.15
	MW-48	01/04/2021	N	0.540	79.1	371	0.73	88.0	1080	7.35
	MW-48	04/09/2021	N	0.573	69.1	393	0.70	96.8	1280	7.40
	MW-48	10/15/2021	N	0.551	71.1	388	0.71	91.0	1200	7.21
Downgradient	MW-44	01/04/2021	FD	0.293	152	351	0.44	244	1320	n/a
	MW-44	01/04/2021	N	0.274	144	346	0.44	239	1270	7.02
	MW-44	04/09/2021	N	0.249	133	336	0.43	228	1390	7.02
	MW-44	04/09/2021	FD	0.239	123	341	0.42	232	1290	n/a
	MW-44	10/15/2021	N	0.227	124	288	0.42	198	1120	7.17
	MW-44	10/15/2021	FD	0.209	120	298	0.41	204	1150	n/a
	MW-46R	01/04/2021	N	0.170	116	163	0.40	90.5	698	7.07
	MW-46R	04/09/2021	N	0.184	106	173	0.37	100	816	6.94
	MW-46R	10/15/2021	N	0.148	101	158	0.36	87.5	766	6.89
	MW-50	01/04/2021	N	0.274	138	355	0.48	103	980	7.36
	MW-50	04/09/2021	N	0.266	118	416	0.45	128	1310	7.28
	MW-50	10/15/2021	N	0.266	129	346	0.44	98.9	1170	7.10
	MW-52	01/04/2021	N	0.332	251	757	0.53	500	2270	6.91
	MW-52	04/09/2021	N	0.351	248	782	0.51	518	2570	6.93
	MW-52	10/15/2021	N	0.356	276	607	0.52	390	2010	7.02
	MW-54	01/04/2021	N	0.244	91.9	249	0.52	71.8	690	6.93
	MW-54	04/09/2021	N	0.286	90.5	267	0.49	78.8	838	6.98
		MW-54	10/15/2021	N	0.267	92.1	240	0.50	72.8	868

Table 2-2
Summary of Groundwater Monitoring Data
January - December 2021
WA Parish Electric Generating Station - Thompsons, Texas

Analyte Group				NRG App III						
Analyte				Boron	Calcium	Chloride	Fluoride	Sulfate	Total Dissolved Solids	pH, Field
Unit				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	su
Well Description	Well ID	Sample Date	Duplicate							
Solid Waste Disposal Area										
Downgradient	MW-55R	01/04/2021	N	0.418	118	320	0.74	106	1050	7.20
	MW-55R	04/09/2021	N	0.487	106	351	0.75	118	1260	6.73
	MW-55R	10/15/2021	N	0.459	112	312	0.72	96.1	1060	7.11
	MW-58	01/04/2021	N	0.245	145	412	0.44	130	1200	7.14
	MW-58	04/09/2021	N	0.296	145	408	0.43	153	1410	6.97
	MW-58	10/15/2021	N	NU	228	289	0.32	NU	1770	7.27
	MW-58	12/07/2021	N	0.697	n/a	n/a	n/a	165	n/a	7.18
	MW-65	01/04/2021	N	0.266	178	173	0.42	534	1280	7.22
	MW-65	04/09/2021	N	0.363	200	259	0.38	691	2050	6.91
MW-65	10/15/2021	N	0.347	157	271	0.33	650	1810	7.02	
FGD Emergency Pond										
Upgradient	MW-36	01/04/2021	N	0.0765 [J]	226	339	0.43	448	1360	6.58
	MW-36	01/04/2021	FD	0.0928 [J]	222	343	0.42	457	1460	n/a
	MW-36	04/09/2021	N	n/a	n/a	n/a	n/a	n/a	n/a	6.81
	MW-36	04/09/2021	N	0.0727 [J]	147 [J]	356	0.40	474	1730	n/a
	MW-36	04/09/2021	FD	0.0625 [J]	217 [J]	355	0.38	460	1650	n/a
	MW-36	10/15/2021	N	0.0649	162	378	0.39	NU	1480	6.72
	MW-36	10/15/2021	FD	0.0784	164	322	0.39	412	1420	n/a
	MW-36	12/07/2021	N	n/a	n/a	n/a	n/a	369	n/a	6.95
	MW-60	01/04/2021	N	0.0979 [J]	210	358	0.18	179	1290	6.52
	MW-60	04/09/2021	N	0.0945	140	376	0.16	200	1450	6.65
	MW-60	10/15/2021	N	0.0868	113	310	0.13	218	1300	6.90
Downgradient	MW-37	01/04/2021	N	0.312	247	266	0.27	910	1990	6.77
	MW-37	04/09/2021	N	0.384	251	269	0.26	936	2080	6.65
	MW-37	10/15/2021	N	NU	195	253	0.24	NU	NU	6.78
	MW-37	12/07/2021	N	0.585	n/a	n/a	n/a	882	2160	6.85
	MW-38R	01/04/2021	N	0.388	245	272	0.26	680	1690	6.85
	MW-38R	04/09/2021	N	0.398	225	259	0.25	799	1870	6.61
	MW-38R	10/15/2021	N	NU	142	324	0.22	NU	1680	6.81
	MW-38R	12/07/2021	N	0.593	n/a	n/a	n/a	575	n/a	6.89
	MW-61	01/04/2021	N	1.15	222	128	0.32	935	1820	6.85
	MW-61	04/09/2021	N	1.19	192	133	0.30	938	1860	6.83
	MW-61	10/15/2021	N	NU	146	248	0.29	NU	1660	6.83
MW-61	12/07/2021	N	1.25	n/a	n/a	n/a	743	n/a	7.04	

Notes

- N Normal sample
- FD Field Duplicate
- J Concentration is an estimated value. Result is less than the method quantitation limit but \geq to the method detection limit.
- U Analyte was not detected at or above the method detection limit.
- n/a Not analyzed
- NU Resampled for analyte. Data not used. See December 2021 resampling result.

**Table 2-3
Summary of Groundwater Monitoring Data
January - December 2021
WA Parish Electric Generating Station - Thompsons, Texas**

Analyte Group				NRG App IV																
Analyte				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Molybdenum	Selenium	Thallium	Mercury	Fluoride	Radium-226	Radium-228	Radium-226/228
Unit				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pci/L	pci/L	pci/L
Well Description	Well ID	Sample Date	Duplicate																	
FGD Emergency Pond																				
Upgradient	MW-36	01/04/2021	N	< 0.000400	0.000458 J	0.0314	< 0.000200	< 0.000200	< 0.000400	0.000657 J	< 0.000600	0.0361	0.000768 J[U]	< 0.00110	< 0.000200	0.000463	0.43	< 0.41 U	< 0.91 U	< 0.91 U
	MW-36	01/04/2021	FD	< 0.000400	0.000584 J	0.0352	< 0.000200	< 0.000200	< 0.000400	0.000580 J	< 0.000600	0.0351	0.000663 J[U]	< 0.00110	< 0.000200	0.000712	0.42	< 0.31 U	1.18	1.18
	MW-36	04/09/2021	N	< 0.000400	0.000588 J	0.0345	< 0.000200	< 0.000200	0.00320 J	< 0.000200	< 0.000600	0.0375	< 0.000600	< 0.00110	< 0.000200	0.00197	0.40	< 0.34 U	< 0.74 U	< 0.74 U
	MW-36	04/09/2021	FD	< 0.000400	0.000437 J	0.0344	< 0.000200	< 0.000200	0.00176 J	< 0.000200	< 0.000600	0.0373	0.000676 J	< 0.00110	< 0.000200	0.00173	0.38	< 0.27 U	< 0.75 U	< 0.75 U
	MW-60	01/04/2021	N	< 0.000400	< 0.000400	0.0772	< 0.000200	< 0.000200	< 0.000400	0.000262 J	< 0.000600	0.0263	0.000797 J[U]	< 0.00110	< 0.000200	0.000120 J	0.18	< 0.27 U	1.16	1.16
Downgradient	MW-60	04/09/2021	N	< 0.000400	< 0.000400	0.0585	< 0.000200	< 0.000200	< 0.000400	< 0.000200	< 0.000600	0.0258	0.000876 J	< 0.00110	< 0.000200	0.0000930 J	0.16	< 0.41 U	0.88	0.88
	MW-37	01/04/2021	N	< 0.000400	0.000704 J	0.0163	< 0.000200	< 0.000200	0.00129 J	0.000325 J	< 0.000600	0.0283	< 0.000600	< 0.00110	< 0.000200	< 0.0000300	0.27	< 0.32 U	< 0.82 U	< 0.82 U
	MW-37	04/09/2021	N	< 0.000400	0.000797 J	0.0180	< 0.000200	< 0.000200	< 0.000400	< 0.000200	< 0.000600	0.0315	< 0.000600	< 0.00110	< 0.000200	< 0.0000300	0.26	< 0.34 U	0.75	0.75
	MW-38R	01/04/2021	N	< 0.000400	0.00595	0.0248	< 0.000200	< 0.000200	0.000807 J	0.00224 J	< 0.000600	0.0342	0.00127 J[U]	< 0.00110	< 0.000200	< 0.0000300	0.26	< 0.34 U	< 0.82 U	< 0.82 U
	MW-38R	04/09/2021	N	< 0.000400	0.00585	0.0250	< 0.000200	< 0.000200	< 0.000400	0.00244 J	< 0.000600	0.0382	0.00144 J	< 0.00110	< 0.000200	< 0.0000300	0.25	< 0.57 U	< 0.79 U	< 0.79 U
	MW-61	01/04/2021	N	< 0.000400	0.000749 J	0.0147	< 0.000200	< 0.000200	< 0.000400	< 0.000200	< 0.000600	0.0332	0.000765 J[U]	< 0.00110	< 0.000200	< 0.0000300	0.32	< 0.22 U	< 0.83 U	< 0.83 U
MW-61	04/09/2021	N	< 0.000400	0.000623 J	0.0140	< 0.000200	< 0.000200	< 0.000400	< 0.000200	< 0.000600	0.0306	0.000836 J	< 0.00110	< 0.000200	< 0.0000300	0.30	< 0.20 U	< 0.76 U	< 0.76 U	

Notes

- N Normal sample
- FD Field duplicate
- J Concentration is an estimated value. Result is less than the method quantitation limit but \geq to the method detection limit.
- U Analyte was not detected at or above the method detection limit.
- JL Estimated data - bias in sample, likely to be low.; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.
- UJ Analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise.
- Y1 Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- n/a Not analyzed

Appendix A

Detection Monitoring Data (January 2021)



10450 Stancliff Rd. Suite 210
Houston, TX 77099
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February 1, 2021

Lori Burris
TRC Corporation
16350 Park Ten Place
Suite 101
Houston, TX 77084

Work Order: **HS21010047**

Laboratory Results for: **NRG WA Parish - Appendix III**

Dear Lori Burris,

ALS Environmental received 28 sample(s) on Jan 04, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group			LRC Date:02/01/2021				
Project Name: NRG WA Parish - Appendix III			Laboratory Job Number: HS21010047				
Reviewer Name: Corey Grandits			Prep Batch Number: 161301,161307,R376111,R376113,R376116,R376160,R376204				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				2
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supportin9 Data							
Laboratory Name: ALS Laboratory Group				LRC Date:02/01/2021			
Project Name: NRG WA Parish - Appendix III				Laboratory Job Number: HS21010047			
Reviewer Name: Corey Grandits				Prep Batch Number: 161301,161307,R376111,R376113,R376116,R376160,R376204			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date:02/01/2021
Project Name: NRG WA Parish - Appendix III	Laboratory Job Number: HS21010047
Reviewer Name: Corey Grandits	Prep Batch Number: 161301,161307,R376111,R376113,R376116,R376160,R376204

ER# ⁵	Description
1	<p>Batch 161300, Metals Method SW6020, sample MW-23, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 161307, Metals Method SW6020, sample MW-58, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R376178, Anions Method E300, sample MW-38R, MS and MSD recovered outside the control limit for Sulfate due to suspect matrix effect.</p> <p>Batch R376178, Anions Method E300, sample HS20121345-15, MS and MSD were performed on unrelated sample.</p> <p>Batch R376204, Anions Method E300, sample MW-58, MS and or MSD recovered outside the control limit for Chloride and Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R376204, Anions Method E300, sample MW-63, MS and or MSD recovered outside the control limit for Chloride and Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p>
2	The analysis for Fluoride was subcontracted to ALS Holland, MI. Report and Laboratory Review Checklist are appended.
3	See Run Log and CCB Exceptions Report.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
 NA = Not Applicable;
 NR = Not Reviewed;
 R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047
Start Date: 11-Jan-2021 **End Date:** 12-Jan-2021

Run ID: ICS-Integrion_376116
Instrument: ICS-Integrion
Method: E300

Sample No.	D/F	Time	FileID	Analytes
CCV 1	1	11-Jan-2021 09:29		SO4
CCB 1	1	11-Jan-2021 09:47		SO4
MBLK-011121	1	11-Jan-2021 10:05		SO4
LCS-011121	1	11-Jan-2021 10:23		SO4
ZZZZZMS	1	11-Jan-2021 10:59		SO4
ZZZZZMSD	1	11-Jan-2021 11:18		SO4
CCB 2	1	11-Jan-2021 12:30		SO4
CCV 2	1	11-Jan-2021 16:07		CL SO4
CCB 3	1	11-Jan-2021 16:43		CL SO4
MW-36	20	11-Jan-2021 17:20		CL SO4
MW-37	20	11-Jan-2021 17:56		CL SO4
MW-38R	20	11-Jan-2021 18:32		CL SO4
MW-38RMS	20	11-Jan-2021 18:50		CL SO4
MW-38RMSD	20	11-Jan-2021 19:08		CL SO4
MW-60	10	11-Jan-2021 19:44		CL SO4
CCB 4	1	11-Jan-2021 20:39		CL SO4
MW-61	10	11-Jan-2021 20:57		CL
MW-61	50	11-Jan-2021 21:15		SO4
DUP-01	20	11-Jan-2021 21:51		CL SO4
DUP-02	20	11-Jan-2021 22:27		CL SO4
FB-01	1	11-Jan-2021 23:04		CL SO4
CCV 3	1	12-Jan-2021 00:16		CL SO4
CCB 5	1	12-Jan-2021 00:52		CL SO4
CCB 6	1	12-Jan-2021 04:47		CL SO4

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21010047
 Start Date: 08-Jan-2021

End Date: 09-Jan-2021

Run ID:ICS-Integrion_376204
 Instrument:ICS-Integrion
 Method:E300

Sample No.	D/F	Time	FileID	Analytes
CCB 1	1	08-Jan-2021 22:38		CL SO4
MW-39	20	08-Jan-2021 23:33		CL SO4
MW-40	1	08-Jan-2021 23:51		SO4
MW-40	20	09-Jan-2021 00:09		CL
MW-41	1	09-Jan-2021 00:27		SO4
MW-41	20	09-Jan-2021 00:45		CL
MW-62	20	09-Jan-2021 01:21		CL SO4
CCV 1	1	09-Jan-2021 01:40		CL SO4
CCB 2	1	09-Jan-2021 02:16		CL SO4
MW-63MS	1	09-Jan-2021 02:52		CL SO4
MW-63MSD	1	09-Jan-2021 03:10		CL SO4
MW-63	10	09-Jan-2021 03:28		CL SO4
MW-64	1	09-Jan-2021 03:46		SO4
MW-64	20	09-Jan-2021 04:04		CL
MW-23	50	09-Jan-2021 04:59		CL SO4
CCB 3	1	09-Jan-2021 06:11		CL SO4
MW-28D	10	09-Jan-2021 06:29		CL SO4
MW-42	20	09-Jan-2021 07:05		CL SO4
MW-43	1	09-Jan-2021 07:24		SO4
MW-43	20	09-Jan-2021 07:42		CL
MW-44	20	09-Jan-2021 08:18		CL SO4
MW-46R	10	09-Jan-2021 08:54		CL SO4
MW-47	1	09-Jan-2021 09:12		SO4
CCV 2	1	09-Jan-2021 09:30		CL SO4
CCB 4	1	09-Jan-2021 10:07		CL SO4
MW-47	20	09-Jan-2021 10:25		CL
MW-48	1	09-Jan-2021 10:43		SO4
MW-48	20	09-Jan-2021 11:01		CL
MW-50	20	09-Jan-2021 11:37		CL SO4
MW-52	10	09-Jan-2021 12:13		SO4
MW-52	50	09-Jan-2021 12:31		CL
MW-54	1	09-Jan-2021 12:50		SO4
MW-54	10	09-Jan-2021 13:08		CL
CCB 5	1	09-Jan-2021 14:02		CL SO4
MW-55R	20	09-Jan-2021 14:38		CL SO4
MW-58MS	1	09-Jan-2021 15:14		CL SO4
MW-58MSD	1	09-Jan-2021 15:33		CL SO4
MW-58	20	09-Jan-2021 15:51		CL SO4
MW-65	10	09-Jan-2021 16:27		CL SO4
CCV 3	1	09-Jan-2021 16:45		CL SO4
CCB 6	1	09-Jan-2021 17:21		CL SO4
MBLK-010821	1	09-Jan-2021 18:16		CL SO4
LCS-010821	1	09-Jan-2021 18:34		CL SO4
CCB 7	1	09-Jan-2021 21:17		CL SO4

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Run ID: ICS-Integriion_376116
Instrument: ICS-Integriion
Method: E300

CCB	Date	Seq	D/F	Units
CCB 2	11-Jan-2021 12:30	5914946	1	ug/L
	Analyte	Result	MDL	Report Limit
	Sulfate	224.7	200	500
CCB 3	11-Jan-2021 16:43	5916615	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	205	200	500
CCB 4	11-Jan-2021 20:39	5916627	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	209	200	500
CCB 5	12-Jan-2021 00:52	5916640	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	207	200	500
CCB 6	12-Jan-2021 04:47	5916643	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	206	200	500

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Run ID: ICS-Integrion_376204
Instrument: ICS-Integrion
Method: E300

CCB	Date	Seq	D/F	Units
CCB 1	08-Jan-2021 22:38	5916502	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	247	200	500
CCB 2	09-Jan-2021 02:16	5916512	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	225	200	500
CCB 3	09-Jan-2021 06:11	5916524	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	244	200	500
	Sulfate	216.1	200	500
CCB 4	09-Jan-2021 10:07	5916536	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	222	200	500
CCB 5	09-Jan-2021 14:02	5916548	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	228	200	500
CCB 6	09-Jan-2021 17:21	5916558	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	224	200	500
	Sulfate	206.4	200	500
CCB 7	09-Jan-2021 21:17	5916562	1	ug/L
	Analyte	Result	MDL	Report Limit
	Chloride	218	200	500

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21010047
 Start Date: 08-Jan-2021

End Date: 08-Jan-2021

Run ID:ICPMS05_376081
 Instrument:ICPMS05
 Method:SW6020

Sample No.	D/F	Time	FileID	Analyses
LLICV2	1	08-Jan-2021 11:27	021LCV2.d	B CA
LLICV5	1	08-Jan-2021 11:29	022LCV5.d	B CA
ICB	1	08-Jan-2021 11:31	023_ICB.d	B CA
ICV	1	08-Jan-2021 11:33	024_ICV.d	B CA
ICSA	1	08-Jan-2021 11:37	025ICSA.d	B CA
ICSAB	1	08-Jan-2021 11:39	026ICSB.d	B CA
CCV 1	1	08-Jan-2021 12:04	035_CCV.d	B CA
CCB 1	1	08-Jan-2021 12:06	036_CCB.d	B CA
CCV 2	1	08-Jan-2021 12:32	045_CCV.d	B CA
CCB 2	1	08-Jan-2021 12:34	046_CCB.d	B CA
CCV 3	1	08-Jan-2021 12:56	057_CCV.d	B CA
CCB 3	1	08-Jan-2021 12:58	058_CCB.d	B CA
CCB 4	1	08-Jan-2021 13:24	070_CCB.d	B CA
CCV 4	1	08-Jan-2021 13:36	072_CCV.d	B CA
CCV 5	1	08-Jan-2021 14:07	083_CCV.d	B CA
CCB 5	1	08-Jan-2021 14:09	084_CCB.d	B CA
CCV 6	1	08-Jan-2021 14:32	095_CCV.d	B CA
CCB 6	1	08-Jan-2021 14:34	096_CCB.d	B CA
CCB 7	1	08-Jan-2021 14:55	098_CCB.d	B CA
MBLK-161301	1	08-Jan-2021 14:58	099SMPL.d	B CA
LCS-161301	1	08-Jan-2021 15:00	100SMPL.d	B CA
CCV 7	1	08-Jan-2021 15:30	109_CCV.d	B CA
CCB 8	1	08-Jan-2021 15:49	112_CCB.d	B CA
MW-63	1	08-Jan-2021 15:55	114SMPL.d	B
MW-63SD	5	08-Jan-2021 15:57	115SMPL.d	
MW-63MS	1	08-Jan-2021 15:59	116SMPL.d	B CA
MW-63MSD	1	08-Jan-2021 16:01	117SMPL.d	B CA
MW-63PDS	1	08-Jan-2021 16:03	118SMPL.d	B
CCV 8	1	08-Jan-2021 16:54	123_CCV.d	B CA
CCB 9	1	08-Jan-2021 17:04	126_CCB.d	B CA
MW-39	1	08-Jan-2021 17:06	127SMPL.d	B
MW-40	1	08-Jan-2021 17:08	128SMPL.d	B
MW-41	1	08-Jan-2021 17:10	129SMPL.d	B
MW-62	1	08-Jan-2021 17:14	131SMPL.d	B
MW-64	1	08-Jan-2021 17:16	132SMPL.d	B
MW-23	1	08-Jan-2021 17:18	133SMPL.d	B
MW-28D	1	08-Jan-2021 17:20	134SMPL.d	B CA
MW-42	1	08-Jan-2021 17:22	135SMPL.d	B CA
CCV 9	1	08-Jan-2021 17:26	137_CCV.d	B CA
CCB 10	1	08-Jan-2021 17:28	138_CCB.d	B CA
CCV 10	1	08-Jan-2021 20:11	142_CCV.d	B CA
CCB 11	1	08-Jan-2021 20:13	143_CCB.d	B CA
CCV 11	1	08-Jan-2021 20:25	149_CCV.d	B CA
CCB 12	1	08-Jan-2021 20:27	150_CCB.d	B CA
LLICCV2	1	08-Jan-2021 20:53	163LCV2.d	B CA
LLICCV5	1	08-Jan-2021 20:55	164LCV5.d	B CA
ICCV 12	1	08-Jan-2021 20:57	165_ICV.d	B CA
ICCB 13	1	08-Jan-2021 20:59	166_ICB.d	B CA
CCB 14	1	08-Jan-2021 21:13	173_CCB.d	B CA
CCV 13	1	08-Jan-2021 21:15	174_CCV.d	B CA
CCV 14	1	08-Jan-2021 21:37	185_CCV.d	B CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21010047
 Start Date: 11-Jan-2021

End Date: 12-Jan-2021

Run ID:ICPMS05_376125
 Instrument:ICPMS05
 Method:SW6020

Sample No.	D/F	Time	FileID	Analyses
ICV	1	11-Jan-2021 13:24	022_ICV.d	B CA
LLICV2	1	11-Jan-2021 13:26	023LCV2.d	B CA
LLICV5	1	11-Jan-2021 13:28	024LCV5.d	B CA
ICB	1	11-Jan-2021 13:30	025_ICB.d	B CA
ICSA	1	11-Jan-2021 13:33	026ICSA.d	B CA
ICSAB	1	11-Jan-2021 13:35	027ICSB.d	B CA
CCV 1	1	11-Jan-2021 13:40	029_CCV.d	B CA
CCB 1	1	11-Jan-2021 13:42	030_CCB.d	B CA
CCV 2	1	11-Jan-2021 14:04	041_CCV.d	B CA
CCB 2	1	11-Jan-2021 14:06	042_CCB.d	B CA
MW-39	20	11-Jan-2021 14:26	052SMPL.d	CA
CCV 3	1	11-Jan-2021 14:28	053_CCV.d	B CA
CCB 3	1	11-Jan-2021 14:30	054_CCB.d	B CA
MW-63	50	11-Jan-2021 14:33	055SMPL.d	CA
MW-63SD	250	11-Jan-2021 14:35	056SMPL.d	CA
MW-63PDS	50	11-Jan-2021 14:37	057SMPL.d	CA
MW-40	20	11-Jan-2021 14:39	058SMPL.d	CA
MW-41	20	11-Jan-2021 14:41	059SMPL.d	CA
MW-62	20	11-Jan-2021 14:43	060SMPL.d	CA
MW-64	20	11-Jan-2021 14:45	061SMPL.d	CA
MW-23	20	11-Jan-2021 14:47	062SMPL.d	CA
CCV 4	1	11-Jan-2021 14:49	063_CCV.d	B CA
CCV 5	1	11-Jan-2021 15:23	075_CCV.d	B CA
CCB 4	1	11-Jan-2021 15:25	076_CCB.d	B CA
CCV 6	1	11-Jan-2021 15:51	086_CCV.d	B CA
CCB 5	1	11-Jan-2021 15:53	087_CCB.d	B CA
CCV 7	1	11-Jan-2021 16:15	096_CCV.d	B CA
CCB 6	1	11-Jan-2021 16:17	097_CCB.d	B CA
CCV 8	1	11-Jan-2021 16:41	108_CCV.d	B CA
CCB 7	1	11-Jan-2021 16:43	109_CCB.d	B CA
CCV 9	1	11-Jan-2021 17:08	120_CCV.d	B CA
CCB 8	1	11-Jan-2021 17:10	121_CCB.d	B CA
CCV 10	1	11-Jan-2021 17:32	132_CCV.d	B CA
CCB 9	1	11-Jan-2021 17:34	133_CCB.d	B CA
CCV 11	1	11-Jan-2021 17:56	144_CCV.d	B CA
CCB 10	1	11-Jan-2021 17:58	145_CCB.d	B CA
CCV 12	1	11-Jan-2021 20:41	150_CCV.d	B CA
CCB 11	1	11-Jan-2021 20:43	151_CCB.d	B CA
CCV 13	1	11-Jan-2021 20:55	157_CCV.d	B CA
CCB 12	1	11-Jan-2021 20:57	158_CCB.d	B CA
CCV 14	1	11-Jan-2021 21:12	166_CCV.d	B CA
CCB 13	1	11-Jan-2021 21:14	167_CCB.d	B CA
CCV 15	1	11-Jan-2021 21:22	171_CCV.d	B CA
CCB 14	1	11-Jan-2021 21:24	172_CCB.d	B CA
CCV 16	1	11-Jan-2021 21:36	178_CCV.d	B CA
CCB 15	1	11-Jan-2021 21:38	179_CCB.d	B CA
CCV 17	1	11-Jan-2021 21:54	187_CCV.d	B CA
CCB 16	1	11-Jan-2021 21:56	188_CCB.d	B CA
CCV 18	1	11-Jan-2021 22:11	194_CCV.d	B CA
CCB 17	1	11-Jan-2021 22:13	195_CCB.d	B CA
MBLK-161307	1	11-Jan-2021 22:15	196SMPL.d	B CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047
Start Date: 11-Jan-2021 **End Date:** 12-Jan-2021

Run ID: ICPMS05_376125
Instrument: ICPMS05
Method: SW6020

Sample No.	D/F	Time	FileID	Analyses
LCS-161307	1	11-Jan-2021 22:17	197SMPL.d	B CA
MW-58	1	11-Jan-2021 22:19	198SMPL.d	B CA
MW-58SD	5	11-Jan-2021 22:21	199SMPL.d	CA
MW-58MS	1	11-Jan-2021 22:23	200SMPL.d	CA
MW-58MSD	1	11-Jan-2021 22:25	201SMPL.d	B CA
MW-58PDS	1	11-Jan-2021 22:27	202SMPL.d	B CA
CCV 19	1	11-Jan-2021 22:29	203_CCV.d	B CA
CCB 18	1	11-Jan-2021 22:31	204_CCB.d	B CA
MW-43	1	11-Jan-2021 22:33	205SMPL.d	B CA
MW-44	1	11-Jan-2021 22:35	206SMPL.d	B CA
MW-46R	1	11-Jan-2021 22:36	207SMPL.d	B CA
MW-47	1	11-Jan-2021 22:38	208SMPL.d	B CA
MW-48	1	11-Jan-2021 22:40	209SMPL.d	B CA
MW-50	1	11-Jan-2021 22:42	210SMPL.d	B CA
MW-52	1	11-Jan-2021 22:44	211SMPL.d	B
MW-54	1	11-Jan-2021 22:46	212SMPL.d	B CA
MW-55R	1	11-Jan-2021 22:48	213SMPL.d	B CA
MW-65	1	11-Jan-2021 22:50	214SMPL.d	B
CCV 20	1	11-Jan-2021 22:52	215_CCV.d	B CA
CCB 19	1	11-Jan-2021 22:54	216_CCB.d	B CA
MW-36	1	11-Jan-2021 22:56	217SMPL.d	B
MW-37	1	11-Jan-2021 22:58	218SMPL.d	B
MW-38R	1	11-Jan-2021 23:00	219SMPL.d	B
MW-60	1	11-Jan-2021 23:02	220SMPL.d	B
DUP-01	1	11-Jan-2021 23:06	222SMPL.d	B
DUP-02	1	11-Jan-2021 23:08	223SMPL.d	B CA
FB-01	1	11-Jan-2021 23:10	224SMPL.d	B CA
CCV 21	1	11-Jan-2021 23:16	227_CCV.d	B CA
CCB 20	1	11-Jan-2021 23:18	228_CCB.d	B CA
CCV 22	1	11-Jan-2021 23:32	235_CCV.d	B CA
CCB 21	1	11-Jan-2021 23:33	236_CCB.d	B CA
CCV 23	1	11-Jan-2021 23:55	247_CCV.d	B CA
CCB 22	1	11-Jan-2021 23:57	248_CCB.d	B CA
CCV 24	1	12-Jan-2021 00:19	259_CCV.d	B CA
CCB 23	1	12-Jan-2021 00:21	260_CCB.d	B CA
CCV 25	1	12-Jan-2021 00:23	261_CCV.d	B CA
CCB 24	1	12-Jan-2021 00:25	262_CCB.d	B CA
LLICV2	1	12-Jan-2021 00:29	264LCV2.d	B CA
LLICV5	1	12-Jan-2021 00:31	265LCV5.d	B CA
ICSA	1	12-Jan-2021 00:33	266ICSA.d	B CA
ICSAB	1	12-Jan-2021 00:35	267ICSB.d	B CA

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Run ID:ICPMS05_376081
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 1	08-Jan-2021 12:06	5914112	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.6	11	20
CCB 2	08-Jan-2021 12:34	5914122	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	25.03	11	20
	Calcium	46.18	34	500
CCB 3	08-Jan-2021 12:58	5914148	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	23.29	11	20
	Calcium	37.22	34	500
CCB 4	08-Jan-2021 13:24	5914134	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	25.7	11	20
	Calcium	42.74	34	500
CCB 5	08-Jan-2021 14:09	5914170	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	25.01	11	20
CCB 6	08-Jan-2021 14:34	5914187	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	47.63	11	20
CCB 8	08-Jan-2021 15:49	5914225	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	32.76	11	20
CCB 9	08-Jan-2021 17:04	5914337	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	43.17	11	20
CCB 10	08-Jan-2021 17:28	5914349	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	46.6	11	20
CCB 11	08-Jan-2021 20:13	5914353	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	24.71	11	20
CCB 12	08-Jan-2021 20:27	5914360	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	26.03	11	20
ICCB 13	08-Jan-2021 20:59	5914416	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	23.68	11	20
CCB 15	08-Jan-2021 21:39	5914436	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	22.96	11	20

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Run ID:ICPMS05_376125
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 1	11-Jan-2021 13:42	5915030	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	18.98	11	20
CCB 2	11-Jan-2021 14:06	5915042	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.71	11	20
CCB 3	11-Jan-2021 14:30	5915165	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	15.3	11	20
CCB 4	11-Jan-2021 15:25	5915286	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	244.4	11	20
CCB 5	11-Jan-2021 15:53	5915433	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	187	11	20
CCB 6	11-Jan-2021 16:17	5915547	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	89.91	11	20
CCB 7	11-Jan-2021 16:43	5915559	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	52.53	11	20
CCB 8	11-Jan-2021 17:10	5915571	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	29.06	11	20
CCB 9	11-Jan-2021 17:34	5915583	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	27.06	11	20
CCB 10	11-Jan-2021 17:58	5915595	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	22.42	11	20
CCB 11	11-Jan-2021 20:43	5915600	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.47	11	20
CCB 12	11-Jan-2021 20:57	5915607	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	20.96	11	20
CCB 13	11-Jan-2021 21:14	5915616	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	32.56	11	20
CCB 14	11-Jan-2021 21:24	5915621	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	22.17	11	20

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Run ID:ICPMS05_376125
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 15	11-Jan-2021 21:38	5915628	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	24.69	11	20
CCB 16	11-Jan-2021 21:56	5915640	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	18.35	11	20
CCB 17	11-Jan-2021 22:13	5915644	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.86	11	20
CCB 18	11-Jan-2021 22:31	5915653	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	29.8	11	20
CCB 19	11-Jan-2021 22:54	5915665	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	29.26	11	20
CCB 20	11-Jan-2021 23:18	5915677	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	26.38	11	20
CCB 21	11-Jan-2021 23:33	5915685	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	23.67	11	20
	Calcium	39.73	34	500
CCB 22	11-Jan-2021 23:57	5915697	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.68	11	20
	Calcium	37.86	34	500
CCB 23	12-Jan-2021 00:21	5915709	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.03	11	20
CCB 24	12-Jan-2021 00:25	5915711	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.41	11	20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21010047

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21010047-01	MW-39	Groundwater		04-Jan-2021 12:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-02	MW-40	Groundwater		04-Jan-2021 11:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-03	MW-41	Groundwater		04-Jan-2021 10:05	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-04	MW-62	Groundwater		04-Jan-2021 13:45	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-05	MW-63	Groundwater		04-Jan-2021 09:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-06	MW-64	Groundwater		04-Jan-2021 11:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-07	MW-23	Groundwater		04-Jan-2021 11:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-08	MW-28D	Groundwater		04-Jan-2021 09:45	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-09	MW-42	Groundwater		04-Jan-2021 10:25	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-10	MW-43	Groundwater		04-Jan-2021 12:35	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-11	MW-44	Groundwater		04-Jan-2021 11:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-12	MW-46R	Groundwater		04-Jan-2021 10:35	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-13	MW-47	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-14	MW-48	Groundwater		04-Jan-2021 11:40	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-15	MW-50	Groundwater		04-Jan-2021 13:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-16	MW-52	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-17	MW-54	Groundwater		04-Jan-2021 08:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-18	MW-55R	Groundwater		04-Jan-2021 09:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-19	MW-58	Groundwater		04-Jan-2021 08:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-20	MW-65	Groundwater		04-Jan-2021 10:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-21	MW-36	Groundwater		04-Jan-2021 10:10	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-22	MW-37	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-23	MW-38R	Groundwater		04-Jan-2021 13:10	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-24	MW-60	Groundwater		04-Jan-2021 09:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-25	MW-61	Groundwater		04-Jan-2021 11:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-26	DUP-01	Groundwater		04-Jan-2021 12:00	04-Jan-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21010047

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21010047-27	DUP-02	Groundwater		04-Jan-2021 10:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010047-28	FB-01	Water		04-Jan-2021 11:40	04-Jan-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-39
 Collection Date: 04-Jan-2021 12:50

ANALYTICAL REPORT

WorkOrder:HS21010047
 Lab ID:HS21010047-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.225		0.0110	0.0200	mg/L	1	08-Jan-2021 17:06
Calcium	227		0.680	10.0	mg/L	20	11-Jan-2021 14:26
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	764		4.00	10.0	mg/L	20	08-Jan-2021 23:33
Sulfate	237		4.00	10.0	mg/L	20	08-Jan-2021 23:33
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,990		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-40
 Collection Date: 04-Jan-2021 11:55

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.133		0.0110	0.0200	mg/L	1	08-Jan-2021 17:08
Calcium	269		0.680	10.0	mg/L	20	11-Jan-2021 14:39
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	573		4.00	10.0	mg/L	20	09-Jan-2021 00:09
Sulfate	85.9		0.200	0.500	mg/L	1	08-Jan-2021 23:51
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,750		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-41
 Collection Date: 04-Jan-2021 10:05

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.114		0.0110	0.0200	mg/L	1	08-Jan-2021 17:10
Calcium	193		0.680	10.0	mg/L	20	11-Jan-2021 14:41
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	441		4.00	10.0	mg/L	20	09-Jan-2021 00:45
Sulfate	59.2		0.200	0.500	mg/L	1	09-Jan-2021 00:27
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,210		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-62
 Collection Date: 04-Jan-2021 13:45

ANALYTICAL REPORT

WorkOrder:HS21010047
 Lab ID:HS21010047-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.115		0.0110	0.0200	mg/L	1	08-Jan-2021 17:14
Calcium	206		0.680	10.0	mg/L	20	11-Jan-2021 14:43
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	569		4.00	10.0	mg/L	20	09-Jan-2021 01:21
Sulfate	106		4.00	10.0	mg/L	20	09-Jan-2021 01:21
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,440		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-63
 Collection Date: 04-Jan-2021 09:00

ANALYTICAL REPORT

WorkOrder:HS21010047
 Lab ID:HS21010047-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.121		0.0110	0.0200	mg/L	1	08-Jan-2021 15:55
Calcium	304		1.70	25.0	mg/L	50	11-Jan-2021 14:33
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	397		2.00	5.00	mg/L	10	09-Jan-2021 03:28
Sulfate	487		2.00	5.00	mg/L	10	09-Jan-2021 03:28
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,590		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-64
 Collection Date: 04-Jan-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Jan-2021		Analyst: JHD
Boron	0.130		0.0110	0.0200	mg/L	1	08-Jan-2021 17:16
Calcium	234		0.680	10.0	mg/L	20	11-Jan-2021 14:45
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	590		4.00	10.0	mg/L	20	09-Jan-2021 04:04
Sulfate	44.0		0.200	0.500	mg/L	1	09-Jan-2021 03:46
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: JAC
Total Dissolved Solids (Residue, Filterable)	1,610		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-23
 Collection Date: 04-Jan-2021 11:30

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.207		0.0110	0.0200	mg/L	1	08-Jan-2021 17:18
Calcium	325		0.680	10.0	mg/L	20	11-Jan-2021 14:47
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	1,050		10.0	25.0	mg/L	50	09-Jan-2021 04:59
Sulfate	395		10.0	25.0	mg/L	50	09-Jan-2021 04:59
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	2,470		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-28D
 Collection Date: 04-Jan-2021 09:45

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.208		0.0110	0.0200	mg/L	1	08-Jan-2021 17:20
Calcium	127		0.0340	0.500	mg/L	1	08-Jan-2021 17:20
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	133		2.00	5.00	mg/L	10	09-Jan-2021 06:29
Sulfate	95.5		2.00	5.00	mg/L	10	09-Jan-2021 06:29
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	738		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-42
 Collection Date: 04-Jan-2021 10:25

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.573		0.0110	0.0200	mg/L	1	08-Jan-2021 17:22
Calcium	173		0.0340	0.500	mg/L	1	08-Jan-2021 17:22
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	334		4.00	10.0	mg/L	20	09-Jan-2021 07:05
Sulfate	519		4.00	10.0	mg/L	20	09-Jan-2021 07:05
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,680		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-43
 Collection Date: 04-Jan-2021 12:35

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.349		0.0110	0.0200	mg/L	1	11-Jan-2021 22:33
Calcium	89.0		0.0340	0.500	mg/L	1	11-Jan-2021 22:33
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	242		4.00	10.0	mg/L	20	09-Jan-2021 07:42
Sulfate	70.2		0.200	0.500	mg/L	1	09-Jan-2021 07:24
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	790		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-44
 Collection Date: 04-Jan-2021 11:30

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.274		0.0110	0.0200	mg/L	1	11-Jan-2021 22:35
Calcium	144		0.0340	0.500	mg/L	1	11-Jan-2021 22:35
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	346		4.00	10.0	mg/L	20	09-Jan-2021 08:18
Sulfate	239		4.00	10.0	mg/L	20	09-Jan-2021 08:18
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,270		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-46R
 Collection Date: 04-Jan-2021 10:35

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.170		0.0110	0.0200	mg/L	1	11-Jan-2021 22:36
Calcium	116		0.0340	0.500	mg/L	1	11-Jan-2021 22:36
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	163		2.00	5.00	mg/L	10	09-Jan-2021 08:54
Sulfate	90.5		2.00	5.00	mg/L	10	09-Jan-2021 08:54
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	698		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-47
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.324		0.0110	0.0200	mg/L	1	11-Jan-2021 22:38
Calcium	127		0.0340	0.500	mg/L	1	11-Jan-2021 22:38
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	351		4.00	10.0	mg/L	20	09-Jan-2021 10:25
Sulfate	88.9		0.200	0.500	mg/L	1	09-Jan-2021 09:12
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,060		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-48
 Collection Date: 04-Jan-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.540		0.0110	0.0200	mg/L	1	11-Jan-2021 22:40
Calcium	79.1		0.0340	0.500	mg/L	1	11-Jan-2021 22:40
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	371		4.00	10.0	mg/L	20	09-Jan-2021 11:01
Sulfate	88.0		0.200	0.500	mg/L	1	09-Jan-2021 10:43
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,080		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-50
 Collection Date: 04-Jan-2021 13:15

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.274		0.0110	0.0200	mg/L	1	11-Jan-2021 22:42
Calcium	138		0.0340	0.500	mg/L	1	11-Jan-2021 22:42
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	355		4.00	10.0	mg/L	20	09-Jan-2021 11:37
Sulfate	103		4.00	10.0	mg/L	20	09-Jan-2021 11:37
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	980		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-52
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.332		0.0110	0.0200	mg/L	1	11-Jan-2021 22:44
Calcium	251		0.340	5.00	mg/L	10	12-Jan-2021 12:34
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	757		10.0	25.0	mg/L	50	09-Jan-2021 12:31
Sulfate	500		2.00	5.00	mg/L	10	09-Jan-2021 12:13
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	2,270		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-54
 Collection Date: 04-Jan-2021 08:55

ANALYTICAL REPORT

WorkOrder:HS21010047
 Lab ID:HS21010047-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Jan-2021		Analyst: JHD
Boron	0.244		0.0110	0.0200	mg/L	1	11-Jan-2021 22:46
Calcium	91.9		0.0340	0.500	mg/L	1	11-Jan-2021 22:46
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	249		2.00	5.00	mg/L	10	09-Jan-2021 13:08
Sulfate	71.8		0.200	0.500	mg/L	1	09-Jan-2021 12:50
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: JAC
Total Dissolved Solids (Residue, Filterable)	690		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-55R
 Collection Date: 04-Jan-2021 09:50

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.418		0.0110	0.0200	mg/L	1	11-Jan-2021 22:48
Calcium	118		0.0340	0.500	mg/L	1	11-Jan-2021 22:48
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	320		4.00	10.0	mg/L	20	09-Jan-2021 14:38
Sulfate	106		4.00	10.0	mg/L	20	09-Jan-2021 14:38
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,050		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-58
 Collection Date: 04-Jan-2021 08:55

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.245		0.0110	0.0200	mg/L	1	11-Jan-2021 22:19
Calcium	145		0.0340	0.500	mg/L	1	11-Jan-2021 22:19
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	412		4.00	10.0	mg/L	20	09-Jan-2021 15:51
Sulfate	130		4.00	10.0	mg/L	20	09-Jan-2021 15:51
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,200		5.00	10.0	mg/L	1	07-Jan-2021 11:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-65
 Collection Date: 04-Jan-2021 10:50

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.266		0.0110	0.0200	mg/L	1	11-Jan-2021 22:50
Calcium	178		0.340	5.00	mg/L	10	12-Jan-2021 12:50
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	173		2.00	5.00	mg/L	10	09-Jan-2021 16:27
Sulfate	534		2.00	5.00	mg/L	10	09-Jan-2021 16:27
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,280		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-36
 Collection Date: 04-Jan-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.0765		0.0110	0.0200	mg/L	1	11-Jan-2021 22:56
Calcium	226		0.340	5.00	mg/L	10	12-Jan-2021 12:52
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	339		4.00	10.0	mg/L	20	11-Jan-2021 17:20
Sulfate	448		4.00	10.0	mg/L	20	11-Jan-2021 17:20
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,360		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-37
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.312		0.0110	0.0200	mg/L	1	11-Jan-2021 22:58
Calcium	247		0.340	5.00	mg/L	10	12-Jan-2021 12:54
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	266		4.00	10.0	mg/L	20	11-Jan-2021 17:56
Sulfate	910		4.00	10.0	mg/L	20	11-Jan-2021 17:56
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,990		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-38R
 Collection Date: 04-Jan-2021 13:10

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.388		0.0110	0.0200	mg/L	1	11-Jan-2021 23:00
Calcium	245		0.340	5.00	mg/L	10	12-Jan-2021 12:56
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	272		4.00	10.0	mg/L	20	11-Jan-2021 18:32
Sulfate	680		4.00	10.0	mg/L	20	11-Jan-2021 18:32
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,690		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-60
 Collection Date: 04-Jan-2021 09:15

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.0979		0.0110	0.0200	mg/L	1	11-Jan-2021 23:02
Calcium	210		0.340	5.00	mg/L	10	12-Jan-2021 12:58
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	358		2.00	5.00	mg/L	10	11-Jan-2021 19:44
Sulfate	179		2.00	5.00	mg/L	10	11-Jan-2021 19:44
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,290		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-61
 Collection Date: 04-Jan-2021 11:15

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Jan-2021		Analyst: JHD
Boron	1.15		0.110	0.200	mg/L	10	12-Jan-2021 13:00
Calcium	222		0.340	5.00	mg/L	10	12-Jan-2021 13:00
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	128		2.00	5.00	mg/L	10	11-Jan-2021 20:57
Sulfate	935		10.0	25.0	mg/L	50	11-Jan-2021 21:15
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: JAC
Total Dissolved Solids (Residue, Filterable)	1,820		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-01
 Collection Date: 04-Jan-2021 12:00

ANALYTICAL REPORT

WorkOrder:HS21010047
 Lab ID:HS21010047-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.0928		0.0110	0.0200	mg/L	1	11-Jan-2021 23:06
Calcium	222		0.340	5.00	mg/L	10	12-Jan-2021 13:02
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	343		4.00	10.0	mg/L	20	11-Jan-2021 21:51
Sulfate	457		4.00	10.0	mg/L	20	11-Jan-2021 21:51
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,460		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-02
 Collection Date: 04-Jan-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-27
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.293		0.0110	0.0200	mg/L	1	11-Jan-2021 23:08
Calcium	152		0.0340	0.500	mg/L	1	11-Jan-2021 23:08
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	351		4.00	10.0	mg/L	20	11-Jan-2021 22:27
Sulfate	244		4.00	10.0	mg/L	20	11-Jan-2021 22:27
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	1,320		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: FB-01
 Collection Date: 04-Jan-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21010047
 Lab ID:HS21010047-28
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Boron	0.0278		0.0110	0.0200	mg/L	1	11-Jan-2021 23:10
Calcium	0.183	J	0.0340	0.500	mg/L	1	11-Jan-2021 23:10
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	0.251	J	0.200	0.500	mg/L	1	11-Jan-2021 23:04
Sulfate	0.235	J	0.200	0.500	mg/L	1	11-Jan-2021 23:04
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: JAC	
Total Dissolved Solids (Residue, Filterable)	< 5.00		5.00	10.0	mg/L	1	07-Jan-2021 11:53
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

Batch ID: 161301 **Start Date:** 05 Jan 2021 09:00 **End Date:** 05 Jan 2021 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010047-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 161307 **Start Date:** 05 Jan 2021 09:00 **End Date:** 05 Jan 2021 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010047-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-27		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010047-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 161301 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21010047-01	MW-39	04 Jan 2021 12:50		05 Jan 2021 13:00	11 Jan 2021 14:26	20
HS21010047-01	MW-39	04 Jan 2021 12:50		05 Jan 2021 13:00	08 Jan 2021 17:06	1
HS21010047-02	MW-40	04 Jan 2021 11:55		05 Jan 2021 13:00	11 Jan 2021 14:39	20
HS21010047-02	MW-40	04 Jan 2021 11:55		05 Jan 2021 13:00	08 Jan 2021 17:08	1
HS21010047-03	MW-41	04 Jan 2021 10:05		05 Jan 2021 13:00	11 Jan 2021 14:41	20
HS21010047-03	MW-41	04 Jan 2021 10:05		05 Jan 2021 13:00	08 Jan 2021 17:10	1
HS21010047-04	MW-62	04 Jan 2021 13:45		05 Jan 2021 13:00	11 Jan 2021 14:43	20
HS21010047-04	MW-62	04 Jan 2021 13:45		05 Jan 2021 13:00	08 Jan 2021 17:14	1
HS21010047-05	MW-63	04 Jan 2021 09:00		05 Jan 2021 13:00	11 Jan 2021 14:33	50
HS21010047-05	MW-63	04 Jan 2021 09:00		05 Jan 2021 13:00	08 Jan 2021 15:55	1
HS21010047-06	MW-64	04 Jan 2021 11:00		05 Jan 2021 13:00	11 Jan 2021 14:45	20
HS21010047-06	MW-64	04 Jan 2021 11:00		05 Jan 2021 13:00	08 Jan 2021 17:16	1
HS21010047-07	MW-23	04 Jan 2021 11:30		05 Jan 2021 13:00	11 Jan 2021 14:47	20
HS21010047-07	MW-23	04 Jan 2021 11:30		05 Jan 2021 13:00	08 Jan 2021 17:18	1
HS21010047-08	MW-28D	04 Jan 2021 09:45		05 Jan 2021 13:00	08 Jan 2021 17:20	1
HS21010047-09	MW-42	04 Jan 2021 10:25		05 Jan 2021 13:00	08 Jan 2021 17:22	1
Batch ID: 161307 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21010047-28	FB-01	04 Jan 2021 11:40		05 Jan 2021 13:00	11 Jan 2021 23:10	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 161307 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21010047-10	MW-43	04 Jan 2021 12:35		05 Jan 2021 13:00	11 Jan 2021 22:33	1
HS21010047-11	MW-44	04 Jan 2021 11:30		05 Jan 2021 13:00	11 Jan 2021 22:35	1
HS21010047-12	MW-46R	04 Jan 2021 10:35		05 Jan 2021 13:00	11 Jan 2021 22:36	1
HS21010047-13	MW-47	04 Jan 2021 12:30		05 Jan 2021 13:00	11 Jan 2021 22:38	1
HS21010047-14	MW-48	04 Jan 2021 11:40		05 Jan 2021 13:00	11 Jan 2021 22:40	1
HS21010047-15	MW-50	04 Jan 2021 13:15		05 Jan 2021 13:00	11 Jan 2021 22:42	1
HS21010047-16	MW-52	04 Jan 2021 12:30		05 Jan 2021 13:00	12 Jan 2021 12:34	10
HS21010047-16	MW-52	04 Jan 2021 12:30		05 Jan 2021 13:00	11 Jan 2021 22:44	1
HS21010047-17	MW-54	04 Jan 2021 08:55		05 Jan 2021 13:00	11 Jan 2021 22:46	1
HS21010047-18	MW-55R	04 Jan 2021 09:50		05 Jan 2021 13:00	11 Jan 2021 22:48	1
HS21010047-19	MW-58	04 Jan 2021 08:55		05 Jan 2021 13:00	11 Jan 2021 22:19	1
HS21010047-20	MW-65	04 Jan 2021 10:50		05 Jan 2021 13:00	12 Jan 2021 12:50	10
HS21010047-20	MW-65	04 Jan 2021 10:50		05 Jan 2021 13:00	11 Jan 2021 22:50	1
HS21010047-21	MW-36	04 Jan 2021 10:10		05 Jan 2021 13:00	12 Jan 2021 12:52	10
HS21010047-21	MW-36	04 Jan 2021 10:10		05 Jan 2021 13:00	11 Jan 2021 22:56	1
HS21010047-22	MW-37	04 Jan 2021 12:30		05 Jan 2021 13:00	12 Jan 2021 12:54	10
HS21010047-22	MW-37	04 Jan 2021 12:30		05 Jan 2021 13:00	11 Jan 2021 22:58	1
HS21010047-23	MW-38R	04 Jan 2021 13:10		05 Jan 2021 13:00	12 Jan 2021 12:56	10
HS21010047-23	MW-38R	04 Jan 2021 13:10		05 Jan 2021 13:00	11 Jan 2021 23:00	1
HS21010047-24	MW-60	04 Jan 2021 09:15		05 Jan 2021 13:00	12 Jan 2021 12:58	10
HS21010047-24	MW-60	04 Jan 2021 09:15		05 Jan 2021 13:00	11 Jan 2021 23:02	1
HS21010047-25	MW-61	04 Jan 2021 11:15		05 Jan 2021 13:00	12 Jan 2021 13:00	10
HS21010047-26	DUP-01	04 Jan 2021 12:00		05 Jan 2021 13:00	12 Jan 2021 13:02	10
HS21010047-26	DUP-01	04 Jan 2021 12:00		05 Jan 2021 13:00	11 Jan 2021 23:06	1
HS21010047-27	DUP-02	04 Jan 2021 10:00		05 Jan 2021 13:00	11 Jan 2021 23:08	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
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DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R376111 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Groundwater	
HS21010047-01	MW-39	04 Jan 2021 12:50			07 Jan 2021 11:25	1
HS21010047-02	MW-40	04 Jan 2021 11:55			07 Jan 2021 11:25	1
HS21010047-03	MW-41	04 Jan 2021 10:05			07 Jan 2021 11:25	1
HS21010047-04	MW-62	04 Jan 2021 13:45			07 Jan 2021 11:25	1
HS21010047-05	MW-63	04 Jan 2021 09:00			07 Jan 2021 11:25	1
HS21010047-06	MW-64	04 Jan 2021 11:00			07 Jan 2021 11:25	1
HS21010047-07	MW-23	04 Jan 2021 11:30			07 Jan 2021 11:25	1
HS21010047-08	MW-28D	04 Jan 2021 09:45			07 Jan 2021 11:25	1
HS21010047-09	MW-42	04 Jan 2021 10:25			07 Jan 2021 11:25	1
HS21010047-10	MW-43	04 Jan 2021 12:35			07 Jan 2021 11:25	1
HS21010047-11	MW-44	04 Jan 2021 11:30			07 Jan 2021 11:25	1
HS21010047-12	MW-46R	04 Jan 2021 10:35			07 Jan 2021 11:25	1
HS21010047-13	MW-47	04 Jan 2021 12:30			07 Jan 2021 11:25	1
HS21010047-14	MW-48	04 Jan 2021 11:40			07 Jan 2021 11:25	1
HS21010047-15	MW-50	04 Jan 2021 13:15			07 Jan 2021 11:25	1
HS21010047-16	MW-52	04 Jan 2021 12:30			07 Jan 2021 11:25	1
HS21010047-17	MW-54	04 Jan 2021 08:55			07 Jan 2021 11:25	1
HS21010047-18	MW-55R	04 Jan 2021 09:50			07 Jan 2021 11:25	1
HS21010047-19	MW-58	04 Jan 2021 08:55			07 Jan 2021 11:25	1
Batch ID: R376113 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Water	
HS21010047-28	FB-01	04 Jan 2021 11:40			07 Jan 2021 11:53	1
Batch ID: R376113 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Groundwater	
HS21010047-20	MW-65	04 Jan 2021 10:50			07 Jan 2021 11:53	1
HS21010047-21	MW-36	04 Jan 2021 10:10			07 Jan 2021 11:53	1
HS21010047-22	MW-37	04 Jan 2021 12:30			07 Jan 2021 11:53	1
HS21010047-23	MW-38R	04 Jan 2021 13:10			07 Jan 2021 11:53	1
HS21010047-24	MW-60	04 Jan 2021 09:15			07 Jan 2021 11:53	1
HS21010047-25	MW-61	04 Jan 2021 11:15			07 Jan 2021 11:53	1
HS21010047-26	DUP-01	04 Jan 2021 12:00			07 Jan 2021 11:53	1
HS21010047-27	DUP-02	04 Jan 2021 10:00			07 Jan 2021 11:53	1
Batch ID: R376116 (0)		Test Name : ANIONS BY E300.0			Matrix: Water	
HS21010047-28	FB-01	04 Jan 2021 11:40			11 Jan 2021 23:04	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R376116 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS21010047-21	MW-36	04 Jan 2021 10:10			11 Jan 2021 17:20	20
HS21010047-22	MW-37	04 Jan 2021 12:30			11 Jan 2021 17:56	20
HS21010047-23	MW-38R	04 Jan 2021 13:10			11 Jan 2021 18:32	20
HS21010047-24	MW-60	04 Jan 2021 09:15			11 Jan 2021 19:44	10
HS21010047-25	MW-61	04 Jan 2021 11:15			11 Jan 2021 21:15	50
HS21010047-25	MW-61	04 Jan 2021 11:15			11 Jan 2021 20:57	10
HS21010047-26	DUP-01	04 Jan 2021 12:00			11 Jan 2021 21:51	20
HS21010047-27	DUP-02	04 Jan 2021 10:00			11 Jan 2021 22:27	20
Batch ID: R376160 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21010047-28	FB-01	04 Jan 2021 11:40			12 Jan 2021 09:35	1
Batch ID: R376160 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Groundwater	
HS21010047-01	MW-39	04 Jan 2021 12:50			12 Jan 2021 09:35	1
HS21010047-02	MW-40	04 Jan 2021 11:55			12 Jan 2021 09:35	1
HS21010047-03	MW-41	04 Jan 2021 10:05			12 Jan 2021 09:35	1
HS21010047-04	MW-62	04 Jan 2021 13:45			12 Jan 2021 09:35	1
HS21010047-05	MW-63	04 Jan 2021 09:00			12 Jan 2021 09:35	1
HS21010047-06	MW-64	04 Jan 2021 11:00			12 Jan 2021 09:35	1
HS21010047-07	MW-23	04 Jan 2021 11:30			12 Jan 2021 09:35	1
HS21010047-08	MW-28D	04 Jan 2021 09:45			12 Jan 2021 09:35	1
HS21010047-09	MW-42	04 Jan 2021 10:25			12 Jan 2021 09:35	1
HS21010047-10	MW-43	04 Jan 2021 12:35			12 Jan 2021 09:35	1
HS21010047-11	MW-44	04 Jan 2021 11:30			12 Jan 2021 09:35	1
HS21010047-12	MW-46R	04 Jan 2021 10:35			12 Jan 2021 09:35	1
HS21010047-13	MW-47	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010047-14	MW-48	04 Jan 2021 11:40			12 Jan 2021 09:35	1
HS21010047-15	MW-50	04 Jan 2021 13:15			12 Jan 2021 09:35	1
HS21010047-16	MW-52	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010047-17	MW-54	04 Jan 2021 08:55			12 Jan 2021 09:35	1
HS21010047-18	MW-55R	04 Jan 2021 09:50			12 Jan 2021 09:35	1
HS21010047-19	MW-58	04 Jan 2021 08:55			12 Jan 2021 09:35	1
HS21010047-20	MW-65	04 Jan 2021 10:50			12 Jan 2021 09:35	1
HS21010047-21	MW-36	04 Jan 2021 10:10			12 Jan 2021 09:35	1
HS21010047-22	MW-37	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010047-23	MW-38R	04 Jan 2021 13:10			12 Jan 2021 09:35	1
HS21010047-24	MW-60	04 Jan 2021 09:15			12 Jan 2021 09:35	1
HS21010047-25	MW-61	04 Jan 2021 11:15			12 Jan 2021 09:35	1
HS21010047-26	DUP-01	04 Jan 2021 12:00			12 Jan 2021 09:35	1
HS21010047-27	DUP-02	04 Jan 2021 10:00			12 Jan 2021 09:35	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R376204 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS21010047-01	MW-39	04 Jan 2021 12:50			08 Jan 2021 23:33	20
HS21010047-02	MW-40	04 Jan 2021 11:55			09 Jan 2021 00:09	20
HS21010047-02	MW-40	04 Jan 2021 11:55			08 Jan 2021 23:51	1
HS21010047-03	MW-41	04 Jan 2021 10:05			09 Jan 2021 00:45	20
HS21010047-03	MW-41	04 Jan 2021 10:05			09 Jan 2021 00:27	1
HS21010047-04	MW-62	04 Jan 2021 13:45			09 Jan 2021 01:21	20
HS21010047-05	MW-63	04 Jan 2021 09:00			09 Jan 2021 03:28	10
HS21010047-06	MW-64	04 Jan 2021 11:00			09 Jan 2021 04:04	20
HS21010047-06	MW-64	04 Jan 2021 11:00			09 Jan 2021 03:46	1
HS21010047-07	MW-23	04 Jan 2021 11:30			09 Jan 2021 04:59	50
HS21010047-08	MW-28D	04 Jan 2021 09:45			09 Jan 2021 06:29	10
HS21010047-09	MW-42	04 Jan 2021 10:25			09 Jan 2021 07:05	20
HS21010047-10	MW-43	04 Jan 2021 12:35			09 Jan 2021 07:42	20
HS21010047-10	MW-43	04 Jan 2021 12:35			09 Jan 2021 07:24	1
HS21010047-11	MW-44	04 Jan 2021 11:30			09 Jan 2021 08:18	20
HS21010047-12	MW-46R	04 Jan 2021 10:35			09 Jan 2021 08:54	10
HS21010047-13	MW-47	04 Jan 2021 12:30			09 Jan 2021 10:25	20
HS21010047-13	MW-47	04 Jan 2021 12:30			09 Jan 2021 09:12	1
HS21010047-14	MW-48	04 Jan 2021 11:40			09 Jan 2021 11:01	20
HS21010047-14	MW-48	04 Jan 2021 11:40			09 Jan 2021 10:43	1
HS21010047-15	MW-50	04 Jan 2021 13:15			09 Jan 2021 11:37	20
HS21010047-16	MW-52	04 Jan 2021 12:30			09 Jan 2021 12:31	50
HS21010047-16	MW-52	04 Jan 2021 12:30			09 Jan 2021 12:13	10
HS21010047-17	MW-54	04 Jan 2021 08:55			09 Jan 2021 13:08	10
HS21010047-17	MW-54	04 Jan 2021 08:55			09 Jan 2021 12:50	1
HS21010047-18	MW-55R	04 Jan 2021 09:50			09 Jan 2021 14:38	20
HS21010047-19	MW-58	04 Jan 2021 08:55			09 Jan 2021 15:51	20
HS21010047-20	MW-65	04 Jan 2021 10:50			09 Jan 2021 16:27	10

WorkOrder: HS21010047
 InstrumentID: ICPMS05
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Boron	7440-42-8	0.0125	0.0173	0.0110	0.0200
A	Calcium	7440-70-2	0.0500	0.0509	0.0340	0.500

WorkOrder: HS21010047
 InstrumentID: ICS-Integrion
 Test Code: 300_W
 Test Number: E300
 Test Name: Anions by E300.0

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Chloride	16887-00-6	0.500	0.542	0.200	0.500
A	Sulfate	14808-79-8	0.500	0.569	0.200	0.500

WorkOrder: HS21010047
InstrumentID: Balance1
Test Code: TDS_W 2540C
Test Number: M2540C
Test Name: Total Dissolved Solids by

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	5.00	6.00	5.00	10.0

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: 161301 (0)		Instrument: ICPMS05			Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-161301	Units: mg/L			Analysis Date: 08-Jan-2021 14:58					
Client ID:		Run ID: ICPMS05_376081	SeqNo: 5914212	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-161301	Units: mg/L			Analysis Date: 08-Jan-2021 15:00					
Client ID:		Run ID: ICPMS05_376081	SeqNo: 5914213	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4818	0.0200	0.5	0	96.4	80 - 120				
Calcium	4.741	0.500	5	0	94.8	80 - 120				
MS	Sample ID: HS21010047-05MS	Units: mg/L			Analysis Date: 08-Jan-2021 15:59					
Client ID: MW-63		Run ID: ICPMS05_376081	SeqNo: 5914228	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5982	0.0200	0.5	0.1213	95.4	80 - 120				
Calcium	329.8	0.500	5	328.8	20.5	80 - 120				SEO
MSD	Sample ID: HS21010047-05MSD	Units: mg/L			Analysis Date: 08-Jan-2021 16:01					
Client ID: MW-63		Run ID: ICPMS05_376081	SeqNo: 5914229	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6293	0.0200	0.5	0.1213	102	80 - 120	0.5982	5.07	20	
Calcium	337.5	0.500	5	328.8	175	80 - 120	329.8	2.32	20	SEO
PDS	Sample ID: HS21010047-05PDS	Units: mg/L			Analysis Date: 08-Jan-2021 16:03					
Client ID: MW-63		Run ID: ICPMS05_376081	SeqNo: 5914230	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.3768	0.0200	0.25	0.1213	102	75 - 125				

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
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QC BATCH REPORT

Batch ID: 161301 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

PDS Sample ID: **HS21010047-05PDS** Units: **mg/L** Analysis Date: **11-Jan-2021 14:37**
 Client ID: **MW-63** Run ID: **ICPMS05_376125** SeqNo: **5915168** PrepDate: **05-Jan-2021** DF: **50**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Calcium 809.4 25.0 500 304.1 101 75 - 125

SD Sample ID: **HS21010047-05SD** Units: **mg/L** Analysis Date: **11-Jan-2021 14:35**
 Client ID: **MW-63** Run ID: **ICPMS05_376125** SeqNo: **5915167** PrepDate: **05-Jan-2021** DF: **250**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %D %D Limit Qual

Calcium 284.9 125 304.1 6.31 10

The following samples were analyzed in this batch:

HS21010047-01	HS21010047-02	HS21010047-03	HS21010047-04
HS21010047-05	HS21010047-06	HS21010047-07	HS21010047-08
HS21010047-09			

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
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QC BATCH REPORT

Batch ID: 161307 (0)		Instrument: ICPMS05		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-161307	Units: mg/L			Analysis Date: 11-Jan-2021 22:15					
Client ID:		Run ID: ICPMS05_376125	SeqNo: 5915645	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-161307	Units: mg/L			Analysis Date: 11-Jan-2021 22:17					
Client ID:		Run ID: ICPMS05_376125	SeqNo: 5915646	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4245	0.0200	0.5	0	84.9	80 - 120				
Calcium	5.007	0.500	5	0	100	80 - 120				
MS	Sample ID: HS21010047-19MS	Units: mg/L			Analysis Date: 12-Jan-2021 12:38					
Client ID: MW-58		Run ID: ICPMS05_376193	SeqNo: 5916416	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6655	0.0200	0.5	0.2455	84.0	80 - 120				
MS	Sample ID: HS21010047-19MS	Units: mg/L			Analysis Date: 11-Jan-2021 22:23					
Client ID: MW-58		Run ID: ICPMS05_376125	SeqNo: 5915649	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	142.9	0.500	5	145	-42.7	80 - 120				SO
MSD	Sample ID: HS21010047-19MSD	Units: mg/L			Analysis Date: 11-Jan-2021 22:25					
Client ID: MW-58		Run ID: ICPMS05_376125	SeqNo: 5915650	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.6487	0.0200	0.5	0.2455	80.7	80 - 120	0.6185	4.77	20	
Calcium	141.7	0.500	5	145	-66.0	80 - 120	142.9	0.821	20	SO

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
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QC BATCH REPORT

Batch ID: 161307 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

PDS		Sample ID: HS21010047-19PDS			Units: mg/L		Analysis Date: 11-Jan-2021 22:27			
Client ID:	MW-58	Run ID: ICPMS05_376125		SeqNo: 5915651	PrepDate: 05-Jan-2021	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.7276	0.0200	0.5	0.2455	96.4	75 - 125				
Calcium	155.2	0.500	10	145	101	75 - 125				

SD		Sample ID: HS21010047-19SD			Units: mg/L		Analysis Date: 11-Jan-2021 22:21			
Client ID:	MW-58	Run ID: ICPMS05_376125		SeqNo: 5915648	PrepDate: 05-Jan-2021	DF: 5				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Calcium	138.7	2.50					145	4.36	10	

The following samples were analyzed in this batch:

HS21010047-10	HS21010047-11	HS21010047-12	HS21010047-13
HS21010047-14	HS21010047-15	HS21010047-16	HS21010047-17
HS21010047-18	HS21010047-19	HS21010047-20	HS21010047-21
HS21010047-22	HS21010047-23	HS21010047-24	HS21010047-25
HS21010047-26	HS21010047-27	HS21010047-28	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376111 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C					
MBLK	Sample ID: WBLK-010721	Units: mg/L		Analysis Date: 07-Jan-2021 11:25					
Client ID:	Run ID: Balance1_376111	SeqNo: 5914829		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) < 5.00 10.0

LCS	Sample ID: WLCS-010721	Units: mg/L		Analysis Date: 07-Jan-2021 11:25					
Client ID:	Run ID: Balance1_376111	SeqNo: 5914830		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1004 10.0 1000 0 100 85 - 115

DUP	Sample ID: HS21010047-19DUP	Units: mg/L		Analysis Date: 07-Jan-2021 11:25					
Client ID: MW-58	Run ID: Balance1_376111	SeqNo: 5914828		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1212 10.0 1204 0.662 5

DUP	Sample ID: HS21010047-05DUP	Units: mg/L		Analysis Date: 07-Jan-2021 11:25					
Client ID: MW-63	Run ID: Balance1_376111	SeqNo: 5914813		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1596 10.0 1588 0.503 5

The following samples were analyzed in this batch:	HS21010047-01	HS21010047-02	HS21010047-03	HS21010047-04
	HS21010047-05	HS21010047-06	HS21010047-07	HS21010047-08
	HS21010047-09	HS21010047-10	HS21010047-11	HS21010047-12
	HS21010047-13	HS21010047-14	HS21010047-15	HS21010047-16
	HS21010047-17	HS21010047-18	HS21010047-19	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376113 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C

MBLK	Sample ID: WBLK-010721	Units: mg/L			Analysis Date: 07-Jan-2021 11:53					
Client ID:	Run ID: Balance1_376113	SeqNo: 5914881	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) < 5.00 10.0

LCS	Sample ID: WLCS-010721	Units: mg/L			Analysis Date: 07-Jan-2021 11:53					
Client ID:	Run ID: Balance1_376113	SeqNo: 5914882	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 994 10.0 1000 0 99.4 85 - 115

DUP	Sample ID: HS21010047-22DUP	Units: mg/L			Analysis Date: 07-Jan-2021 11:53					
Client ID: MW-37	Run ID: Balance1_376113	SeqNo: 5914872	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 2000 10.0 1994 0.3 5

DUP	Sample ID: HS21010047-20DUP	Units: mg/L			Analysis Date: 07-Jan-2021 11:53					
Client ID: MW-65	Run ID: Balance1_376113	SeqNo: 5914869	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids (Residue, Filterable) 1278 10.0 1276 0.157 5

The following samples were analyzed in this batch:

HS21010047-20	HS21010047-21	HS21010047-22	HS21010047-23
HS21010047-24	HS21010047-25	HS21010047-26	HS21010047-27
HS21010047-28			

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376116 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MBLK	Sample ID: MBLK-011121	Units: mg/L			Analysis Date: 11-Jan-2021 10:05					
Client ID:		Run ID: ICS-Integrion_376116		SeqNo: 5914938		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	0.207	0.500							J	
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS-011121	Units: mg/L			Analysis Date: 11-Jan-2021 10:23					
Client ID:		Run ID: ICS-Integrion_376116		SeqNo: 5914939		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	20.48	0.500	20	0	102	90 - 110				
Sulfate	20.44	0.500	20	0	102	90 - 110				
MS	Sample ID: HS21010047-23MS	Units: mg/L			Analysis Date: 11-Jan-2021 18:50					
Client ID: MW-38R		Run ID: ICS-Integrion_376116		SeqNo: 5916622		PrepDate:		DF: 20		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	451.8	10.0	200	271.6	90.1	80 - 120				
Sulfate	837.9	10.0	200	679.9	79.0	80 - 120			S	
MS	Sample ID: HS20121345-15MS	Units: mg/L			Analysis Date: 11-Jan-2021 10:59					
Client ID:		Run ID: ICS-Integrion_376116		SeqNo: 5914941		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	140.7	0.500	10	132.9	78.1	80 - 120			SEO	
Sulfate	11.74	0.500	10	2.042	97.0	80 - 120				
MSD	Sample ID: HS21010047-23MSD	Units: mg/L			Analysis Date: 11-Jan-2021 19:08					
Client ID: MW-38R		Run ID: ICS-Integrion_376116		SeqNo: 5916623		PrepDate:		DF: 20		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	451.1	10.0	200	271.6	89.7	80 - 120	451.8	0.164	20	
Sulfate	836.8	10.0	200	679.9	78.4	80 - 120	837.9	0.132	20 S	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376116 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS20121345-15MSD	Units: mg/L			Analysis Date: 11-Jan-2021 11:18					
Client ID:	Run ID: ICS-Integrion_376116	SeqNo: 5914942	PrepDate:	DF: 1						
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	138.9	0.500	10	132.9	60.1	80 - 120	140.7	1.29	20	SEO
Sulfate	11.75	0.500	10	2.042	97.1	80 - 120	11.74	0.0707	20	

The following samples were analyzed in this batch:

HS21010047-21	HS21010047-22	HS21010047-23	HS21010047-24
HS21010047-25	HS21010047-26	HS21010047-27	HS21010047-28

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376204 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MBLK	Sample ID: MBLK-010821	Units: mg/L			Analysis Date: 09-Jan-2021 18:16					
Client ID:		Run ID: ICS-Integrion_376204		SeqNo: 5916559		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	0.223	0.500							J	
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS-010821	Units: mg/L			Analysis Date: 09-Jan-2021 18:34					
Client ID:		Run ID: ICS-Integrion_376204		SeqNo: 5916560		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	20.64	0.500	20	0	103	90 - 110				
Sulfate	20.58	0.500	20	0	103	90 - 110				
MS	Sample ID: HS21010047-19MS	Units: mg/L			Analysis Date: 09-Jan-2021 15:14					
Client ID: MW-58		Run ID: ICS-Integrion_376204		SeqNo: 5916552		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	389.6	0.500	10	382	75.4	80 - 120			SEO	
Sulfate	131.6	0.500	10	121.2	104	80 - 120			EO	
MS	Sample ID: HS21010047-05MS	Units: mg/L			Analysis Date: 09-Jan-2021 02:52					
Client ID: MW-63		Run ID: ICS-Integrion_376204		SeqNo: 5916514		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	394.2	0.500	10	388.4	57.5	80 - 120			SEO	
Sulfate	472.6	0.500	10	466.3	63.6	80 - 120			SEO	
MSD	Sample ID: HS21010047-19MSD	Units: mg/L			Analysis Date: 09-Jan-2021 15:33					
Client ID: MW-58		Run ID: ICS-Integrion_376204		SeqNo: 5916553		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	384.6	0.500	10	382	25.6	80 - 120	389.6	1.29	20 SEO	
Sulfate	129	0.500	10	121.2	78.4	80 - 120	131.6	1.94	20 SEO	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

QC BATCH REPORT

Batch ID: R376204 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS21010047-05MSD	Units: mg/L			Analysis Date: 09-Jan-2021 03:10					
Client ID: MW-63	Run ID: ICS-Integrion_376204	SeqNo: 5916515		PrepDate:			DF: 1			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	386.9	0.500	10	388.4	-15.3	80 - 120	394.2	1.86	20	SEO
Sulfate	460.6	0.500	10	466.3	-57.0	80 - 120	472.6	2.59	20	SEO

The following samples were analyzed in this batch:

HS21010047-01	HS21010047-02	HS21010047-03	HS21010047-04
HS21010047-05	HS21010047-06	HS21010047-07	HS21010047-08
HS21010047-09	HS21010047-10	HS21010047-11	HS21010047-12
HS21010047-13	HS21010047-14	HS21010047-15	HS21010047-16
HS21010047-17	HS21010047-18	HS21010047-19	HS21010047-20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21010047

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2021	31-Dec-2021
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-20-26	30-Apr-2021

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21010047

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21010047-01	MW-39	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-01	MW-39	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-01	MW-39	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-02	MW-40	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-02	MW-40	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-02	MW-40	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-03	MW-41	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-03	MW-41	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-03	MW-41	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-04	MW-62	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-04	MW-62	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-04	MW-62	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-05	MW-63	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-05	MW-63	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-05	MW-63	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-06	MW-64	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-06	MW-64	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-06	MW-64	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-07	MW-23	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-07	MW-23	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-07	MW-23	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-08	MW-28D	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-08	MW-28D	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-08	MW-28D	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-09	MW-42	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-09	MW-42	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-09	MW-42	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-10	MW-43	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-10	MW-43	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-10	MW-43	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-11	MW-44	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-11	MW-44	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-11	MW-44	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-12	MW-46R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-12	MW-46R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-12	MW-46R	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-13	MW-47	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-13	MW-47	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-13	MW-47	Login	1/4/2021 3:54:41 PM	PMG	Sub

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21010047

SAMPLE TRACKING

HS21010047-14	MW-48	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-14	MW-48	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-14	MW-48	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-15	MW-50	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-15	MW-50	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-15	MW-50	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-16	MW-52	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-16	MW-52	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-16	MW-52	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-17	MW-54	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-17	MW-54	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-17	MW-54	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-18	MW-55R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-18	MW-55R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-18	MW-55R	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-19	MW-58	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-19	MW-58	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-19	MW-58	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-20	MW-65	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-20	MW-65	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-20	MW-65	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-21	MW-36	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-21	MW-36	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-21	MW-36	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-22	MW-37	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-22	MW-37	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-22	MW-37	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-23	MW-38R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-23	MW-38R	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-23	MW-38R	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-24	MW-60	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-24	MW-60	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-24	MW-60	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-25	MW-61	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-25	MW-61	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-25	MW-61	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-26	DUP-01	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-26	DUP-01	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-26	DUP-01	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-27	DUP-02	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-27	DUP-02	Login	1/4/2021 3:54:41 PM	PMG	Disposed

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21010047

SAMPLE TRACKING

HS21010047-27	DUP-02	Login	1/4/2021 3:54:41 PM	PMG	Sub
HS21010047-28	FB-01	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-28	FB-01	Login	1/4/2021 3:54:41 PM	PMG	Disposed
HS21010047-28	FB-01	Login	1/4/2021 3:54:41 PM	PMG	Sub

Sample Receipt Checklist

Work Order ID: HS21010047

Date/Time Received: 04-Jan-2021 14:50

Client Name: TRC-HOU

Received by: Pablo Martinez

Completed By: /S/ Paresh M. Giga	04-Jan-2021 16:18	Reviewed by: /S/ Corey Grandits	05-Jan-2021 17:56
eSignature	Date/Time	eSignature	Date/Time

Matrices: **GW/Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 3 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC
- Samplers name present on COC? Yes No IDs:231115/231116/231117
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	0.4C; 0.1C; 0.3C; 0.2C; 0.6C; 1.2C; 0.9C; 0.4C U/C IR25
Cooler(s)/Kit(s):	45713/45404/44986/46525/46600/45966/46525/45122
Date/Time sample(s) sent to storage:	1/4/2020 17:30

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Chain of Custody Form

HS21010047

wv

Page 1 of 3

COC ID: 231115

TRC Corporation
NRG WA Parish - Appendix III



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix III	A
Work Order		Project Number		B
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C
Send Report To	Lori Burris	Invoice Attn	A/P	D
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77084	G
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

ICP_TW (B and Ca)- Appendix III
 300_W (Cl, SO4)- Appendix III
 Sub_Fluoride (Sub Fluoride to ALS Michigan)- App III
 TDS_W 2540C (TDS)- Appendix III

Q = MS/MSD volume provided

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-39	1-4-21	1250	GW	2,8		X	X	X	X							
2	MW-40		1155				X	X	X	X							
3	MW-41		1005				X	X	X	X							
4	MW-62		1345				X	X	X	X							
5	MW-63		900				X	X	X	X							
6	MW-64		1100				X	X	X	X							
7	MW-23		1130				X	X	X	X							
8	MW-28D		945				X	X	X	X							
9	MW-42		1025				X	X	X	X							
10	MW-43		1235				X	X	X	X							

Sampler(s) Please Print & Sign: Brian Hillin + HME Team

Shipment Method: Consult. Delivery

Required Turnaround Time: (Check Box) STD 10 Wk Devs 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Relinquished by: [Signature] Date: 1-4-21 Time: 1450

Received by: PM

Relinquished by: [Signature] Date: _____ Time: _____

Received by (Laboratory): PM Date: 1-4-21 Time: 14:50

Checked by (Laboratory): _____

Notes: NRG CCR] PRIVILEGED & CONFIDENTIAL

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
45713	0.40	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check list
45404	0.10	<input type="checkbox"/> Level III Str QC/Raw Data	<input type="checkbox"/> TRRP Level IV
44906	0.30	<input type="checkbox"/> Level IV SW843/CLP	
46525	0.20	<input type="checkbox"/> Other	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

HS21010047

WV

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COC ID: 231116

TRC Corporation
NRG WA Parish - Appendix III



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix III	A ICP_TW(B and Ca)- Appendix III
Work Order		Project Number		B 300_W(Cl, SO4)- Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C Sub_Fluoride (Sub Fluoride to ALS Michigan)- App III
Send Report To	Lori Burris	Invoice Attn	A/P	D TDS_W 2540C (TDS)- Appendix III
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77034	G $\text{O} = \text{MS/MSD volume provided}$
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	Mw-44	1-4-21	1130	Gw	2,8		X	X	X	X									
2	Mw-46R	↓	1035	↓	↓		X	X	X	X									
3	Mw-47		1230			X	X	X	X										
4	Mw-48		1140			X	X	X	X										
5	Mw-50		1315			X	X	X	X										
6	Mw-52		1230			X	X	X	X										
7	Mw-54		855			X	X	X	X										
8	Mw-55R		950			X	X	X	X										
9	Mw-58		855			X	X	X	X										
10	Mw-65		1050			X	X	X	X										

Sampler(s) Please Print & Sign <i>Brian Hillin & HME Team</i>		Shipment Method <i>Consult. Delivery</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>[Signature]</i>	Date: 1-4-21	Time: 1450	Received by: <i>PM</i>	Notes: NRG CCR PRIVILEGED & CONFIDENTIAL							
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>PM 1-4-21 14:50</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check list				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV				
						<input type="checkbox"/> Level IV SWB43/CLP					
						<input type="checkbox"/> Other					

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

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COC ID: 231117

ALS Project Manager:

HS21010047

TRC Corporation
NRG WA Parish - Appendix III





Customer Information		Project Information	
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix III
Work Order		Project Number	
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Lori Burris	Invoice Attn	A/P
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place
			Suite 101
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77034
Phone	(713) 244-1000	Phone	(713) 244-1000
Fax	(713) 244-1099	Fax	(713) 244-1099
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com


No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-36	1-4-21	1010	GW	2.8		X	X	X	X									
2	MW-37	↓	1230	↓	↓		X	X	X	X									
3	MW-38R		1310			X	X	X	X										
4	MW-60		915			X	X	X	X										
5	MW-61		1115			X	X	X	X										
6	DUP-01		1200			X	X	X	X										
7	DUP-02		1000			X	X	X	X										
8	FB-01		1140			X	X	X	X										
9																			
10																			


Sampler(s) Please Print & Sign <i>Brian Hillin & HMI Team</i>		Shipment Method Consult. Delivery		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Deys <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24-hour			Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 1-4-21	Time: 1450	Received by: <i>[Signature]</i>	Notes: NRG CCR PRIVILEGED & CONFIDENTIAL				
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TPRP Check list			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TPRP Level IV			
				<input type="checkbox"/> Level IV SW643/CLP				
				<input type="checkbox"/> Other				


Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 46600	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin		Date: 1-4-21
	Company: HMI		


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 46525	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin		Date: 1-4-21
	Company: HMI		


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21



1-Feb-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21010047**

Work Order: **21010335**

Dear Corey,

ALS Environmental received 28 samples on 06-Jan-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a light blue horizontal line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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Client: ALS Environmental
Project: HS21010047
Work Order: 21010335

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_210108C, 11A, 11B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21010335, 21010336					
Analyst Name: QN		Date 1/8-1/11/21	Reviewer Name: RM		Date: 1/8/21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < 1/2 MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER # ¹	DESCRIPTION		
1	No exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Client: ALS Environmental
 Project: HS21010047
 Work Order: 21010335

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21010335-01	HS21010047-01	Groundwater	MW-39	1/4/2021 12:50	1/6/2021 10:00	<input type="checkbox"/>
21010335-02	HS21010047-02	Groundwater	MW-40	1/4/2021 11:55	1/6/2021 10:00	<input type="checkbox"/>
21010335-03	HS21010047-03	Groundwater	MW-41	1/4/2021 10:05	1/6/2021 10:00	<input type="checkbox"/>
21010335-04	HS21010047-04	Groundwater	MW-62	1/4/2021 13:45	1/6/2021 10:00	<input type="checkbox"/>
21010335-05	HS21010047-05	Groundwater	MW-63	1/4/2021 09:00	1/6/2021 10:00	<input type="checkbox"/>
21010335-06	HS21010047-06	Groundwater	MW-64	1/4/2021 11:00	1/6/2021 10:00	<input type="checkbox"/>
21010335-07	HS21010047-07	Groundwater	MW-23	1/4/2021 11:30	1/6/2021 10:00	<input type="checkbox"/>
21010335-08	HS21010047-08	Groundwater	MW-28D	1/4/2021 09:45	1/6/2021 10:00	<input type="checkbox"/>
21010335-09	HS21010047-09	Groundwater	MW-42	1/4/2021 10:25	1/6/2021 10:00	<input type="checkbox"/>
21010335-10	HS21010047-10	Groundwater	MW-43	1/4/2021 12:35	1/6/2021 10:00	<input type="checkbox"/>
21010335-11	HS21010047-11	Groundwater	MW-44	1/4/2021 11:30	1/6/2021 10:00	<input type="checkbox"/>
21010335-12	HS21010047-12	Groundwater	MW-46R	1/4/2021 10:35	1/6/2021 10:00	<input type="checkbox"/>
21010335-13	HS21010047-13	Groundwater	MW-47	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010335-14	HS21010047-14	Groundwater	MW-48	1/4/2021 11:40	1/6/2021 10:00	<input type="checkbox"/>
21010335-15	HS21010047-15	Groundwater	MW-50	1/4/2021 13:15	1/6/2021 10:00	<input type="checkbox"/>
21010335-16	HS21010047-16	Groundwater	MW-52	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010335-17	HS21010047-17	Groundwater	MW-54	1/4/2021 08:55	1/6/2021 10:00	<input type="checkbox"/>
21010335-18	HS21010047-18	Groundwater	MW-55R	1/4/2021 09:50	1/6/2021 10:00	<input type="checkbox"/>
21010335-19	HS21010047-19	Groundwater	MW-58	1/4/2021 08:55	1/6/2021 10:00	<input type="checkbox"/>
21010335-20	HS21010047-20	Groundwater	MW-65	1/4/2021 10:50	1/6/2021 10:00	<input type="checkbox"/>
21010335-21	HS21010047-21	Groundwater	MW-36	1/4/2021 10:10	1/6/2021 10:00	<input type="checkbox"/>
21010335-22	HS21010047-22	Groundwater	MW-37	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010335-23	HS21010047-23	Groundwater	MW-38R	1/4/2021 13:10	1/6/2021 10:00	<input type="checkbox"/>
21010335-24	HS21010047-24	Groundwater	MW-60	1/4/2021 09:15	1/6/2021 10:00	<input type="checkbox"/>
21010335-25	HS21010047-25	Groundwater	MW-61	1/4/2021 11:15	1/6/2021 10:00	<input type="checkbox"/>
21010335-26	HS21010047-26	Groundwater	DUP-01	1/4/2021 12:00	1/6/2021 10:00	<input type="checkbox"/>
21010335-27	HS21010047-27	Groundwater	DUP-02	1/4/2021 10:00	1/6/2021 10:00	<input type="checkbox"/>
21010335-28	HS21010047-28	Water	FB-01	1/4/2021 11:40	1/6/2021 10:00	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21010047
WorkOrder: 21010335

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21010335
 Client: ALS Environmental
 Project: HS21010047

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R307611 **Test Name:** Fluoride

21010335-01A	HS21010047-01	Groundwater	1/4/2021 12:50:00 PM			1/8/2021 03:29 PM
21010335-02A	HS21010047-02		1/4/2021 11:55:00 AM			1/8/2021 03:29 PM
21010335-03A	HS21010047-03		1/4/2021 10:05:00 AM			1/8/2021 03:29 PM
21010335-04A	HS21010047-04		1/4/2021 1:45:00 PM			1/8/2021 03:29 PM
21010335-05A	HS21010047-05		1/4/2021 9:00:00 AM			1/8/2021 03:29 PM
21010335-06A	HS21010047-06		1/4/2021 11:00:00 AM			1/8/2021 03:29 PM

Work Order: 21010335
 Client: ALS Environmental
 Project: HS21010047

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R307694 Test Name: Fluoride

21010335-07A	HS21010047-07	Groundwater	1/4/2021 11:30:00 AM			1/11/2021 12:49 PM
21010335-08A	HS21010047-08		1/4/2021 9:45:00 AM			1/11/2021 12:49 PM
21010335-09A	HS21010047-09		1/4/2021 10:25:00 AM			1/11/2021 12:49 PM
21010335-10A	HS21010047-10		1/4/2021 12:35:00 PM			1/11/2021 12:49 PM
21010335-11A	HS21010047-11		1/4/2021 11:30:00 AM			1/11/2021 12:49 PM
21010335-12A	HS21010047-12		1/4/2021 10:35:00 AM			1/11/2021 12:49 PM
21010335-13A	HS21010047-13		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010335-14A	HS21010047-14		1/4/2021 11:40:00 AM			1/11/2021 12:49 PM
21010335-15A	HS21010047-15		1/4/2021 1:15:00 PM			1/11/2021 12:49 PM
21010335-16A	HS21010047-16		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010335-17A	HS21010047-17		1/4/2021 8:55:00 AM			1/11/2021 12:49 PM
21010335-18A	HS21010047-18		1/4/2021 9:50:00 AM			1/11/2021 12:49 PM
21010335-19A	HS21010047-19		1/4/2021 8:55:00 AM			1/11/2021 12:49 PM
21010335-20A	HS21010047-20		1/4/2021 10:50:00 AM			1/11/2021 12:49 PM
21010335-21A	HS21010047-21		1/4/2021 10:10:00 AM			1/11/2021 12:49 PM
21010335-22A	HS21010047-22		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010335-23A	HS21010047-23		1/4/2021 1:10:00 PM			1/11/2021 12:49 PM
21010335-24A	HS21010047-24		1/4/2021 9:15:00 AM			1/11/2021 12:49 PM
21010335-25A	HS21010047-25		1/4/2021 11:15:00 AM			1/11/2021 12:49 PM
21010335-26A	HS21010047-26		1/4/2021 12:00:00 PM			1/11/2021 12:49 PM

Batch ID R307709 Test Name: Fluoride

21010335-27A	HS21010047-27	Groundwater	1/4/2021 10:00:00 AM			1/11/2021 03:16 PM
21010335-28A	HS21010047-28	Water	1/4/2021 11:40:00 AM			1/11/2021 03:16 PM

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-01
Collection Date: 1/4/2021 12:50 PM

Work Order: 21010335
Lab ID: 21010335-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.10		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-02
Collection Date: 1/4/2021 11:55 AM

Work Order: 21010335
Lab ID: 21010335-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.11		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-03
Collection Date: 1/4/2021 10:05 AM

Work Order: 21010335
Lab ID: 21010335-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.15		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-04
Collection Date: 1/4/2021 01:45 PM

Work Order: 21010335
Lab ID: 21010335-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.17		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-05
Collection Date: 1/4/2021 09:00 AM

Work Order: 21010335
Lab ID: 21010335-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.11		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-06
Collection Date: 1/4/2021 11:00 AM

Work Order: 21010335
Lab ID: 21010335-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-07
Collection Date: 1/4/2021 11:30 AM

Work Order: 21010335
Lab ID: 21010335-07
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-08
Collection Date: 1/4/2021 09:45 AM

Work Order: 21010335
Lab ID: 21010335-08
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.35		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-09
Collection Date: 1/4/2021 10:25 AM

Work Order: 21010335
Lab ID: 21010335-09
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.60		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-10
Collection Date: 1/4/2021 12:35 PM

Work Order: 21010335
Lab ID: 21010335-10
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.61		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-11
Collection Date: 1/4/2021 11:30 AM

Work Order: 21010335
Lab ID: 21010335-11
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-12
Collection Date: 1/4/2021 10:35 AM

Work Order: 21010335
Lab ID: 21010335-12
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.40		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-13
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010335
Lab ID: 21010335-13
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.45		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-14
Collection Date: 1/4/2021 11:40 AM

Work Order: 21010335
Lab ID: 21010335-14
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.73		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-15
Collection Date: 1/4/2021 01:15 PM

Work Order: 21010335
Lab ID: 21010335-15
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.48		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-16
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010335
Lab ID: 21010335-16
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.53		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-17
Collection Date: 1/4/2021 08:55 AM

Work Order: 21010335
Lab ID: 21010335-17
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.52		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-18
Collection Date: 1/4/2021 09:50 AM

Work Order: 21010335
Lab ID: 21010335-18
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.74		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-19
Collection Date: 1/4/2021 08:55 AM

Work Order: 21010335
Lab ID: 21010335-19
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-20
Collection Date: 1/4/2021 10:50 AM

Work Order: 21010335
Lab ID: 21010335-20
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-21
Collection Date: 1/4/2021 10:10 AM

Work Order: 21010335
Lab ID: 21010335-21
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-22
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010335
Lab ID: 21010335-22
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.27		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-23
Collection Date: 1/4/2021 01:10 PM

Work Order: 21010335
Lab ID: 21010335-23
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.26		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-24
Collection Date: 1/4/2021 09:15 AM

Work Order: 21010335
Lab ID: 21010335-24
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-25
Collection Date: 1/4/2021 11:15 AM

Work Order: 21010335
Lab ID: 21010335-25
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.32		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-26
Collection Date: 1/4/2021 12:00 PM

Work Order: 21010335
Lab ID: 21010335-26
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-27
Collection Date: 1/4/2021 10:00 AM

Work Order: 21010335
Lab ID: 21010335-27
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 15:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010047
Sample ID: HS21010047-28
Collection Date: 1/4/2021 11:40 AM

Work Order: 21010335
Lab ID: 21010335-28
Matrix: WATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	1/11/2021 15:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21010335
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Fluoride	16984-48-8	0.080	0.080	0.058	0.10

Client: ALS Environmental
Work Order: 21010335
Project: HS21010047

QC BATCH REPORT

Batch ID: **R307611** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307611-R307611				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059427		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R307611-R307611				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059428		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.02	0.10	5	0	100	80-120	0			

MS		Sample ID: 21010335-05AMS				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID: HS21010047-05		Run ID: TITRATOR 1_210108C				SeqNo: 7059447		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.75	0.10	5	0.11	92.8	75-125	0			

MS		Sample ID: 21010336-05AMS				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059455		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.75	0.10	5	0.11	92.8	75-125	0			

MSD		Sample ID: 21010335-05AMSD				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID: HS21010047-05		Run ID: TITRATOR 1_210108C				SeqNo: 7059448		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.73	0.10	5	0.11	92.4	75-125	4.75	0.422	20	

MSD		Sample ID: 21010336-05AMSD				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059456		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.73	0.10	5	0.11	92.4	75-125	4.75	0.422	20	

The following samples were analyzed in this batch:

21010335-01A	21010335-02A	21010335-03A
21010335-04A	21010335-05A	21010335-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21010335
 Project: HS21010047

QC BATCH REPORT

Batch ID: **R307694** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307694-R307694				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A		SeqNo: 7062332		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride U 0.10

LCS		Sample ID: LCS-R307694-R307694				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A		SeqNo: 7062333		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 4.84 0.10 5 0 96.8 80-120 0

MS		Sample ID: 21010335-19AMS				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID: HS21010047-19		Run ID: TITRATOR 1_210111A		SeqNo: 7062347		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 0

MS		Sample ID: 21010336-19AMS				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A		SeqNo: 7062369		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 0

MSD		Sample ID: 21010335-19AMSD				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID: HS21010047-19		Run ID: TITRATOR 1_210111A		SeqNo: 7062348		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 5.19 0 20

MSD		Sample ID: 21010336-19AMSD				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A		SeqNo: 7062370		Prep Date:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 5.19 0 20

The following samples were analyzed in this batch:

21010335-07A	21010335-08A	21010335-09A
21010335-10A	21010335-11A	21010335-12A
21010335-13A	21010335-14A	21010335-15A
21010335-16A	21010335-17A	21010335-18A
21010335-19A	21010335-20A	21010335-21A
21010335-22A	21010335-23A	21010335-24A
21010335-25A	21010335-26A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21010335
 Project: HS21010047

QC BATCH REPORT

Batch ID: **R307709** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307709-R307709				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062834		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	U	0.10									

LCS		Sample ID: LCS-R307709-R307709				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062835		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	4.93	0.10	5	0	98.6	80-120	0				

MS		Sample ID: 21010331-01G MS				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062837		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5.02	0.10	5	0.08	98.8	75-125	0				

MSD		Sample ID: 21010331-01G MSD				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062838		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5	0.10	5	0.08	98.4	75-125	5.02	0.399	20		

The following samples were analyzed in this batch:

21010335-27A	21010335-28A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



21010335

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15434

SUBCONTRACT TO:

ALS Group USA, Corp.
3352 - 128th Ave
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21010047
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21010047-01	MW-39	Groundwater	04 Jan 2021 12:50
	Fluoride by ISE 4500			12 Jan 2021
2.	HS21010047-02	MW-40	Groundwater	04 Jan 2021 11:55
	Fluoride by ISE 4500			12 Jan 2021
3.	HS21010047-03	MW-41	Groundwater	04 Jan 2021 10:05
	Fluoride by ISE 4500			12 Jan 2021
4.	HS21010047-04	MW-62	Groundwater	04 Jan 2021 13:45
	Fluoride by ISE 4500			12 Jan 2021
5.	HS21010047-05	MW-63	Groundwater	04 Jan 2021 09:00
	Fluoride by ISE 4500			12 Jan 2021
6.	HS21010047-06	MW-64	Groundwater	04 Jan 2021 11:00
	Fluoride by ISE 4500			12 Jan 2021
7.	HS21010047-07	MW-23	Groundwater	04 Jan 2021 11:30
	Fluoride by ISE 4500			12 Jan 2021
8.	HS21010047-08	MW-28D	Groundwater	04 Jan 2021 09:45
	Fluoride by ISE 4500			12 Jan 2021
9.	HS21010047-09	MW-42	Groundwater	04 Jan 2021 10:25





Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15434

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	Fluoride by ISE 4500			12 Jan 2021
10.	HS21010047-10	MW-43	Groundwater	04 Jan 2021 12:35
	Fluoride by ISE 4500			12 Jan 2021
11.	HS21010047-11	MW-44	Groundwater	04 Jan 2021 11:30
	Fluoride by ISE 4500			12 Jan 2021
12.	HS21010047-12	MW-46R	Groundwater	04 Jan 2021 10:35
	Fluoride by ISE 4500			12 Jan 2021
13.	HS21010047-13	MW-47	Groundwater	04 Jan 2021 12:30
	Fluoride by ISE 4500			12 Jan 2021
14.	HS21010047-14	MW-48	Groundwater	04 Jan 2021 11:40
	Fluoride by ISE 4500			12 Jan 2021
15.	HS21010047-15	MW-50	Groundwater	04 Jan 2021 13:15
	Fluoride by ISE 4500			12 Jan 2021
16.	HS21010047-16	MW-52	Groundwater	04 Jan 2021 12:30
	Fluoride by ISE 4500			12 Jan 2021
17.	HS21010047-17	MW-54	Groundwater	04 Jan 2021 08:55
	Fluoride by ISE 4500			12 Jan 2021
18.	HS21010047-18	MW-55R	Groundwater	04 Jan 2021 09:50
	Fluoride by ISE 4500			12 Jan 2021
19.	HS21010047-19	MW-58	Groundwater	04 Jan 2021 08:55
	Fluoride by ISE 4500			12 Jan 2021
20.	HS21010047-20	MW-65	Groundwater	04 Jan 2021 10:50
	Fluoride by ISE 4500			12 Jan 2021
21.	HS21010047-21	MW-36	Groundwater	04 Jan 2021 10:10
	Fluoride by ISE 4500			12 Jan 2021
22.	HS21010047-22	MW-37	Groundwater	04 Jan 2021 12:30
	Fluoride by ISE 4500			12 Jan 2021
23.	HS21010047-23	MW-38R	Groundwater	04 Jan 2021 13:10
	Fluoride by ISE 4500			12 Jan 2021
24.	HS21010047-24	MW-60	Groundwater	04 Jan 2021 09:15
	Fluoride by ISE 4500			12 Jan 2021



Subcontract Chain of Custody



SAMPLING STATE: Texas

COC ID: 15434

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
25.	HS21010047-25	MW-61	Groundwater	04 Jan 2021 11:15
	Fluoride by ISE 4500			12 Jan 2021
26.	HS21010047-26	DUP-01	Groundwater	04 Jan 2021 12:00
	Fluoride by ISE 4500			12 Jan 2021
27.	HS21010047-27	DUP-02	Groundwater	04 Jan 2021 10:00
	Fluoride by ISE 4500			12 Jan 2021
28.	HS21010047-28	FB-01	Water	04 Jan 2021 11:40
	Fluoride by ISE 4500			12 Jan 2021

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 HS21010047-05 & HS21010047-19 = MS/MSD.
 Only use client's samples (HS21010447) for Batch MS/MSD

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: 
 Received By: 
 Cooler ID(s): _____

Date/Time: 11/5/2021 1800
 Date/Time: 11/6/21 1000
 Temperature(s): 121 2.8°C pH24



Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **06-Jan-21 10:00**

Work Order: **21010335**

Received by: **DS**

Checklist completed by **Diane Shaw**

07-Jan-21

Reviewed by: **Chad Whelton**

07-Jan-21

eSignature

Date

eSignature

Date

Matrices: Groundwater, Water

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 2.8/2.8 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 1/7/2021 8:23:59 AM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

February 1, 2021

Lori Burris
TRC Corporation
16350 Park Ten Place
Suite 101
Houston, TX 77084

Work Order: **HS21010048**

Laboratory Results for: **NRG WA Parish - Appendix IV**

Dear Lori Burris,

ALS Environmental received 28 sample(s) on Jan 04, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group			LRC Date: 02/01/2021				
Project Name: NRG WA Parish - Appendix IV			Laboratory Job Number: HS21010048				
Reviewer Name: Corey Grandits			Prep Batch Number: 161314,161316,161368,161369,R376160,R377213				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				2
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 02/01/2021			
Project Name: NRG WA Parish - Appendix IV				Laboratory Job Number: HS21010048			
Reviewer Name: Corey Grandits				Prep Batch Number: 161314,161316,161368,161369,R376160,R377213			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 02/01/2021
Project Name: NRG WA Parish - Appendix IV	Laboratory Job Number: HS21010048
Reviewer Name: Corey Grandits	Prep Batch Number: 161314,161316,161368,161369,R376160,R377213

ER# ⁵	Description
1	<p>Batch 161314, Metals Method SW6020, sample MW-58, MSD recovered outside the control limit for Barium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 161368, Mercury Method SW7470A, sample MW-63, MS and MSD recovered outside the control limit due to suspect matrix effect.</p>
2	<p>The analysis for Fluoride was subcontracted to ALS Holland, MI. Final report attached.</p> <p>The analysis for Rad-226/228 was subcontracted to ALS Fort Collins, CO. Final report attached.</p>
3	See Run Log and CCB Exceptions Report.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
 NA = Not Applicable;
 NR = Not Reviewed;
 R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21010048
 Start Date: 08-Jan-2021

End Date: 08-Jan-2021

Run ID:ICPMS05_376081
 Instrument:ICPMS05
 Method:SW6020

Sample No.	D/F	Time	FileID	Analytes
LLICV2	1	08-Jan-2021 11:27	021LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV5	1	08-Jan-2021 11:29	022LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICB	1	08-Jan-2021 11:31	023_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICV	1	08-Jan-2021 11:33	024_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	08-Jan-2021 11:37	025ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	08-Jan-2021 11:39	026ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 1	1	08-Jan-2021 12:04	035_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 1	1	08-Jan-2021 12:06	036_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 2	1	08-Jan-2021 12:32	045_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 2	1	08-Jan-2021 12:34	046_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 3	1	08-Jan-2021 12:56	057_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 3	1	08-Jan-2021 12:58	058_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 4	1	08-Jan-2021 13:24	070_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 4	1	08-Jan-2021 13:36	072_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 5	1	08-Jan-2021 14:07	083_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 5	1	08-Jan-2021 14:09	084_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 6	1	08-Jan-2021 14:32	095_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 6	1	08-Jan-2021 14:34	096_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 7	1	08-Jan-2021 14:55	098_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 7	1	08-Jan-2021 15:30	109_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 8	1	08-Jan-2021 15:49	112_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 8	1	08-Jan-2021 16:54	123_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 9	1	08-Jan-2021 17:04	126_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 9	1	08-Jan-2021 17:26	137_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 10	1	08-Jan-2021 17:28	138_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 10	1	08-Jan-2021 20:11	142_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 11	1	08-Jan-2021 20:13	143_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 11	1	08-Jan-2021 20:25	149_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 12	1	08-Jan-2021 20:27	150_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICCV2	1	08-Jan-2021 20:53	163LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICCV5	1	08-Jan-2021 20:55	164LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICCV 12	1	08-Jan-2021 20:57	165_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICCB 13	1	08-Jan-2021 20:59	166_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 14	1	08-Jan-2021 21:13	173_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 13	1	08-Jan-2021 21:15	174_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 14	1	08-Jan-2021 21:37	185_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 15	1	08-Jan-2021 21:39	186_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MBLK-161314	1	08-Jan-2021 21:41	187SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-161314	1	08-Jan-2021 21:43	188SMPL.d	AS BA BE CD CO CR LI MO PB SB SE
MW-58	1	08-Jan-2021 21:45	189SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58SD	5	08-Jan-2021 21:47	190SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58MS	1	08-Jan-2021 21:49	191SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58MSD	1	08-Jan-2021 21:51	192SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58PDS	1	08-Jan-2021 21:53	193SMPL.d	BA BE CD CO CR MO PB SB TL
CCV 15	1	08-Jan-2021 21:55	194_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 16	1	08-Jan-2021 21:57	195_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-36	1	08-Jan-2021 21:59	196SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-37	1	08-Jan-2021 22:01	197SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-38R	1	08-Jan-2021 22:03	198SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-60	1	08-Jan-2021 22:05	199SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-61	1	08-Jan-2021 22:07	200SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048
Start Date: 08-Jan-2021 End Date: 08-Jan-2021

Run ID: ICPMS05_376081
Instrument: ICPMS05
Method: SW6020

Sample No.	D/F	Time	FileID	Analytes
DUP-01	1	08-Jan-2021 22:09	201SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
DUP-02	1	08-Jan-2021 22:11	202SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
FB-01	1	08-Jan-2021 22:13	203SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 16	1	08-Jan-2021 22:19	206_CC.V.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 17	1	08-Jan-2021 22:21	207_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 17	1	08-Jan-2021 22:50	217_CC.V.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 18	1	08-Jan-2021 22:52	218_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 18	1	08-Jan-2021 23:21	229_CC.V.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 19	1	08-Jan-2021 23:23	230_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21010048
 Start Date: 11-Jan-2021

End Date: 12-Jan-2021

Run ID:ICPMS05_376125
 Instrument:ICPMS05
 Method:SW6020

Sample No.	D/F	Time	FileID	Analytes
ICV	1	11-Jan-2021 13:24	022_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV2	1	11-Jan-2021 13:26	023LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV5	1	11-Jan-2021 13:28	024LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICB	1	11-Jan-2021 13:30	025_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	11-Jan-2021 13:33	026ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	11-Jan-2021 13:35	027ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 1	1	11-Jan-2021 13:40	029_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 1	1	11-Jan-2021 13:42	030_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 2	1	11-Jan-2021 14:04	041_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 2	1	11-Jan-2021 14:06	042_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-161314	1	11-Jan-2021 14:18	048SMPL.d	TL
CCV 3	1	11-Jan-2021 14:28	053_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 3	1	11-Jan-2021 14:30	054_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 4	1	11-Jan-2021 14:49	063_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 5	1	11-Jan-2021 15:23	075_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 4	1	11-Jan-2021 15:25	076_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 6	1	11-Jan-2021 15:51	086_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 5	1	11-Jan-2021 15:53	087_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 7	1	11-Jan-2021 16:15	096_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 6	1	11-Jan-2021 16:17	097_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 8	1	11-Jan-2021 16:41	108_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 7	1	11-Jan-2021 16:43	109_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 9	1	11-Jan-2021 17:08	120_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 8	1	11-Jan-2021 17:10	121_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 10	1	11-Jan-2021 17:32	132_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 9	1	11-Jan-2021 17:34	133_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 11	1	11-Jan-2021 17:56	144_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 10	1	11-Jan-2021 17:58	145_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 12	1	11-Jan-2021 20:41	150_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 11	1	11-Jan-2021 20:43	151_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 13	1	11-Jan-2021 20:55	157_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 12	1	11-Jan-2021 20:57	158_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 14	1	11-Jan-2021 21:12	166_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 13	1	11-Jan-2021 21:14	167_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 15	1	11-Jan-2021 21:22	171_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 14	1	11-Jan-2021 21:24	172_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 16	1	11-Jan-2021 21:36	178_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 15	1	11-Jan-2021 21:38	179_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 17	1	11-Jan-2021 21:54	187_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 16	1	11-Jan-2021 21:56	188_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 18	1	11-Jan-2021 22:11	194_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 17	1	11-Jan-2021 22:13	195_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 19	1	11-Jan-2021 22:29	203_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 18	1	11-Jan-2021 22:31	204_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 20	1	11-Jan-2021 22:52	215_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 19	1	11-Jan-2021 22:54	216_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MBLK-161316	1	11-Jan-2021 23:14	226SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 21	1	11-Jan-2021 23:16	227_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 20	1	11-Jan-2021 23:18	228_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-161316	1	11-Jan-2021 23:20	229SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63	1	11-Jan-2021 23:22	230SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21010048
 Start Date: 11-Jan-2021 End Date: 12-Jan-2021

Run ID: ICPMS05_376125
 Instrument: ICPMS05
 Method: SW6020

Sample No.	D/F	Time	FileID	Analytes
MW-63SD	5	11-Jan-2021 23:24	231SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63MS	1	11-Jan-2021 23:26	232SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63MSD	1	11-Jan-2021 23:28	233SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63PDS	1	11-Jan-2021 23:30	234SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 22	1	11-Jan-2021 23:32	235_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 21	1	11-Jan-2021 23:33	236_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-39	1	11-Jan-2021 23:35	237SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-40	1	11-Jan-2021 23:37	238SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-41	1	11-Jan-2021 23:39	239SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-62	1	11-Jan-2021 23:41	240SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-64	1	11-Jan-2021 23:43	241SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-23	1	11-Jan-2021 23:45	242SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-28D	1	11-Jan-2021 23:47	243SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-42	1	11-Jan-2021 23:49	244SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-43	1	11-Jan-2021 23:51	245SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-44	1	11-Jan-2021 23:53	246SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 23	1	11-Jan-2021 23:55	247_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 22	1	11-Jan-2021 23:57	248_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-46R	1	11-Jan-2021 23:59	249SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-47	1	12-Jan-2021 00:01	250SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-48	1	12-Jan-2021 00:03	251SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-50	1	12-Jan-2021 00:05	252SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-52	1	12-Jan-2021 00:07	253SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-54	1	12-Jan-2021 00:09	254SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-55R	1	12-Jan-2021 00:11	255SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-65	1	12-Jan-2021 00:13	256SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 24	1	12-Jan-2021 00:19	259_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 23	1	12-Jan-2021 00:21	260_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 25	1	12-Jan-2021 00:23	261_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 24	1	12-Jan-2021 00:25	262_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV2	1	12-Jan-2021 00:29	264LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV5	1	12-Jan-2021 00:31	265LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	12-Jan-2021 00:33	266ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	12-Jan-2021 00:35	267ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Run ID:ICPMS05_376081
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 1	08-Jan-2021 12:06	5914112	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.345	0.2	2
CCB 2	08-Jan-2021 12:34	5914122	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.328	0.2	2
CCB 3	08-Jan-2021 12:58	5914148	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	0.62	0.6	5
	Thallium	0.401	0.2	2
CCB 4	08-Jan-2021 13:24	5914134	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.364	0.2	2
CCB 5	08-Jan-2021 14:09	5914170	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.36	0.2	2
CCB 6	08-Jan-2021 14:34	5914187	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	0.666	0.6	5
	Thallium	0.389	0.2	2
CCB 10	08-Jan-2021 17:28	5914349	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	0.61	0.6	5
	Thallium	0.38	0.2	2
CCB 11	08-Jan-2021 20:13	5914353	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.424	0.2	2
CCB 12	08-Jan-2021 20:27	5914360	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.402	0.2	2
ICCB 13	08-Jan-2021 20:59	5914416	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.483	0.2	2
CCB 15	08-Jan-2021 21:39	5914436	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.41	0.2	2
CCB 16	08-Jan-2021 21:57	5914456	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.688	0.4	2
	Molybdenum	0.685	0.6	5
	Thallium	0.393	0.2	2
CCB 17	08-Jan-2021 22:21	5914447	1	ug/L
	Analyte	Result	MDL	Report Limit

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Run ID:ICPMS05_376081
Instrument:ICPMS05
Method:SW6020

		Thallium	0.364	0.2	2
CCB 18	Date: 08-Jan-2021 22:52	Seq: 5914489		D/F: 1	Units: ug/L
		Analyte	Result	MDL	Report Limit
		Thallium	0.413	0.2	2
CCB 19	Date: 08-Jan-2021 23:23	Seq: 5914501		D/F: 1	Units: ug/L
		Analyte	Result	MDL	Report Limit
		Thallium	0.369	0.2	2

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Run ID:ICPMS05_376125
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 1	11-Jan-2021 13:42	5915030	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	1.08	0.6	5
	Thallium	0.452	0.2	2
CCB 2	11-Jan-2021 14:06	5915042	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	0.687	0.6	5
	Thallium	0.435	0.2	2
CCB 3	11-Jan-2021 14:30	5915165	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.412	0.2	2
CCB 4	11-Jan-2021 15:25	5915286	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	1.406	0.4	2
	Molybdenum	2.095	0.6	5
	Selenium	1.342	1.1	2
	Thallium	0.431	0.2	2
CCB 5	11-Jan-2021 15:53	5915433	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	1.339	0.4	2
	Molybdenum	0.793	0.6	5
	Selenium	1.323	1.1	2
	Thallium	0.256	0.2	2
CCB 6	11-Jan-2021 16:17	5915547	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.971	0.4	2
	Molybdenum	1.12	0.6	5
	Thallium	0.262	0.2	2
CCB 7	11-Jan-2021 16:43	5915559	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.782	0.4	2
	Molybdenum	1.239	0.6	5
	Thallium	0.252	0.2	2
CCB 8	11-Jan-2021 17:10	5915571	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	1.07	0.4	2
	Molybdenum	0.746	0.6	5
	Thallium	0.263	0.2	2
CCB 9	11-Jan-2021 17:34	5915583	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.745	0.4	2
	Molybdenum	0.632	0.6	5
	Thallium	0.275	0.2	2
CCB 10	11-Jan-2021 17:58	5915595	1	ug/L
	Analyte	Result	MDL	Report Limit

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Run ID:ICPMS05_376125
Instrument:ICPMS05
Method:SW6020

CCB	Date	Seq	D/F	Units
CCB 21	11-Jan-2021 23:33	5915685	1	ug/L
	Analyte	Result	MDL	Report Limit
	Molybdenum	0.642	0.6	5
	Thallium	0.41	0.2	2
CCB 22	11-Jan-2021 23:57	5915697	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.385	0.2	2
CCB 23	12-Jan-2021 00:21	5915709	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.374	0.2	2
CCB 24	12-Jan-2021 00:25	5915711	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.39	0.2	2

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21010048

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21010048-01	MW-39	Groundwater		04-Jan-2021 12:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-02	MW-40	Groundwater		04-Jan-2021 11:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-03	MW-41	Groundwater		04-Jan-2021 10:05	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-04	MW-62	Groundwater		04-Jan-2021 13:45	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-05	MW-63	Groundwater		04-Jan-2021 09:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-06	MW-64	Groundwater		04-Jan-2021 11:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-07	MW-23	Groundwater		04-Jan-2021 11:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-08	MW-28D	Groundwater		04-Jan-2021 09:45	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-09	MW-42	Groundwater		04-Jan-2021 10:25	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-10	MW-43	Groundwater		04-Jan-2021 12:35	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-11	MW-44	Groundwater		04-Jan-2021 11:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-12	MW-46R	Groundwater		04-Jan-2021 10:35	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-13	MW-47	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-14	MW-48	Groundwater		04-Jan-2021 11:40	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-15	MW-50	Groundwater		04-Jan-2021 13:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-16	MW-52	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-17	MW-54	Groundwater		04-Jan-2021 08:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-18	MW-55R	Groundwater		04-Jan-2021 09:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-19	MW-58	Groundwater		04-Jan-2021 08:55	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-20	MW-65	Groundwater		04-Jan-2021 10:50	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-21	MW-36	Groundwater		04-Jan-2021 10:10	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-22	MW-37	Groundwater		04-Jan-2021 12:30	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-23	MW-38R	Groundwater		04-Jan-2021 13:10	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-24	MW-60	Groundwater		04-Jan-2021 09:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-25	MW-61	Groundwater		04-Jan-2021 11:15	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-26	DUP-01	Groundwater		04-Jan-2021 12:00	04-Jan-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21010048

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21010048-27	DUP-02	Groundwater		04-Jan-2021 10:00	04-Jan-2021 14:50	<input type="checkbox"/>
HS21010048-28	FB-01	Water		04-Jan-2021 11:40	04-Jan-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-39
 Collection Date: 04-Jan-2021 12:50

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:35
Arsenic	0.000836	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:35
Barium	0.141		0.00190	0.00400	mg/L	1	11-Jan-2021 23:35
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:35
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:35
Chromium	0.00197	J	0.000400	0.00400	mg/L	1	11-Jan-2021 23:35
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:35
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:35
Lithium	0.0347		0.00100	0.00500	mg/L	1	11-Jan-2021 23:35
Molybdenum	0.00335	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:35
Selenium	0.00157	J	0.00110	0.00200	mg/L	1	11-Jan-2021 23:35
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:35
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	0.0000760	J	0.0000300	0.000200	mg/L	1	07-Jan-2021 15:16
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-40
 Collection Date: 04-Jan-2021 11:55

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:37
Arsenic	0.00103	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:37
Barium	0.570		0.00190	0.00400	mg/L	1	11-Jan-2021 23:37
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:37
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:37
Chromium	0.000800	J	0.000400	0.00400	mg/L	1	11-Jan-2021 23:37
Cobalt	0.000360	J	0.000200	0.00500	mg/L	1	11-Jan-2021 23:37
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:37
Lithium	0.0370		0.00100	0.00500	mg/L	1	11-Jan-2021 23:37
Molybdenum	0.00108	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:37
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:37
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:37
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:18
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-41
 Collection Date: 04-Jan-2021 10:05

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:39
Arsenic	0.000624	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:39
Barium	0.257		0.00190	0.00400	mg/L	1	11-Jan-2021 23:39
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:39
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:39
Chromium	0.000474	J	0.000400	0.00400	mg/L	1	11-Jan-2021 23:39
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:39
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:39
Lithium	0.0281		0.00100	0.00500	mg/L	1	11-Jan-2021 23:39
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	11-Jan-2021 23:39
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:39
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:39
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:20
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-62
 Collection Date: 04-Jan-2021 13:45

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:41
Arsenic	0.000852	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:41
Barium	0.274		0.00190	0.00400	mg/L	1	11-Jan-2021 23:41
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:41
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:41
Chromium	0.00279	J	0.000400	0.00400	mg/L	1	11-Jan-2021 23:41
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:41
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:41
Lithium	0.0420		0.00100	0.00500	mg/L	1	11-Jan-2021 23:41
Molybdenum	0.000942	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:41
Selenium	0.00141	J	0.00110	0.00200	mg/L	1	11-Jan-2021 23:41
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:41
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:21
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-63
 Collection Date: 04-Jan-2021 09:00

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:22
Arsenic	0.00208		0.000400	0.00200	mg/L	1	11-Jan-2021 23:22
Barium	0.0632		0.00190	0.00400	mg/L	1	11-Jan-2021 23:22
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:22
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:22
Chromium	0.0121		0.000400	0.00400	mg/L	1	11-Jan-2021 23:22
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:22
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:22
Lithium	0.0260		0.00100	0.00500	mg/L	1	11-Jan-2021 23:22
Molybdenum	0.00111	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:22
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:22
Thallium	0.000326	J	0.000200	0.00200	mg/L	1	11-Jan-2021 23:22
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	0.000335		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-64
 Collection Date: 04-Jan-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:43
Arsenic	0.000666	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:43
Barium	0.277		0.00190	0.00400	mg/L	1	11-Jan-2021 23:43
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:43
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:43
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:43
Cobalt	0.000958	J	0.000200	0.00500	mg/L	1	11-Jan-2021 23:43
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:43
Lithium	0.0301		0.00100	0.00500	mg/L	1	11-Jan-2021 23:43
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	11-Jan-2021 23:43
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:43
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:43
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:23
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-23
 Collection Date: 04-Jan-2021 11:30

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:45
Arsenic	0.000722	J	0.000400	0.00200	mg/L	1	11-Jan-2021 23:45
Barium	0.0734		0.00190	0.00400	mg/L	1	11-Jan-2021 23:45
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:45
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:45
Chromium	0.301		0.000400	0.00400	mg/L	1	11-Jan-2021 23:45
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:45
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:45
Lithium	0.0656		0.00100	0.00500	mg/L	1	11-Jan-2021 23:45
Molybdenum	0.00443	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:45
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:45
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:45
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-28D
 Collection Date: 04-Jan-2021 09:45

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:47
Arsenic	0.00990		0.000400	0.00200	mg/L	1	11-Jan-2021 23:47
Barium	0.157		0.00190	0.00400	mg/L	1	11-Jan-2021 23:47
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:47
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:47
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:47
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:47
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:47
Lithium	0.0234		0.00100	0.00500	mg/L	1	11-Jan-2021 23:47
Molybdenum	0.00149	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:47
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:47
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:47
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:26
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-42
 Collection Date: 04-Jan-2021 10:25

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:49
Arsenic	0.0443		0.000400	0.00200	mg/L	1	11-Jan-2021 23:49
Barium	0.0460		0.00190	0.00400	mg/L	1	11-Jan-2021 23:49
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:49
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:49
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:49
Cobalt	0.000440	J	0.000200	0.00500	mg/L	1	11-Jan-2021 23:49
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:49
Lithium	0.0308		0.00100	0.00500	mg/L	1	11-Jan-2021 23:49
Molybdenum	0.00603		0.000600	0.00500	mg/L	1	11-Jan-2021 23:49
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:49
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:49
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:28
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-43
 Collection Date: 04-Jan-2021 12:35

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:51
Arsenic	0.0543		0.000400	0.00200	mg/L	1	11-Jan-2021 23:51
Barium	0.105		0.00190	0.00400	mg/L	1	11-Jan-2021 23:51
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:51
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:51
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:51
Cobalt	0.000235	J	0.000200	0.00500	mg/L	1	11-Jan-2021 23:51
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:51
Lithium	0.0354		0.00100	0.00500	mg/L	1	11-Jan-2021 23:51
Molybdenum	0.00537		0.000600	0.00500	mg/L	1	11-Jan-2021 23:51
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:51
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:51
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:30
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-44
 Collection Date: 04-Jan-2021 11:30

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:53
Arsenic	0.00676		0.000400	0.00200	mg/L	1	11-Jan-2021 23:53
Barium	0.103		0.00190	0.00400	mg/L	1	11-Jan-2021 23:53
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:53
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:53
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:53
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:53
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:53
Lithium	0.0323		0.00100	0.00500	mg/L	1	11-Jan-2021 23:53
Molybdenum	0.00739		0.000600	0.00500	mg/L	1	11-Jan-2021 23:53
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:53
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:53
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:31
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-46R
 Collection Date: 04-Jan-2021 10:35

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	11-Jan-2021 23:59
Arsenic	0.0112		0.000400	0.00200	mg/L	1	11-Jan-2021 23:59
Barium	0.201		0.00190	0.00400	mg/L	1	11-Jan-2021 23:59
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:59
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:59
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	11-Jan-2021 23:59
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	11-Jan-2021 23:59
Lead	< 0.000600		0.000600	0.00200	mg/L	1	11-Jan-2021 23:59
Lithium	0.0247		0.00100	0.00500	mg/L	1	11-Jan-2021 23:59
Molybdenum	0.00162	J	0.000600	0.00500	mg/L	1	11-Jan-2021 23:59
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	11-Jan-2021 23:59
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	11-Jan-2021 23:59
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:46
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-47
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:01
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:01
Barium	0.190		0.00190	0.00400	mg/L	1	12-Jan-2021 00:01
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:01
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:01
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:01
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	12-Jan-2021 00:01
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:01
Lithium	0.0311		0.00100	0.00500	mg/L	1	12-Jan-2021 00:01
Molybdenum	0.00163	J	0.000600	0.00500	mg/L	1	12-Jan-2021 00:01
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:01
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:01
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:47
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-48
 Collection Date: 04-Jan-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:03
Arsenic	0.0237		0.000400	0.00200	mg/L	1	12-Jan-2021 00:03
Barium	0.0671		0.00190	0.00400	mg/L	1	12-Jan-2021 00:03
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:03
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:03
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:03
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	12-Jan-2021 00:03
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:03
Lithium	0.0306		0.00100	0.00500	mg/L	1	12-Jan-2021 00:03
Molybdenum	0.00783		0.000600	0.00500	mg/L	1	12-Jan-2021 00:03
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:03
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:03
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:49
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-50
 Collection Date: 04-Jan-2021 13:15

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:05
Arsenic	0.00998		0.000400	0.00200	mg/L	1	12-Jan-2021 00:05
Barium	0.180		0.00190	0.00400	mg/L	1	12-Jan-2021 00:05
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:05
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:05
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:05
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	12-Jan-2021 00:05
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:05
Lithium	0.0362		0.00100	0.00500	mg/L	1	12-Jan-2021 00:05
Molybdenum	0.00238	J	0.000600	0.00500	mg/L	1	12-Jan-2021 00:05
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:05
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:05
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:51
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-52
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:07
Arsenic	0.0276		0.000400	0.00200	mg/L	1	12-Jan-2021 00:07
Barium	0.0583		0.00190	0.00400	mg/L	1	12-Jan-2021 00:07
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:07
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:07
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:07
Cobalt	0.00109	J	0.000200	0.00500	mg/L	1	12-Jan-2021 00:07
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:07
Lithium	0.0532		0.00100	0.00500	mg/L	1	12-Jan-2021 00:07
Molybdenum	0.00359	J	0.000600	0.00500	mg/L	1	12-Jan-2021 00:07
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:07
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:07
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:52
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-54
 Collection Date: 04-Jan-2021 08:55

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:09
Arsenic	0.00531		0.000400	0.00200	mg/L	1	12-Jan-2021 00:09
Barium	0.0890		0.00190	0.00400	mg/L	1	12-Jan-2021 00:09
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:09
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:09
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:09
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	12-Jan-2021 00:09
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:09
Lithium	0.0304		0.00100	0.00500	mg/L	1	12-Jan-2021 00:09
Molybdenum	0.00264	J	0.000600	0.00500	mg/L	1	12-Jan-2021 00:09
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:09
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:09
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:54
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-55R
 Collection Date: 04-Jan-2021 09:50

ANALYTICAL REPORT

WorkOrder:HS21010048
 Lab ID:HS21010048-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:11
Arsenic	0.0219		0.000400	0.00200	mg/L	1	12-Jan-2021 00:11
Barium	0.0747		0.00190	0.00400	mg/L	1	12-Jan-2021 00:11
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:11
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:11
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	12-Jan-2021 00:11
Cobalt	0.000563	J	0.000200	0.00500	mg/L	1	12-Jan-2021 00:11
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:11
Lithium	0.0401		0.00100	0.00500	mg/L	1	12-Jan-2021 00:11
Molybdenum	0.00747		0.000600	0.00500	mg/L	1	12-Jan-2021 00:11
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:11
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:11
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 15:56
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-58
 Collection Date: 04-Jan-2021 08:55

ANALYTICAL REPORT

WorkOrder:HS21010048
 Lab ID:HS21010048-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 21:45
Arsenic	0.0111		0.000400	0.00200	mg/L	1	08-Jan-2021 21:45
Barium	0.208		0.00190	0.00400	mg/L	1	08-Jan-2021 21:45
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 21:45
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 21:45
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 21:45
Cobalt	0.000481	J	0.000200	0.00500	mg/L	1	08-Jan-2021 21:45
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 21:45
Lithium	0.0394		0.00100	0.00500	mg/L	1	08-Jan-2021 21:45
Molybdenum	0.00276	J	0.000600	0.00500	mg/L	1	08-Jan-2021 21:45
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 21:45
Thallium	0.000500	J	0.000200	0.00200	mg/L	1	08-Jan-2021 21:45
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:12
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-65
 Collection Date: 04-Jan-2021 10:50

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	12-Jan-2021 00:13
Arsenic	0.000852	J	0.000400	0.00200	mg/L	1	12-Jan-2021 00:13
Barium	0.0488		0.00190	0.00400	mg/L	1	12-Jan-2021 00:13
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:13
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:13
Chromium	0.00284	J	0.000400	0.00400	mg/L	1	12-Jan-2021 00:13
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	12-Jan-2021 00:13
Lead	< 0.000600		0.000600	0.00200	mg/L	1	12-Jan-2021 00:13
Lithium	0.0308		0.00100	0.00500	mg/L	1	12-Jan-2021 00:13
Molybdenum	0.00374	J	0.000600	0.00500	mg/L	1	12-Jan-2021 00:13
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	12-Jan-2021 00:13
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	12-Jan-2021 00:13
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:22
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-36
 Collection Date: 04-Jan-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 21:59
Arsenic	0.000458	J	0.000400	0.00200	mg/L	1	08-Jan-2021 21:59
Barium	0.0314		0.00190	0.00400	mg/L	1	08-Jan-2021 21:59
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 21:59
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 21:59
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 21:59
Cobalt	0.000657	J	0.000200	0.00500	mg/L	1	08-Jan-2021 21:59
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 21:59
Lithium	0.0361		0.00100	0.00500	mg/L	1	08-Jan-2021 21:59
Molybdenum	0.000768	J	0.000600	0.00500	mg/L	1	08-Jan-2021 21:59
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 21:59
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 21:59
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	0.000463		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:23
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-37
 Collection Date: 04-Jan-2021 12:30

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:01
Arsenic	0.000704	J	0.000400	0.00200	mg/L	1	08-Jan-2021 22:01
Barium	0.0163		0.00190	0.00400	mg/L	1	08-Jan-2021 22:01
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:01
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:01
Chromium	0.00129	J	0.000400	0.00400	mg/L	1	08-Jan-2021 22:01
Cobalt	0.000325	J	0.000200	0.00500	mg/L	1	08-Jan-2021 22:01
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:01
Lithium	0.0283		0.00100	0.00500	mg/L	1	08-Jan-2021 22:01
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	08-Jan-2021 22:01
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:01
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:01
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:25
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-38R
 Collection Date: 04-Jan-2021 13:10

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:03
Arsenic	0.00595		0.000400	0.00200	mg/L	1	08-Jan-2021 22:03
Barium	0.0248		0.00190	0.00400	mg/L	1	08-Jan-2021 22:03
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:03
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:03
Chromium	0.000807	J	0.000400	0.00400	mg/L	1	08-Jan-2021 22:03
Cobalt	0.00224	J	0.000200	0.00500	mg/L	1	08-Jan-2021 22:03
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:03
Lithium	0.0342		0.00100	0.00500	mg/L	1	08-Jan-2021 22:03
Molybdenum	0.00127	J	0.000600	0.00500	mg/L	1	08-Jan-2021 22:03
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:03
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:03
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:27
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-60
 Collection Date: 04-Jan-2021 09:15

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Jan-2021		Analyst: JHD
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:05
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:05
Barium	0.0772		0.00190	0.00400	mg/L	1	08-Jan-2021 22:05
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:05
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:05
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 22:05
Cobalt	0.000262	J	0.000200	0.00500	mg/L	1	08-Jan-2021 22:05
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:05
Lithium	0.0263		0.00100	0.00500	mg/L	1	08-Jan-2021 22:05
Molybdenum	0.000797	J	0.000600	0.00500	mg/L	1	08-Jan-2021 22:05
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:05
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:05
MERCURY BY SW7470A		Method:SW7470			Prep:SW7470 / 06-Jan-2021		Analyst: JC
Mercury	0.000120	J	0.0000300	0.000200	mg/L	1	07-Jan-2021 16:29
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA					Analyst: SUBFC
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA					Analyst: SUBFC
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-61
 Collection Date: 04-Jan-2021 11:15

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:07
Arsenic	0.000749	J	0.000400	0.00200	mg/L	1	08-Jan-2021 22:07
Barium	0.0147		0.00190	0.00400	mg/L	1	08-Jan-2021 22:07
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:07
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:07
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 22:07
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	08-Jan-2021 22:07
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:07
Lithium	0.0332		0.00100	0.00500	mg/L	1	08-Jan-2021 22:07
Molybdenum	0.000765	J	0.000600	0.00500	mg/L	1	08-Jan-2021 22:07
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:07
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:07
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:36
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: DUP-01
 Collection Date: 04-Jan-2021 12:00

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:09
Arsenic	0.000584	J	0.000400	0.00200	mg/L	1	08-Jan-2021 22:09
Barium	0.0352		0.00190	0.00400	mg/L	1	08-Jan-2021 22:09
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:09
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:09
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 22:09
Cobalt	0.000580	J	0.000200	0.00500	mg/L	1	08-Jan-2021 22:09
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:09
Lithium	0.0351		0.00100	0.00500	mg/L	1	08-Jan-2021 22:09
Molybdenum	0.000663	J	0.000600	0.00500	mg/L	1	08-Jan-2021 22:09
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:09
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:09
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	0.000712		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:37
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: DUP-02
 Collection Date: 04-Jan-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-27
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 05-Jan-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:11
Arsenic	0.00590		0.000400	0.00200	mg/L	1	08-Jan-2021 22:11
Barium	0.102		0.00190	0.00400	mg/L	1	08-Jan-2021 22:11
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:11
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:11
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 22:11
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	08-Jan-2021 22:11
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:11
Lithium	0.0296		0.00100	0.00500	mg/L	1	08-Jan-2021 22:11
Molybdenum	0.00742		0.000600	0.00500	mg/L	1	08-Jan-2021 22:11
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:11
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:11
MERCURY BY SW7470A		Method:SW7470		Prep:SW7470 / 06-Jan-2021		Analyst: JC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:39
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUBFC	
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: FB-01
 Collection Date: 04-Jan-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21010048
 Lab ID:HS21010048-28
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 05-Jan-2021		Analyst: JHD
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:13
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	08-Jan-2021 22:13
Barium	< 0.00190		0.00190	0.00400	mg/L	1	08-Jan-2021 22:13
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:13
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:13
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	08-Jan-2021 22:13
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	08-Jan-2021 22:13
Lead	< 0.000600		0.000600	0.00200	mg/L	1	08-Jan-2021 22:13
Lithium	< 0.00100		0.00100	0.00500	mg/L	1	08-Jan-2021 22:13
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	08-Jan-2021 22:13
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	08-Jan-2021 22:13
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	08-Jan-2021 22:13
MERCURY BY SW7470A		Method:SW7470			Prep:SW7470 / 06-Jan-2021		Analyst: JC
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	07-Jan-2021 16:41
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	12-Jan-2021 09:35
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA					Analyst: SUBFC
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA					Analyst: SUBFC
Subcontract Analysis	See Attached		0		NA	1	31-Jan-2021 14:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Batch ID: 161314 **Start Date:** 05 Jan 2021 11:03 **End Date:** 05 Jan 2021 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010048-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-27		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 161316 **Start Date:** 05 Jan 2021 11:00 **End Date:** 05 Jan 2021 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010048-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-20		10 (mL)	10 (mL)	1	120 plastic HNO3

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

Batch ID: 161368 **Start Date:** 07 Jan 2021 10:00 **End Date:** 07 Jan 2021 12:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010048-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-18		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 161369 **Start Date:** 07 Jan 2021 10:00 **End Date:** 07 Jan 2021 12:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21010048-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-27		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21010048-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 161314 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21010048-28	FB-01	04 Jan 2021 11:40		05 Jan 2021 11:03	08 Jan 2021 22:13	1
Batch ID: 161314 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21010048-19	MW-58	04 Jan 2021 08:55		05 Jan 2021 11:03	08 Jan 2021 21:45	1
HS21010048-21	MW-36	04 Jan 2021 10:10		05 Jan 2021 11:03	08 Jan 2021 21:59	1
HS21010048-22	MW-37	04 Jan 2021 12:30		05 Jan 2021 11:03	08 Jan 2021 22:01	1
HS21010048-23	MW-38R	04 Jan 2021 13:10		05 Jan 2021 11:03	08 Jan 2021 22:03	1
HS21010048-24	MW-60	04 Jan 2021 09:15		05 Jan 2021 11:03	08 Jan 2021 22:05	1
HS21010048-25	MW-61	04 Jan 2021 11:15		05 Jan 2021 11:03	08 Jan 2021 22:07	1
HS21010048-26	DUP-01	04 Jan 2021 12:00		05 Jan 2021 11:03	08 Jan 2021 22:09	1
HS21010048-27	DUP-02	04 Jan 2021 10:00		05 Jan 2021 11:03	08 Jan 2021 22:11	1
Batch ID: 161316 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21010048-01	MW-39	04 Jan 2021 12:50		05 Jan 2021 15:00	11 Jan 2021 23:35	1
HS21010048-02	MW-40	04 Jan 2021 11:55		05 Jan 2021 15:00	11 Jan 2021 23:37	1
HS21010048-03	MW-41	04 Jan 2021 10:05		05 Jan 2021 15:00	11 Jan 2021 23:39	1
HS21010048-04	MW-62	04 Jan 2021 13:45		05 Jan 2021 15:00	11 Jan 2021 23:41	1
HS21010048-05	MW-63	04 Jan 2021 09:00		05 Jan 2021 15:00	11 Jan 2021 23:22	1
HS21010048-06	MW-64	04 Jan 2021 11:00		05 Jan 2021 15:00	11 Jan 2021 23:43	1
HS21010048-07	MW-23	04 Jan 2021 11:30		05 Jan 2021 15:00	11 Jan 2021 23:45	1
HS21010048-08	MW-28D	04 Jan 2021 09:45		05 Jan 2021 15:00	11 Jan 2021 23:47	1
HS21010048-09	MW-42	04 Jan 2021 10:25		05 Jan 2021 15:00	11 Jan 2021 23:49	1
HS21010048-10	MW-43	04 Jan 2021 12:35		05 Jan 2021 15:00	11 Jan 2021 23:51	1
HS21010048-11	MW-44	04 Jan 2021 11:30		05 Jan 2021 15:00	11 Jan 2021 23:53	1
HS21010048-12	MW-46R	04 Jan 2021 10:35		05 Jan 2021 15:00	11 Jan 2021 23:59	1
HS21010048-13	MW-47	04 Jan 2021 12:30		05 Jan 2021 15:00	12 Jan 2021 00:01	1
HS21010048-14	MW-48	04 Jan 2021 11:40		05 Jan 2021 15:00	12 Jan 2021 00:03	1
HS21010048-15	MW-50	04 Jan 2021 13:15		05 Jan 2021 15:00	12 Jan 2021 00:05	1
HS21010048-16	MW-52	04 Jan 2021 12:30		05 Jan 2021 15:00	12 Jan 2021 00:07	1
HS21010048-17	MW-54	04 Jan 2021 08:55		05 Jan 2021 15:00	12 Jan 2021 00:09	1
HS21010048-18	MW-55R	04 Jan 2021 09:50		05 Jan 2021 15:00	12 Jan 2021 00:11	1
HS21010048-20	MW-65	04 Jan 2021 10:50		05 Jan 2021 15:00	12 Jan 2021 00:13	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 161368 (0)		Test Name : MERCURY BY SW7470A			Matrix: Groundwater	
HS21010048-01	MW-39	04 Jan 2021 12:50		06 Jan 2021 14:31	07 Jan 2021 15:16	1
HS21010048-02	MW-40	04 Jan 2021 11:55		06 Jan 2021 14:31	07 Jan 2021 15:18	1
HS21010048-03	MW-41	04 Jan 2021 10:05		06 Jan 2021 14:31	07 Jan 2021 15:20	1
HS21010048-04	MW-62	04 Jan 2021 13:45		06 Jan 2021 14:31	07 Jan 2021 15:21	1
HS21010048-05	MW-63	04 Jan 2021 09:00		06 Jan 2021 14:31	07 Jan 2021 15:00	1
HS21010048-06	MW-64	04 Jan 2021 11:00		06 Jan 2021 14:31	07 Jan 2021 15:23	1
HS21010048-07	MW-23	04 Jan 2021 11:30		06 Jan 2021 14:31	07 Jan 2021 15:25	1
HS21010048-08	MW-28D	04 Jan 2021 09:45		06 Jan 2021 14:31	07 Jan 2021 15:26	1
HS21010048-09	MW-42	04 Jan 2021 10:25		06 Jan 2021 14:31	07 Jan 2021 15:28	1
HS21010048-10	MW-43	04 Jan 2021 12:35		06 Jan 2021 14:31	07 Jan 2021 15:30	1
HS21010048-11	MW-44	04 Jan 2021 11:30		06 Jan 2021 14:31	07 Jan 2021 15:31	1
HS21010048-12	MW-46R	04 Jan 2021 10:35		06 Jan 2021 14:31	07 Jan 2021 15:46	1
HS21010048-13	MW-47	04 Jan 2021 12:30		06 Jan 2021 14:31	07 Jan 2021 15:47	1
HS21010048-14	MW-48	04 Jan 2021 11:40		06 Jan 2021 14:31	07 Jan 2021 15:49	1
HS21010048-15	MW-50	04 Jan 2021 13:15		06 Jan 2021 14:31	07 Jan 2021 15:51	1
HS21010048-16	MW-52	04 Jan 2021 12:30		06 Jan 2021 14:31	07 Jan 2021 15:52	1
HS21010048-17	MW-54	04 Jan 2021 08:55		06 Jan 2021 14:31	07 Jan 2021 15:54	1
HS21010048-18	MW-55R	04 Jan 2021 09:50		06 Jan 2021 14:31	07 Jan 2021 15:56	1
Batch ID: 161369 (0)		Test Name : MERCURY BY SW7470A			Matrix: Water	
HS21010048-28	FB-01	04 Jan 2021 11:40		06 Jan 2021 14:33	07 Jan 2021 16:41	1
Batch ID: 161369 (0)		Test Name : MERCURY BY SW7470A			Matrix: Groundwater	
HS21010048-19	MW-58	04 Jan 2021 08:55		06 Jan 2021 14:33	07 Jan 2021 16:12	1
HS21010048-20	MW-65	04 Jan 2021 10:50		06 Jan 2021 14:33	07 Jan 2021 16:22	1
HS21010048-21	MW-36	04 Jan 2021 10:10		06 Jan 2021 14:33	07 Jan 2021 16:23	1
HS21010048-22	MW-37	04 Jan 2021 12:30		06 Jan 2021 14:33	07 Jan 2021 16:25	1
HS21010048-23	MW-38R	04 Jan 2021 13:10		06 Jan 2021 14:33	07 Jan 2021 16:27	1
HS21010048-24	MW-60	04 Jan 2021 09:15		06 Jan 2021 14:33	07 Jan 2021 16:29	1
HS21010048-25	MW-61	04 Jan 2021 11:15		06 Jan 2021 14:33	07 Jan 2021 16:36	1
HS21010048-26	DUP-01	04 Jan 2021 12:00		06 Jan 2021 14:33	07 Jan 2021 16:37	1
HS21010048-27	DUP-02	04 Jan 2021 10:00		06 Jan 2021 14:33	07 Jan 2021 16:39	1
Batch ID: R376160 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21010048-28	FB-01	04 Jan 2021 11:40			12 Jan 2021 09:35	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R376160 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Groundwater	
HS21010048-01	MW-39	04 Jan 2021 12:50			12 Jan 2021 09:35	1
HS21010048-02	MW-40	04 Jan 2021 11:55			12 Jan 2021 09:35	1
HS21010048-03	MW-41	04 Jan 2021 10:05			12 Jan 2021 09:35	1
HS21010048-04	MW-62	04 Jan 2021 13:45			12 Jan 2021 09:35	1
HS21010048-05	MW-63	04 Jan 2021 09:00			12 Jan 2021 09:35	1
HS21010048-06	MW-64	04 Jan 2021 11:00			12 Jan 2021 09:35	1
HS21010048-07	MW-23	04 Jan 2021 11:30			12 Jan 2021 09:35	1
HS21010048-08	MW-28D	04 Jan 2021 09:45			12 Jan 2021 09:35	1
HS21010048-09	MW-42	04 Jan 2021 10:25			12 Jan 2021 09:35	1
HS21010048-10	MW-43	04 Jan 2021 12:35			12 Jan 2021 09:35	1
HS21010048-11	MW-44	04 Jan 2021 11:30			12 Jan 2021 09:35	1
HS21010048-12	MW-46R	04 Jan 2021 10:35			12 Jan 2021 09:35	1
HS21010048-13	MW-47	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010048-14	MW-48	04 Jan 2021 11:40			12 Jan 2021 09:35	1
HS21010048-15	MW-50	04 Jan 2021 13:15			12 Jan 2021 09:35	1
HS21010048-16	MW-52	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010048-17	MW-54	04 Jan 2021 08:55			12 Jan 2021 09:35	1
HS21010048-18	MW-55R	04 Jan 2021 09:50			12 Jan 2021 09:35	1
HS21010048-19	MW-58	04 Jan 2021 08:55			12 Jan 2021 09:35	1
HS21010048-20	MW-65	04 Jan 2021 10:50			12 Jan 2021 09:35	1
HS21010048-21	MW-36	04 Jan 2021 10:10			12 Jan 2021 09:35	1
HS21010048-22	MW-37	04 Jan 2021 12:30			12 Jan 2021 09:35	1
HS21010048-23	MW-38R	04 Jan 2021 13:10			12 Jan 2021 09:35	1
HS21010048-24	MW-60	04 Jan 2021 09:15			12 Jan 2021 09:35	1
HS21010048-25	MW-61	04 Jan 2021 11:15			12 Jan 2021 09:35	1
HS21010048-26	DUP-01	04 Jan 2021 12:00			12 Jan 2021 09:35	1
HS21010048-27	DUP-02	04 Jan 2021 10:00			12 Jan 2021 09:35	1
Batch ID: R377213 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 228			Matrix: Water	
HS21010048-28	FB-01	04 Jan 2021 11:40			31 Jan 2021 14:42	1
HS21010048-28	FB-01	04 Jan 2021 11:40			31 Jan 2021 14:42	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R377213 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 228			Matrix: Groundwater	
HS21010048-01	MW-39	04 Jan 2021 12:50			31 Jan 2021 14:42	1
HS21010048-01	MW-39	04 Jan 2021 12:50			31 Jan 2021 14:42	1
HS21010048-02	MW-40	04 Jan 2021 11:55			31 Jan 2021 14:42	1
HS21010048-02	MW-40	04 Jan 2021 11:55			31 Jan 2021 14:42	1
HS21010048-03	MW-41	04 Jan 2021 10:05			31 Jan 2021 14:42	1
HS21010048-03	MW-41	04 Jan 2021 10:05			31 Jan 2021 14:42	1
HS21010048-04	MW-62	04 Jan 2021 13:45			31 Jan 2021 14:42	1
HS21010048-04	MW-62	04 Jan 2021 13:45			31 Jan 2021 14:42	1
HS21010048-05	MW-63	04 Jan 2021 09:00			31 Jan 2021 14:42	1
HS21010048-05	MW-63	04 Jan 2021 09:00			31 Jan 2021 14:42	1
HS21010048-06	MW-64	04 Jan 2021 11:00			31 Jan 2021 14:42	1
HS21010048-06	MW-64	04 Jan 2021 11:00			31 Jan 2021 14:42	1
HS21010048-07	MW-23	04 Jan 2021 11:30			31 Jan 2021 14:42	1
HS21010048-07	MW-23	04 Jan 2021 11:30			31 Jan 2021 14:42	1
HS21010048-08	MW-28D	04 Jan 2021 09:45			31 Jan 2021 14:42	1
HS21010048-08	MW-28D	04 Jan 2021 09:45			31 Jan 2021 14:42	1
HS21010048-09	MW-42	04 Jan 2021 10:25			31 Jan 2021 14:42	1
HS21010048-09	MW-42	04 Jan 2021 10:25			31 Jan 2021 14:42	1
HS21010048-10	MW-43	04 Jan 2021 12:35			31 Jan 2021 14:42	1
HS21010048-10	MW-43	04 Jan 2021 12:35			31 Jan 2021 14:42	1
HS21010048-11	MW-44	04 Jan 2021 11:30			31 Jan 2021 14:42	1
HS21010048-11	MW-44	04 Jan 2021 11:30			31 Jan 2021 14:42	1
HS21010048-12	MW-46R	04 Jan 2021 10:35			31 Jan 2021 14:42	1
HS21010048-12	MW-46R	04 Jan 2021 10:35			31 Jan 2021 14:42	1
HS21010048-13	MW-47	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-13	MW-47	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-14	MW-48	04 Jan 2021 11:40			31 Jan 2021 14:42	1
HS21010048-14	MW-48	04 Jan 2021 11:40			31 Jan 2021 14:42	1
HS21010048-15	MW-50	04 Jan 2021 13:15			31 Jan 2021 14:42	1
HS21010048-15	MW-50	04 Jan 2021 13:15			31 Jan 2021 14:42	1
HS21010048-16	MW-52	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-16	MW-52	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-17	MW-54	04 Jan 2021 08:55			31 Jan 2021 14:42	1
HS21010048-17	MW-54	04 Jan 2021 08:55			31 Jan 2021 14:42	1
HS21010048-18	MW-55R	04 Jan 2021 09:50			31 Jan 2021 14:42	1
HS21010048-18	MW-55R	04 Jan 2021 09:50			31 Jan 2021 14:42	1
HS21010048-19	MW-58	04 Jan 2021 08:55			31 Jan 2021 14:42	1
HS21010048-19	MW-58	04 Jan 2021 08:55			31 Jan 2021 14:42	1
HS21010048-20	MW-65	04 Jan 2021 10:50			31 Jan 2021 14:42	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
HS21010048-20	MW-65	04 Jan 2021 10:50			31 Jan 2021 14:42	1
HS21010048-21	MW-36	04 Jan 2021 10:10			31 Jan 2021 14:42	1
HS21010048-21	MW-36	04 Jan 2021 10:10			31 Jan 2021 14:42	1
HS21010048-22	MW-37	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-22	MW-37	04 Jan 2021 12:30			31 Jan 2021 14:42	1
HS21010048-23	MW-38R	04 Jan 2021 13:10			31 Jan 2021 14:42	1
HS21010048-23	MW-38R	04 Jan 2021 13:10			31 Jan 2021 14:42	1
HS21010048-24	MW-60	04 Jan 2021 09:15			31 Jan 2021 14:42	1
HS21010048-24	MW-60	04 Jan 2021 09:15			31 Jan 2021 14:42	1
HS21010048-25	MW-61	04 Jan 2021 11:15			31 Jan 2021 14:42	1
HS21010048-25	MW-61	04 Jan 2021 11:15			31 Jan 2021 14:42	1
HS21010048-26	DUP-01	04 Jan 2021 12:00			31 Jan 2021 14:42	1
HS21010048-26	DUP-01	04 Jan 2021 12:00			31 Jan 2021 14:42	1
HS21010048-27	DUP-02	04 Jan 2021 10:00			31 Jan 2021 14:42	1
HS21010048-27	DUP-02	04 Jan 2021 10:00			31 Jan 2021 14:42	1

WorkOrder: HS21010048
InstrumentID: HG03
Test Code: HG_W
Test Number: SW7470
Test Name: Mercury by SW7470A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Mercury	7439-97-6	0.000100	0.0000840	0.0000300	0.000200

WorkOrder: HS21010048
 InstrumentID: ICPMS05
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Antimony	7440-36-0	0.00100	0.000964	0.000400	0.00200
A	Arsenic	7440-38-2	0.00100	0.00110	0.000400	0.00200
A	Barium	7440-39-3	0.00250	0.00206	0.00190	0.00400
A	Beryllium	7440-41-7	0.000500	0.000386	0.000200	0.00200
A	Cadmium	7440-43-9	0.000500	0.000426	0.000200	0.00200
A	Chromium	7440-47-3	0.00100	0.000849	0.000400	0.00400
A	Cobalt	7440-48-4	0.000500	0.000388	0.000200	0.00500
A	Lead	7439-92-1	0.00100	0.000830	0.000600	0.00200
A	Lithium	7439-93-2	0.00250	0.00205	0.00100	0.00500
A	Molybdenum	7439-98-7	0.00100	0.00123	0.000600	0.00500
A	Selenium	7782-49-2	0.00250	0.00274	0.00110	0.00200
A	Thallium	7440-28-0	0.000500	0.000372	0.000200	0.00200

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161314 (0)		Instrument: ICPMS05		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-161314	Units: mg/L			Analysis Date: 08-Jan-2021 21:41					
Client ID:		Run ID: ICPMS05_376081	SeqNo: 5914448	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	< 0.000400	0.00200								
Arsenic	< 0.000400	0.00200								
Barium	< 0.00190	0.00400								
Beryllium	< 0.000200	0.00200								
Cadmium	< 0.000200	0.00200								
Chromium	< 0.000400	0.00400								
Cobalt	< 0.000200	0.00500								
Lead	< 0.000600	0.00200								
Lithium	< 0.00100	0.00500								
Molybdenum	< 0.000600	0.00500								
Selenium	< 0.00110	0.00200								
Thallium	< 0.000200	0.00200								

LCS	Sample ID: LCS-161314	Units: mg/L			Analysis Date: 08-Jan-2021 21:43					
Client ID:		Run ID: ICPMS05_376081	SeqNo: 5914449	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04818	0.00200	0.05	0	96.4	80 - 120				
Arsenic	0.0506	0.00200	0.05	0	101	80 - 120				
Barium	0.0449	0.00400	0.05	0	89.8	80 - 120				
Beryllium	0.04918	0.00200	0.05	0	98.4	80 - 120				
Cadmium	0.04781	0.00200	0.05	0	95.6	80 - 120				
Chromium	0.04654	0.00400	0.05	0	93.1	80 - 120				
Cobalt	0.04827	0.00500	0.05	0	96.5	80 - 120				
Lead	0.04641	0.00200	0.05	0	92.8	80 - 120				
Lithium	0.1008	0.00500	0.1	0	101	80 - 120				
Molybdenum	0.04348	0.00500	0.05	0	87.0	80 - 120				
Selenium	0.05904	0.00200	0.05	0	118	80 - 120				

LCS	Sample ID: LCS-161314	Units: mg/L			Analysis Date: 11-Jan-2021 14:18					
Client ID:		Run ID: ICPMS05_376125	SeqNo: 5915161	PrepDate: 05-Jan-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Thallium	0.0463	0.00200	0.05	0	92.6	80 - 120				
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Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161314 (0)	Instrument: ICPMS05	Method: ICP-MS METALS BY SW6020A								
MS	Sample ID: HS21010048-19MS	Units: mg/L	Analysis Date: 08-Jan-2021 21:49							
Client ID: MW-58	Run ID: ICPMS05_376081	SeqNo: 5914452	PrepDate: 05-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04891	0.00200	0.05	0.000113	97.6	80 - 120				
Arsenic	0.06288	0.00200	0.05	0.01114	103	80 - 120				
Barium	0.255	0.00400	0.05	0.2083	93.5	80 - 120				O
Beryllium	0.05149	0.00200	0.05	0.000034	103	80 - 120				
Cadmium	0.0486	0.00200	0.05	0.00005	97.1	80 - 120				
Chromium	0.04938	0.00400	0.05	0.000067	98.6	80 - 120				
Cobalt	0.04841	0.00500	0.05	0.000481	95.8	80 - 120				
Lead	0.05014	0.00200	0.05	0.000043	100	80 - 120				
Lithium	0.146	0.00500	0.1	0.03939	107	80 - 120				
Molybdenum	0.05091	0.00500	0.05	0.002763	96.3	80 - 120				
Selenium	0.05627	0.00200	0.05	0.000412	112	80 - 120				
Thallium	0.04181	0.00200	0.05	0.0005	82.6	80 - 120				

MSD	Sample ID: HS21010048-19MSD	Units: mg/L	Analysis Date: 08-Jan-2021 21:51							
Client ID: MW-58	Run ID: ICPMS05_376081	SeqNo: 5914453	PrepDate: 05-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04869	0.00200	0.05	0.000113	97.2	80 - 120	0.04891	0.434	20	
Arsenic	0.06188	0.00200	0.05	0.01114	101	80 - 120	0.06288	1.59	20	
Barium	0.2459	0.00400	0.05	0.2083	75.1	80 - 120	0.255	3.66	20	SO
Beryllium	0.051	0.00200	0.05	0.000034	102	80 - 120	0.05149	0.952	20	
Cadmium	0.04725	0.00200	0.05	0.00005	94.4	80 - 120	0.0486	2.8	20	
Chromium	0.0477	0.00400	0.05	0.000067	95.3	80 - 120	0.04938	3.45	20	
Cobalt	0.04822	0.00500	0.05	0.000481	95.5	80 - 120	0.04841	0.393	20	
Lead	0.04906	0.00200	0.05	0.000043	98.0	80 - 120	0.05014	2.17	20	
Lithium	0.1454	0.00500	0.1	0.03939	106	80 - 120	0.146	0.396	20	
Molybdenum	0.04968	0.00500	0.05	0.002763	93.8	80 - 120	0.05091	2.45	20	
Selenium	0.05416	0.00200	0.05	0.000412	108	80 - 120	0.05627	3.81	20	
Thallium	0.04144	0.00200	0.05	0.0005	81.9	80 - 120	0.04181	0.898	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161314 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

PDS		Sample ID: HS21010048-19PDS			Units: mg/L		Analysis Date: 08-Jan-2021 21:53				
Client ID:	MW-58	Run ID:	ICPMS05_376081		SeqNo:	5914454	PrepDate:	05-Jan-2021		DF:	1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Antimony	0.1074	0.00200	0.1	0.000113	107	75 - 125					
Barium	0.326	0.00400	0.1	0.2083	118	75 - 125					
Beryllium	0.1183	0.00200	0.1	0.000034	118	75 - 125					
Cadmium	0.1129	0.00200	0.1	0.00005	113	75 - 125					
Chromium	0.1176	0.00400	0.1	0.000067	117	75 - 125					
Cobalt	0.1155	0.00500	0.1	0.000481	115	75 - 125					
Lead	0.1171	0.00200	0.1	0.000043	117	75 - 125					
Molybdenum	0.119	0.00500	0.1	0.002763	116	75 - 125					
Thallium	0.1151	0.00200	0.1	0.0005	115	75 - 125					

SD		Sample ID: HS21010048-19SD			Units: mg/L		Analysis Date: 08-Jan-2021 21:47				
Client ID:	MW-58	Run ID:	ICPMS05_376081		SeqNo:	5914451	PrepDate:	05-Jan-2021		DF:	5
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual	
Antimony	< 0.00200	0.0100					0.000113	0	10		
Arsenic	0.01104	0.0100					0.01114	0.808	10		
Barium	0.2075	0.0200					0.2083	0.395	10		
Beryllium	< 0.00100	0.0100					0.000034	0	10		
Cadmium	< 0.00100	0.0100					0.00005	0	10		
Chromium	< 0.00200	0.0200					0.000067	0	10		
Cobalt	< 0.00100	0.0250					0.000481	0	10		
Lead	< 0.00300	0.0100					0.000043	0	10		
Lithium	0.0399	0.0250					0.03939	1.3	10		
Molybdenum	0.003163	0.0250					0.002763	0	10	J	
Selenium	< 0.00550	0.0100					0.000412	0	10		
Thallium	< 0.00100	0.0100					0.0005	0	10		

The following samples were analyzed in this batch:

HS21010048-19	HS21010048-21	HS21010048-22	HS21010048-23
HS21010048-24	HS21010048-25	HS21010048-26	HS21010048-27
HS21010048-28			

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161316 (0)		Instrument: ICPMS05		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-161316	Units: mg/L			Analysis Date: 11-Jan-2021 23:14					
Client ID:	Run ID: ICPMS05_376125	SeqNo: 5915675	PrepDate: 05-Jan-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	< 0.000400	0.00200								
Arsenic	< 0.000400	0.00200								
Barium	< 0.00190	0.00400								
Beryllium	< 0.000200	0.00200								
Cadmium	< 0.000200	0.00200								
Chromium	< 0.000400	0.00400								
Cobalt	< 0.000200	0.00500								
Lead	< 0.000600	0.00200								
Lithium	< 0.00100	0.00500								
Molybdenum	< 0.000600	0.00500								
Selenium	< 0.00110	0.00200								
Thallium	< 0.000200	0.00200								

LCS	Sample ID: LCS-161316	Units: mg/L			Analysis Date: 11-Jan-2021 23:20					
Client ID:	Run ID: ICPMS05_376125	SeqNo: 5915678	PrepDate: 05-Jan-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04927	0.00200	0.05	0	98.5	80 - 120				
Arsenic	0.05017	0.00200	0.05	0	100	80 - 120				
Barium	0.04696	0.00400	0.05	0	93.9	80 - 120				
Beryllium	0.04752	0.00200	0.05	0	95.0	80 - 120				
Cadmium	0.04972	0.00200	0.05	0	99.4	80 - 120				
Chromium	0.04657	0.00400	0.05	0	93.1	80 - 120				
Cobalt	0.04741	0.00500	0.05	0	94.8	80 - 120				
Lead	0.04438	0.00200	0.05	0	88.8	80 - 120				
Lithium	0.1029	0.00500	0.1	0	103	80 - 120				
Molybdenum	0.04499	0.00500	0.05	0	90.0	80 - 120				
Selenium	0.05367	0.00200	0.05	0	107	80 - 120				
Thallium	0.04206	0.00200	0.05	0	84.1	80 - 120				

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161316 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

MS		Sample ID: HS21010048-05MS			Units: mg/L		Analysis Date: 11-Jan-2021 23:26			
Client ID: MW-63		Run ID: ICPMS05_376125			SeqNo: 5915681		PrepDate: 05-Jan-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05087	0.00200	0.05	0.000213	101	80 - 120				
Arsenic	0.05534	0.00200	0.05	0.002085	107	80 - 120				
Barium	0.1114	0.00400	0.05	0.06316	96.6	80 - 120				
Beryllium	0.05031	0.00200	0.05	0.000025	101	80 - 120				
Cadmium	0.04836	0.00200	0.05	0.000103	96.5	80 - 120				
Chromium	0.06142	0.00400	0.05	0.01206	98.7	80 - 120				
Cobalt	0.04773	0.00500	0.05	0.000055	95.4	80 - 120				
Lead	0.04756	0.00200	0.05	-0.000227	95.6	80 - 120				
Lithium	0.1352	0.00500	0.1	0.02598	109	80 - 120				
Molybdenum	0.04852	0.00500	0.05	0.001114	94.8	80 - 120				
Selenium	0.05418	0.00200	0.05	0.000713	107	80 - 120				
Thallium	0.04478	0.00200	0.05	0.000326	88.9	80 - 120				

MSD		Sample ID: HS21010048-05MSD			Units: mg/L		Analysis Date: 11-Jan-2021 23:28			
Client ID: MW-63		Run ID: ICPMS05_376125			SeqNo: 5915682		PrepDate: 05-Jan-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05148	0.00200	0.05	0.000213	103	80 - 120	0.05087	1.2	20	
Arsenic	0.0564	0.00200	0.05	0.002085	109	80 - 120	0.05534	1.91	20	
Barium	0.115	0.00400	0.05	0.06316	104	80 - 120	0.1114	3.12	20	
Beryllium	0.05185	0.00200	0.05	0.000025	104	80 - 120	0.05031	3.01	20	
Cadmium	0.04989	0.00200	0.05	0.000103	99.6	80 - 120	0.04836	3.11	20	
Chromium	0.06103	0.00400	0.05	0.01206	97.9	80 - 120	0.06142	0.634	20	
Cobalt	0.0481	0.00500	0.05	0.000055	96.1	80 - 120	0.04773	0.778	20	
Lead	0.04807	0.00200	0.05	-0.000227	96.6	80 - 120	0.04756	1.06	20	
Lithium	0.1409	0.00500	0.1	0.02598	115	80 - 120	0.1352	4.12	20	
Molybdenum	0.05059	0.00500	0.05	0.001114	99.0	80 - 120	0.04852	4.18	20	
Selenium	0.05328	0.00200	0.05	0.000713	105	80 - 120	0.05418	1.68	20	
Thallium	0.04601	0.00200	0.05	0.000326	91.4	80 - 120	0.04478	2.7	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161316 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

PDS		Sample ID: HS21010048-05PDS			Units: mg/L		Analysis Date: 11-Jan-2021 23:30			
Client ID: MW-63		Run ID: ICPMS05_376125			SeqNo: 5915683		PrepDate: 05-Jan-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.1013	0.00200	0.1	0.000213	101	75 - 125				
Arsenic	0.1079	0.00200	0.1	0.002085	106	75 - 125				
Barium	0.1591	0.00400	0.1	0.06316	96.0	75 - 125				
Beryllium	0.09817	0.00200	0.1	0.000025	98.1	75 - 125				
Cadmium	0.09731	0.00200	0.1	0.000103	97.2	75 - 125				
Chromium	0.1081	0.00400	0.1	0.01206	96.0	75 - 125				
Cobalt	0.09288	0.00500	0.1	0.000055	92.8	75 - 125				
Lead	0.0981	0.00200	0.1	-0.000227	98.3	75 - 125				
Lithium	0.1256	0.00500	0.1	0.02598	99.6	70 - 125				
Molybdenum	0.09954	0.00500	0.1	0.001114	98.4	75 - 125				
Selenium	0.1082	0.00200	0.1	0.000713	107	75 - 125				
Thallium	0.09918	0.00200	0.1	0.000326	98.9	75 - 125				

SD		Sample ID: HS21010048-05SD			Units: mg/L		Analysis Date: 11-Jan-2021 23:24			
Client ID: MW-63		Run ID: ICPMS05_376125			SeqNo: 5915680		PrepDate: 05-Jan-2021		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	< 0.00200	0.0100					0.000213	0	10	
Arsenic	0.002695	0.0100					0.002085	0	10	J
Barium	0.06364	0.0200					0.06316	0.771	10	
Beryllium	< 0.00100	0.0100					0.000025	0	10	
Cadmium	< 0.00100	0.0100					0.000103	0	10	
Chromium	0.01137	0.0200					0.01206	0	10	J
Cobalt	< 0.00100	0.0250					0.000055	0	10	
Lead	< 0.00300	0.0100					-0.000227	0	10	
Lithium	0.025	0.0250					0.02598	3.75	10	
Molybdenum	< 0.00300	0.0250					0.001114	0	10	
Selenium	< 0.00550	0.0100					0.000713	0	10	
Thallium	< 0.00100	0.0100					0.000326	0	10	

The following samples were analyzed in this batch:

HS21010048-01	HS21010048-02	HS21010048-03	HS21010048-04
HS21010048-05	HS21010048-06	HS21010048-07	HS21010048-08
HS21010048-09	HS21010048-10	HS21010048-11	HS21010048-12
HS21010048-13	HS21010048-14	HS21010048-15	HS21010048-16
HS21010048-17	HS21010048-18	HS21010048-20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161368 (0)		Instrument: HG03		Method: MERCURY BY SW7470A					
MBLK	Sample ID: MBLK-161368	Units: mg/L		Analysis Date: 07-Jan-2021 14:52					
Client ID:	Run ID: HG03_376011	SeqNo: 5913042		PrepDate: 06-Jan-2021		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury < 0.0000300 0.000200

LCS	Sample ID: LCS-161368	Units: mg/L		Analysis Date: 07-Jan-2021 14:58					
Client ID:	Run ID: HG03_376011	SeqNo: 5913043		PrepDate: 06-Jan-2021		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 0.0049 0.000200 0.005 0 98.0 80 - 120

MS	Sample ID: HS21010048-05MS	Units: mg/L		Analysis Date: 07-Jan-2021 15:06					
Client ID: MW-63	Run ID: HG03_376011	SeqNo: 5913045		PrepDate: 06-Jan-2021		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 0.00376 0.000200 0.005 0.000335 68.5 75 - 125 S

MSD	Sample ID: HS21010048-05MSD	Units: mg/L		Analysis Date: 07-Jan-2021 15:08					
Client ID: MW-63	Run ID: HG03_376011	SeqNo: 5913046		PrepDate: 06-Jan-2021		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual	

Mercury 0.0037 0.000200 0.005 0.000335 67.3 75 - 125 0.00376 1.61 20 S

The following samples were analyzed in this batch:

HS21010048-01	HS21010048-02	HS21010048-03	HS21010048-04
HS21010048-05	HS21010048-06	HS21010048-07	HS21010048-08
HS21010048-09	HS21010048-10	HS21010048-11	HS21010048-12
HS21010048-13	HS21010048-14	HS21010048-15	HS21010048-16
HS21010048-17	HS21010048-18		

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

QC BATCH REPORT

Batch ID: 161369 (0)	Instrument: HG03	Method: MERCURY BY SW7470A
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MBLK	Sample ID: MBLK-161369	Units: mg/L	Analysis Date: 07-Jan-2021 16:09							
Client ID:	Run ID: HG03_376011	SeqNo: 5913196	PrepDate: 06-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury < 0.0000300 0.000200

LCS	Sample ID: LCS-161369	Units: mg/L	Analysis Date: 07-Jan-2021 16:11							
Client ID:	Run ID: HG03_376011	SeqNo: 5913197	PrepDate: 06-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00475 0.000200 0.005 0 95.0 80 - 120

MS	Sample ID: HS21010048-19MS	Units: mg/L	Analysis Date: 07-Jan-2021 16:14							
Client ID: MW-58	Run ID: HG03_376011	SeqNo: 5913199	PrepDate: 06-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00536 0.000200 0.005 0.000004 107 75 - 125

MSD	Sample ID: HS21010048-19MSD	Units: mg/L	Analysis Date: 07-Jan-2021 16:20							
Client ID: MW-58	Run ID: HG03_376011	SeqNo: 5913200	PrepDate: 06-Jan-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Mercury 0.00544 0.000200 0.005 0.000004 109 75 - 125 0.00536 1.48 20

The following samples were analyzed in this batch:	HS21010048-19	HS21010048-20	HS21010048-21	HS21010048-22
	HS21010048-23	HS21010048-24	HS21010048-25	HS21010048-26
	HS21010048-27	HS21010048-28		

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21010048

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2021	31-Dec-2021
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-20-26	30-Apr-2021

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21010048

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21010048-01	MW-39	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-01	MW-39	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-01	MW-39	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-01	MW-39	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-02	MW-40	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-02	MW-40	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-02	MW-40	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-02	MW-40	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-03	MW-41	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-03	MW-41	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-03	MW-41	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-03	MW-41	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-04	MW-62	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-04	MW-62	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-04	MW-62	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-04	MW-62	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-05	MW-63	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-05	MW-63	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-05	MW-63	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-05	MW-63	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-06	MW-64	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-06	MW-64	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-06	MW-64	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-06	MW-64	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-07	MW-23	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-07	MW-23	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-07	MW-23	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-07	MW-23	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-08	MW-28D	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-08	MW-28D	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-08	MW-28D	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-08	MW-28D	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-09	MW-42	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-09	MW-42	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-09	MW-42	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-09	MW-42	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-10	MW-43	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-10	MW-43	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-10	MW-43	Login	1/4/2021 3:56:18 PM	PMG	Sub

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21010048

SAMPLE TRACKING

HS21010048-10	MW-43	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-11	MW-44	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-11	MW-44	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-11	MW-44	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-11	MW-44	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-12	MW-46R	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-12	MW-46R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-12	MW-46R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-12	MW-46R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-13	MW-47	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-13	MW-47	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-13	MW-47	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-13	MW-47	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-14	MW-48	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-14	MW-48	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-14	MW-48	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-14	MW-48	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-15	MW-50	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-15	MW-50	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-15	MW-50	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-15	MW-50	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-16	MW-52	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-16	MW-52	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-16	MW-52	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-16	MW-52	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-17	MW-54	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-17	MW-54	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-17	MW-54	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-18	MW-55R	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-18	MW-55R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-18	MW-55R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-18	MW-55R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-19	MW-58	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-19	MW-58	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-19	MW-58	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-19	MW-58	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-20	MW-65	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-20	MW-65	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-20	MW-65	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-20	MW-65	Login	1/4/2021 3:56:18 PM	PMG	Sub

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21010048

SAMPLE TRACKING

HS21010048-21	MW-36	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-21	MW-36	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-21	MW-36	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-21	MW-36	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-22	MW-37	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-22	MW-37	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-22	MW-37	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-22	MW-37	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-23	MW-38R	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-23	MW-38R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-23	MW-38R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-23	MW-38R	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-24	MW-60	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-24	MW-60	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-24	MW-60	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-24	MW-60	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-25	MW-61	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-25	MW-61	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-25	MW-61	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-25	MW-61	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-26	DUP-01	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-26	DUP-01	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-26	DUP-01	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-26	DUP-01	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-27	DUP-02	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-27	DUP-02	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-27	DUP-02	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-27	DUP-02	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-28	FB-01	Login	1/4/2021 3:56:18 PM	PMG	Disposed
HS21010048-28	FB-01	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-28	FB-01	Login	1/4/2021 3:56:18 PM	PMG	Sub
HS21010048-28	FB-01	Login	1/4/2021 3:56:18 PM	PMG	Sub

Sample Receipt Checklist

Work Order ID: HS21010048

Date/Time Received: 04-Jan-2021 14:50

Client Name: TRC-HOU

Received by: Pablo Martinez

Completed By: /S/ Paresh M. Giga	04-Jan-2021 16:44	Reviewed by: /S/ Corey Grandits	05-Jan-2021 17:56
eSignature	Date/Time	eSignature	Date/Time

Matrices: **GW/Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 3 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC
- Samplers name present on COC? Yes No IDs:231112/231114/231113
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	0.4C; 0.1C; 0.3C; 0.2C; 0.6C; 1.2C; 0.9C; 0.4C U/C IR25
Cooler(s)/Kit(s):	45713/45404/44986/46525/46600/45966/46523/45122
Date/Time sample(s) sent to storage:	1/4/2021 17:30

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by: Pablo Martinez

Login Notes: Sx ID: MW-58 bottle 3 of 3 Metals pH >2(7) Preserved with 0.5mL HNO3 on 1/4/21 18:30 by PM Lot # 315013409 After Preservation pH <2(1)

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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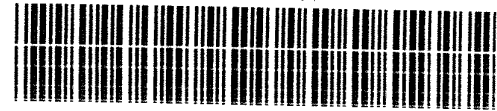
Chain of Custody Form

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COC ID: 231112

HS21010048

TRC Corporation
NRG WA Parish - Appendix IV



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix IV	A HG W(Mercury)- Appendix IV
Work Order		Project Number		B ICP_TW (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl) App IV
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C Sub_Fluoride (Sub Fluoride to ALS Michigan)- App IV
Send Report To	Lori Burris	Invoice Attn	A/P	D SUB_RA 226 (Sub RA 226 to ALS Fort Collins)- App IV
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place Suite 101	E SUB_RA 228 (Sub RA 228 to ALS Fort Collins)- App IV
				F
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77084	G <u>0 = MS/MSD volume provided</u>
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-39	1-4-21	1250	GW	2.8		X	X	X	X	X									
2	MW-40	↓	1155	↓	↓		X	X	X	X	X									
3	MW-41		X				X	X	X	X										
4	MW-62		X				X	X	X	X										
5	MW-63		900				X	X	X	X	X	X	X							
6	MW-64		1100				X	X	X	X	X	X	X							
7	MW-23		1130				X	X	X	X	X	X	X							
8	MW-28D		945				X	X	X	X	X	X	X							
9	MW-42		1025				X	X	X	X	X	X	X							
10	MW-43		1235				X	X	X	X	X	X	X							

Sampler(s) Please Print & Sign: Brian Hillin + HMI Team Shipment Method: Consult. Delivery Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour Results Due Date: _____

Relinquished by: [Signature] Date: 1-4-21 Time: 1450 Received by: [Signature] Notes: NRG CCR] PRIVILEGED & CONFIDENTIAL

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): PM 1-4-21 14:50 Cooler ID: 45713 Cooler Temp.: 0.4C QC Package: (Check One Box Below) Level II Std QC TPRP Check list

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____ 45404 0.1C Level III Std QC/Raw Data TPRP Level IV

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035 44906 0.3C Level IV SV4843/CLP

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

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COC ID: 231114

HS21010048

TRC Corporation
NRG WA Parish - Appendix IV

wv



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix IV	A HG_W (Mercury)- Appendix IV
Work Order		Project Number		B ICP_TW (Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Mo,Se,Tl) App IV
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C Sub_Fluoride (Sub Fluoride to ALS Michigan)- App IV
Send Report To	Lori Burris	Invoice Attn	A/P	D SUB_RA 226 (Sub RA 226 to ALS Fort Collins)- App IV
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place Suite 101	E SUB_RA 228 (Sub RA 228 to ALS Fort Collins)- App IV
				F
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77084	G <u>0=MS/MSD volume provided</u>
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-44	1-4-21	1130	GW	2,8		X	X	X	X	X									
2	MW-46R	↓	1035	↓	↓		X	X	X	X	X									
3	MW-47		1230				X	X	X	X	X									
4	MW-48		1140				X	X	X	X	X									
5	MW-50		1315				X	X	X	X	X									
6	MW-52		1230				X	X	X	X	X									
7	MW-54		855				X	X	X	X	X									
8	MW-55R		950				X	X	X	X	X									
9	MW-58		855				X	X	X	X	X									
10	MW-65		1050				X	X	X	X	X									

Sampler(s) Please Print & Sign
 Brian Hillin & HMF Team
 Shipment Method: Consult. Delivery
 Required Turnaround Time: (Check Box) Other STD 10 Wk Days 5 Wk Days 2 Wk Days 24 hour
 Results Due Date: _____
 Relinquished by: _____ Date: 1-4-21 Time: 1450
 Received by: PM
 Relinquished by: _____ Date: _____ Time: _____
 Received by (Laboratory): PM 1-4-21 14:50
 Checked by (Laboratory): _____
 Logged by (Laboratory): _____ Date: _____ Time: _____
 Notes: NRG CCR PRIVILEGED & CONFIDENTIAL
 Cooler ID: _____ Cooler Temp.: _____
 QC Package: (Check One Box Below)
 Level II Std QC TPRP Check list
 Level III Std. QC/Raw Data TPRP Level IV
 Level IV SW-846/CLP
 Other _____

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

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COC ID: **231113**

HS21010048

TRC Corporation
NRG WA Parish - Appendix IV




ALS Project Manager:


Customer Information		Project Information		
Purchase Order	NEED	Project Name	NRG WA Parish - Appendix IV	A
Work Order		Project Number		B
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C
Send Report To	Lori Burris	Invoice Attn	A/P	D
Address	10550 Richmond Ave., Suite 210	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77042	City/State/Zip	Houston TX 77084	G
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J


No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	Mw-36	1-4-21	1010	Gw	2,8		X	X	X	X	X									
2	Mw-37	↓	1230	↓	↓		X	X	X	X	X									
3	Mw-38R		1310				X	X	X	X	X									
4	Mw-60		915				X	X	X	X	X									
5	Mw-61		1115				X	X	X	X	X									
6	DUP-01		1200				X	X	X	X	X									
7	DUP-02		1000				X	X	X	X	X									
8	FB-01		1140				W				X	X	X	X	X					
9																				
10																				


Sampler(s) Please Print & Sign <i>Brian Hillin & HMF Team</i>		Shipment Method <i>Consult. Delivery</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk. Days <input checked="" type="checkbox"/> 5 Wk. Days <input type="checkbox"/> 2 Wk. Days <input type="checkbox"/> 24-hour			Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 1-4-21	Time: 1450	Received by: <i>[Signature]</i>	Notes: NRG OCR PRIVILEGED & CONFIDENTIAL				
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check list	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV	
						<input type="checkbox"/> Level IV SW846/CLP		
						<input type="checkbox"/> Other		


Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin	Company: HMF	Date: 1-4-21

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin		Date: 1-4-21
	Company: HMI		

46600

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 1-4-21	Time: 1430	PM
	Name: B. Hillin		Date: 1-4-21
	Company: HMI		

46525



Sunday, January 31, 2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd, Suite 210
Houston, TX 77099

Re: ALS Workorder: 2101065
Project Name:
Project Number: HS21010048

Dear Mr. Grandits:

Twenty eight water samples were received from ALS Environmental, on 1/6/2021. The samples were scheduled for the following analyses:

Radium-226

Radium-228

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.

Appendix A

Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Job No. 2101065 and laboratory batch no(s). RE210114-4A, RE210114-5A, RA210113-1A, RA210113-2A, and RA210114-1A and consists of:

- This signature page, the laboratory review checklist, and the following reportable data:
 - R1 - Field chain-of-custody documentation;
 - R2 - Sample identification cross-reference;
 - R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. Dilution factors,
 - c. Preparation methods,
 - d. Cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
 - R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
 - R5 - Test reports/summary forms for blank samples;
 - R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
 - R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,

- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences (RPDs), and
- e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory's QC limits for analytical duplicates.

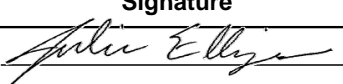
R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC §25.6 and was last inspection by TCEQ or _____ on **(enter date of last inspection)**. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (printed)	Date
Julie Ellingson		CS Manager	1-31-2021

Laboratory Review Checklist: Reportable Data - Page 2 of 4

Laboratory Name: ALS Laboratory Group		LRC Date: 1-31-2021					
Project Name:		Laboratory Job Number: 2101065					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210114-4A, RE210114-5A, RA210113-1A, RA210113-2A, RA210114-1A					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					

Laboratory Name: ALS Laboratory Group		LRC Date: 1-31-2021					
Project Name:		Laboratory Job Number: 2101065					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210114-4A, RE210114-5A, RA210113-1A, RA210113-2A, RA210114-1A					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?			X		
		Was the LCSD RPD within QC limits?			X		
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		

Laboratory Name: ALS Laboratory Group		LRC Date: 1-31-2021					
Project Name:		Laboratory Job Number: 2101065					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210114-4A, RE210114-5A, RA210113-1A, RA210113-2A, RA210114-1A					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							



2101065

Radium-228:

The samples were analyzed for the presence of ^{228}Ra by low background gas flow proportional counting of ^{228}Ac , which is the ingrown progeny of ^{228}Ra , according to EPA 904.0

All acceptance criteria were met.

Radium-226:

The samples were prepared and analyzed according to EPA 903.1

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2101065

Client Name: ALS Environmental

Client Project Name:

Client Project Number: HS21010048

Client PO Number: 10-15436

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-39	2101065-1		WATER	04-Jan-21	12:50
MW-40	2101065-2		WATER	04-Jan-21	11:55
MW-41	2101065-3		WATER	04-Jan-21	10:05
MW-62	2101065-4		WATER	04-Jan-21	13:45
MW-63	2101065-5		WATER	04-Jan-21	9:00
MW-64	2101065-6		WATER	04-Jan-21	11:00
MW-23	2101065-7		WATER	04-Jan-21	11:30
MW-28D	2101065-8		WATER	04-Jan-21	9:45
MW-42	2101065-9		WATER	04-Jan-21	10:25
MW-43	2101065-10		WATER	04-Jan-21	12:35
MW-44	2101065-11		WATER	04-Jan-21	11:30
MW-46R	2101065-12		WATER	04-Jan-21	10:35
MW-47	2101065-13		WATER	04-Jan-21	12:30
MW-48	2101065-14		WATER	04-Jan-21	11:40
MW-50	2101065-15		WATER	04-Jan-21	13:15
MW-52	2101065-16		WATER	04-Jan-21	12:30
MW-54	2101065-17		WATER	04-Jan-21	8:55
MW-55R	2101065-18		WATER	04-Jan-21	9:50
MW-58	2101065-19		WATER	04-Jan-21	8:55
MW-65	2101065-20		WATER	04-Jan-21	10:50
MW-36	2101065-21		WATER	04-Jan-21	10:10
MW-37	2101065-22		WATER	04-Jan-21	12:30
MW-38R	2101065-23		WATER	04-Jan-21	13:10
MW-60	2101065-24		WATER	04-Jan-21	9:15
MW-61	2101065-25		WATER	04-Jan-21	11:15
DUP-01	2101065-26		WATER	04-Jan-21	12:00
DUP-02	2101065-27		WATER	04-Jan-21	10:00
FB-01	2101065-28		WATER	04-Jan-21	11:40



10450 Stancliff Rd, Ste 210
 Houston, TX 77099
 T: +1 281 530 5656
 F: +1 281 530 5887
 www.alsglobal.com

2101065

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15436

SUBCONTRACT TO:

ALS Environmental, Fort Collins
 225 Commerce Drive
 Fort Collins, CO 80524

Phone: +1 970 490 1511

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21010048
TSR: Sonia West

2101065

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21010048-01	MW-39	Groundwater	04 Jan 2021 12:50
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
2.	HS21010048-02	MW-40	Groundwater	04 Jan 2021 11:55
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
3.	HS21010048-03	MW-41	Groundwater	04 Jan 2021 10:05
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
4.	HS21010048-04	MW-62	Groundwater	04 Jan 2021 13:45
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
5.	HS21010048-05	MW-63	Groundwater	04 Jan 2021 09:00
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
6.	HS21010048-06	MW-64	Groundwater	04 Jan 2021 11:00
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021

RIWIS SOLUTIONS (P) (S) (C) (O) (R) (E)

24 Jan 2021



2101065

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15436

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
7.	HS21010048-07	MW-23	Groundwater	04 Jan 2021 11:30
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
8.	HS21010048-08	MW-28D	Groundwater	04 Jan 2021 09:45
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
9.	HS21010048-09	MW-42	Groundwater	04 Jan 2021 10:25
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
10.	HS21010048-10	MW-43	Groundwater	04 Jan 2021 12:35
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
11.	HS21010048-11	MW-44	Groundwater	04 Jan 2021 11:30
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
12.	HS21010048-12	MW-46R	Groundwater	04 Jan 2021 10:35
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
13.	HS21010048-13	MW-47	Groundwater	04 Jan 2021 12:30
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
14.	HS21010048-14	MW-48	Groundwater	04 Jan 2021 11:40
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
15.	HS21010048-15	MW-50	Groundwater	04 Jan 2021 13:15
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
16.	HS21010048-16	MW-52	Groundwater	04 Jan 2021 12:30
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual			29 Jan 2021
17.	HS21010048-17	MW-54	Groundwater	04 Jan 2021 08:55



2101065

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15436

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
18. HS21010048-18	MW-55R	Groundwater	04 Jan 2021 09:50
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
19. HS21010048-19	MW-58	Groundwater	04 Jan 2021 08:55
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
20. HS21010048-20	MW-65	Groundwater	04 Jan 2021 10:50
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
21. HS21010048-21	MW-36	Groundwater	04 Jan 2021 10:10
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
22. HS21010048-22	MW-37	Groundwater	04 Jan 2021 12:30
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
23. HS21010048-23	MW-38R	Groundwater	04 Jan 2021 13:10
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
24. HS21010048-24	MW-60	Groundwater	04 Jan 2021 09:15
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
25. HS21010048-25	MW-61	Groundwater	04 Jan 2021 11:15
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
26. HS21010048-26	DUP-01	Groundwater	04 Jan 2021 12:00
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021
27. HS21010048-27	DUP-02	Groundwater	04 Jan 2021 10:00
	Report Combined RA 226/228 Value &the 2 Individual		29 Jan 2021



2101065

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15436

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Report Combined RA 226/228 Value & the 2 Individual			29 Jan 2021
28. HS21010048-28	FB-01	Groundwater	04 Jan 2021 11:40
Report Combined RA 226/228 Value & the 2 Individual			29 Jan 2021
Report Combined RA 226/228 Value & the 2 Individual			29 Jan 2021

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
HS21010048-05 & HS21010048-19 = MS/MSD.

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: _____
 Received By: _____
 Cooler ID(s): _____

Date/Time: 1/5/2021 18:00
 Date/Time: 01-06-2021 1030
 Temperature(s): _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID:

Houston

Workorder No:

2101065

Project Manager:

JME

Initials:

RGA

Date: 01/06/2021

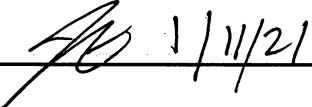
1. Are airbills / shipping documents present and/or removable?	<input type="checkbox"/> Drop Off	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2. Are custody seals on shipping containers intact?	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
3. Are custody seals on sample containers intact?	<input checked="" type="checkbox"/> NONE	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
4. Is there a COC (chain-of-custody) present?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
6. Are short-hold samples present?		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
7. Are all samples within holding times for the requested analyses?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
8. Were all sample containers received intact? (not broken or leaking)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
9. Is there sufficient sample for the requested analyses?		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
10. Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
11. Are all aqueous samples preserved correctly, if required?	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO*
12. Were unpreserved samples pH checked, if required?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm in diameter?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
14. Were the samples shipped on ice?		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
15. Were cooler temperatures measured at 0.1 - 6.0°C?	IR gun used: <input type="checkbox"/> #3 <input type="checkbox"/> #5	<input checked="" type="checkbox"/> Rad Only	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Cooler #:	1	2	3	4	
Temperature (°C):	amb	amb	amb	amb	
# of custody seals on cooler:	2	2	2	2	
External mR/hr reading:	12	14	10	15	
Background mR/hr reading:	10	Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008)			<input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

* Please provide details below for 'NO' responses in gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

All client bottle ID's vs ALS lab ID's double-checked by: **RGA**

If applicable, was the client contacted? YES N/A Contact Name _____ Date: _____

Project Manager Signature / Date:  1/11/21

Must Deliver Next Business Day
Time and Temperature Sensitive!



Part # 159469-434 RITZ EXP 09/21

ORIGIN ID:SGRA (281) 530-5656
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

SHIP DATE: 05JAN21
ACTWGT: 54.15 LB
CAD: 0221247/CAFE3408
DIMS: 26x14x14 IN

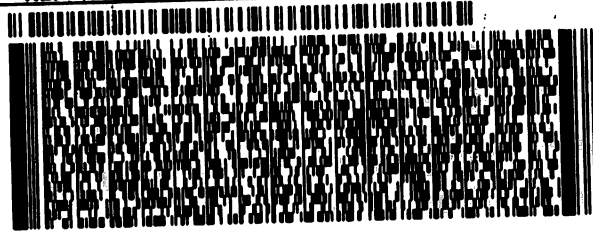
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
225 COMMERCE DRIVE

12-2
amb

FORT COLLINS CO 80524

(970) 490-1611
REF: HS21010048 - CG



FedEx
Express



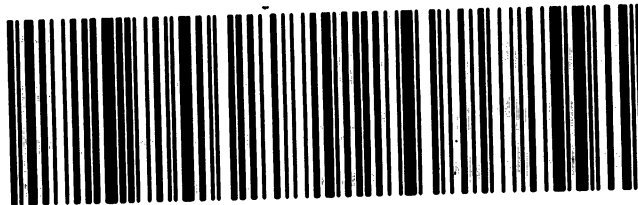
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1 of 4
TRK# **9473 0839 0384**
0201
MASTER

WED - 06 JAN 4:30P
STANDARD OVERNIGHT

NA FTCA

80524
CO-US DEN





**Must Deliver Next Business Day
Time and Tempature Sensltive!**

Print # 159489-434 FITZ EXP 09/21

14-2
amb

ORIGIN ID: 8GRA (281) 530-5656
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77089
UNITED STATES US

SHIP DATE: 05 JAN 21
ACTWGT: 54.15 LB
CAD: 0221247/CAFE3408
DIMS: 26x14x14 IN

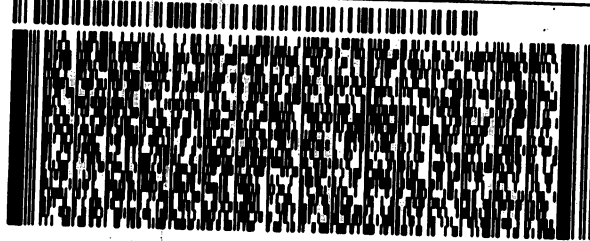
BILL THIRD PARTY

TO **SAMPLE RECEIVING
ALS ENVIRONMENTAL
225 COMMERCE DRIVE**

FORT COLLINS CO 80524

(970) 490-1511

REF: HS21010048 - CG



**FedEx
Express**



2 of 4

MPS# 9473 0839 0395
0269

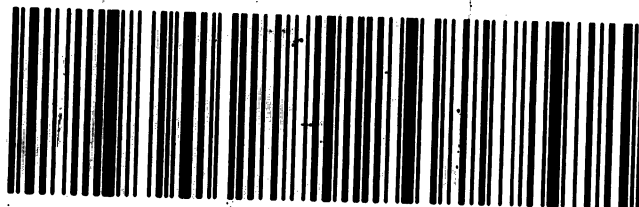
Mstr# 9473 0839 0384

0201

**WED + 06 JAN 4:30P
STANDARD OVERNIGHT**

NA FTCA

**80524
CO-US DEN**





Must Deliver Next Business Day
Time and Temperature Sensitive!

10-2
amb

Part # 159488-434 RITZ EXP 09/21

ORIGIN ID: 9GRA (281) 530-5656
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77089
UNITED STATES US

SHIP DATE: 05JAN21
ACTWGT: 54.15 LB
CAD: 0221247/CAFE3408
DIMS: 28x14x14 IN

BILL THIRD PARTY

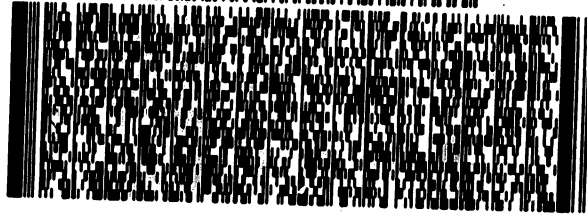
TO **SAMPLE RECEIVING
ALS ENVIRONMENTAL
225 COMMERCE DRIVE**

FORT COLLINS CO 80524

(970) 490-1511

REF: HS21010048 - CG

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Express**



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3 of 4

MPS# 9473 0839 0400
0263

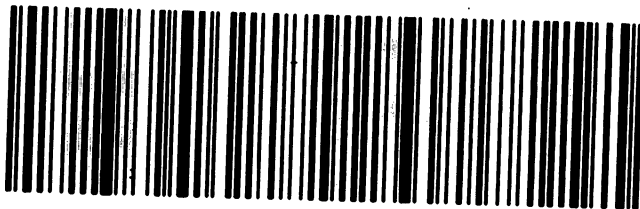
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0201

**WED - 06 JAN 4:30P
STANDARD OVERNIGHT**

NA FTCA

**80524
CO-US DEN**





Must Del
Time a

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0410

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16:30
2

RT 617

Part 1-434 RT2 EXP 09/21

ORIGIN ID:SGRA (281) 530-5656
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77098
UNITED STATES US

SHIP DATE: 05JAN21
ACTWGT: 54.15 LB
CAD: 0221247/CAFE3408
DIMS: 25x14x14 IN
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
225 COMMERCE DRIVE

FORT COLLINS CO 80524

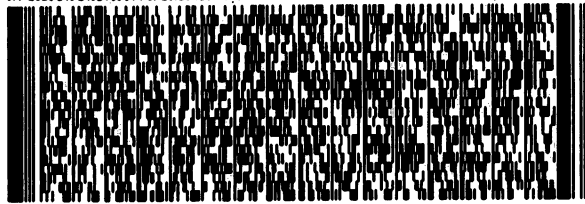
(970) 490-1511

REF: HS21010048 - CG

152
amb

2059/3511/1395

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FedEx
Express



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4 of 4

MPS# 9473 0839 0410
0263

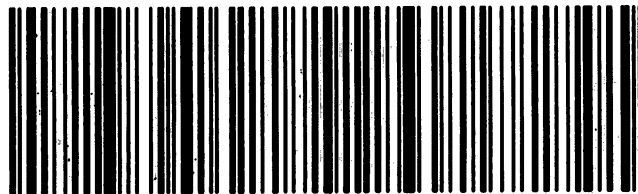
Metr# 9473 0839 0384

0201

WED - 06 JAN 4:30P
STANDARD OVERNIGHT

NA FTCA

80524
CO-US DEN



Client: ALS Environmental
Project: HS21010048
Sample ID: MW-39
Legal Location:
Collection Date: 1/4/2021 12:50

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.26)	U	0.35	pCi/l	NA	1/23/2021 12:27
<i>Carr: BARIUM</i>	98.5		40-110	%REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.81	pCi/l	NA	1/23/2021 08:16
Ra-228	ND (+/- 0.42)	U	0.81	pCi/l	NA	1/18/2021 08:16
<i>Carr: BARIUM</i>	88.7		40-110	%REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-40
Legal Location:
Collection Date: 1/4/2021 11:55

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.3 (+/- 0.22)		SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	98.4			0.22 pCi/l	NA	1/23/2021 12:27
				40-110 %REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	2.34 (+/- 0)		SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
Ra-228	2.04 (+/- 0.64)			0.76 pCi/l	NA	1/23/2021 08:16
<i>Carr: BARIUM</i>	88.6			40-110 %REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-41
Legal Location:
Collection Date: 1/4/2021 10:05

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.24)	U	0.31	pCi/l	NA	1/23/2021 12:27
<i>Carr: BARIUM</i>	93.6		40-110	%REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.74	pCi/l	NA	1/23/2021 08:16
Ra-228	ND (+/- 0.4)	U	0.74	pCi/l	NA	1/18/2021 08:16
<i>Carr: BARIUM</i>	89.2		40-110	%REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-62
Legal Location:
Collection Date: 1/4/2021 13:45

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-4
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.13)	U	0.23	pCi/l	NA	1/23/2021 12:27
Carr: BARIUM	97.6		40-110	%REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	1.62 (+/- 0)		0.81	pCi/l	NA	1/23/2021 08:16
Ra-228	1.62 (+/- 0.58)		0.81	pCi/l	NA	1/18/2021 08:16
Carr: BARIUM	87		40-110	%REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-63
Legal Location:
Collection Date: 1/4/2021 09:00

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-5
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.19)	Y1,U	0.33	pCi/l	NA	1/23/2021 12:27
Carr: BARIUM	100	Y1	40-110	%REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.84	pCi/l	NA	1/23/2021 08:16
Ra-228	ND (+/- 0.4)	U	0.84	pCi/l	NA	1/18/2021 08:16
Carr: BARIUM	87.7		40-110	%REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-64
Legal Location:
Collection Date: 1/4/2021 11:00

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-6
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.23)	U	0.47	pCi/l	NA	1/23/2021 12:27
<i>Carr: BARIUM</i>	99.3		40-110	%REC	DL = NA	1/23/2021 12:27
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.4 (+/- 0)		0.77	pCi/l	NA	1/23/2021 08:16
Ra-228	1.4 (+/- 0.53)		0.77	pCi/l	NA	1/18/2021 08:16
<i>Carr: BARIUM</i>	89.3		40-110	%REC	DL = NA	1/18/2021 08:16

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-23
Legal Location:
Collection Date: 1/4/2021 11:30

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-7
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.21)	U	0.35	pCi/l	NA	1/23/2021 12:50
<i>Carr: BARIUM</i>	96.4		40-110	%REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.92	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.46)	U	0.92	pCi/l	NA	1/18/2021 10:43
<i>Carr: BARIUM</i>	85		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-28D
Legal Location:
Collection Date: 1/4/2021 09:45

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-8
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.17)	U	0.29	pCi/l	NA	1/23/2021 12:50
<i>Carr: BARIUM</i>	98		40-110	%REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.9	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.47)	U	0.9	pCi/l	NA	1/18/2021 10:43
<i>Carr: BARIUM</i>	84.9		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-42
Legal Location:
Collection Date: 1/4/2021 10:25

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-9
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	0.43 (+/- 0.24)		0.22	pCi/l	NA	1/23/2021 12:50
<i>Carr: BARIUM</i>	96.7		40-110	%REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.92	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.44)	U	0.92	pCi/l	NA	1/18/2021 10:43
<i>Carr: BARIUM</i>	88.5		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-43
Legal Location:
Collection Date: 1/4/2021 12:35

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-10
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.2)	U	0.28	pCi/l	NA	1/23/2021 12:50
Carr: BARIUM	97		40-110	%REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.93	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.48)	U	0.93	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	85		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-44
Legal Location:
Collection Date: 1/4/2021 11:30

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-11
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.26)	U	0.35	pCi/l	NA	1/23/2021 12:50
<i>Carr: BARIUM</i>	99.1		40-110	%REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.87	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.46)	U	0.87	pCi/l	NA	1/18/2021 10:43
<i>Carr: BARIUM</i>	85.6		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-46R
Legal Location:
Collection Date: 1/4/2021 10:35

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-12
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.22)	U	SOP 783	0.4 pCi/l	NA	Prep Date: 1/14/2021 PrepBy: TRB 1/23/2021 12:50
Carr: BARIUM	97.9			40-110 %REC	DL = NA	1/23/2021 12:50
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.38 (+/- 0)		SOP 724	0.94 pCi/l	NA	Prep Date: 1/13/2021 PrepBy: RGS 1/23/2021 10:43
Ra-228	1.38 (+/- 0.58)			0.94 pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	84			40-110 %REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-47
Legal Location:
Collection Date: 1/4/2021 12:30

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-13
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.21)	U	0.35	pCi/l	NA	1/23/2021 13:09
Carr: BARIUM	99.9		40-110	%REC	DL = NA	1/23/2021 13:09
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.81	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.39)	U	0.81	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	88.5		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-48
Legal Location:
Collection Date: 1/4/2021 11:40

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-14
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.2)	Y1,U	0.28	pCi/l	NA	1/23/2021 13:09
Carr: BARIUM	102	Y1	40-110	%REC	DL = NA	1/23/2021 13:09
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.88	pCi/l	NA	1/23/2021 10:43
Ra-228	ND (+/- 0.44)	U	0.88	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	86.4		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
 Project: HS21010048
 Sample ID: MW-50
 Legal Location:
 Collection Date: 1/4/2021 13:15

Date: 26-Jan-21
 Work Order: 2101065
 Lab ID: 2101065-15
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.24)	U	0.33	pCi/l	NA	1/25/2021 10:54
Carr: BARIUM	93.4		40-110	%REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.85	pCi/l	NA	1/25/2021 10:43
Ra-228	ND (+/- 0.45)	U	0.85	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	89.3		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-52
Legal Location:
Collection Date: 1/4/2021 12:30

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-16
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.14)	U	SOP 783	0.2 pCi/l	NA	Prep Date: 1/14/2021 PrepBy: TRB 1/25/2021 10:54
Carr: BARIUM	97			40-110 %REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.07 (+/- 0)		SOP 724	0.9 pCi/l	NA	Prep Date: 1/13/2021 PrepBy: RGS 1/25/2021 10:43
Ra-228	1.07 (+/- 0.52)			0.9 pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	87.5			40-110 %REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-54
Legal Location:
Collection Date: 1/4/2021 08:55

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-17
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.26)	U	0.38	pCi/l	NA	1/25/2021 10:54
Carr: BARIUM	91.7		40-110	%REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.76	pCi/l	NA	1/25/2021 10:43
Ra-228	ND (+/- 0.37)	U	0.76	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	89.4		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-55R
Legal Location:
Collection Date: 1/4/2021 09:50

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-18
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.12)	U	0.18	pCi/l	NA	1/25/2021 10:54
<i>Carr: BARIUM</i>	89		40-110	%REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.87	pCi/l	NA	1/25/2021 10:43
Ra-228	ND (+/- 0.43)	U	0.87	pCi/l	NA	1/18/2021 10:43
<i>Carr: BARIUM</i>	84		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
 Project: HS21010048
 Sample ID: MW-58
 Legal Location:
 Collection Date: 1/4/2021 08:55

Date: 26-Jan-21
 Work Order: 2101065
 Lab ID: 2101065-19
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	0.23 (+/- 0.18)		0.21	pCi/l	NA	1/25/2021 10:54
Carr: BARIUM	99		40-110	%REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	1.82 (+/- 0)		0.83	pCi/l	NA	1/25/2021 10:43
Ra-228	1.59 (+/- 0.58)		0.83	pCi/l	NA	1/18/2021 10:43
Carr: BARIUM	82.4		40-110	%REC	DL = NA	1/18/2021 10:43

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-65
Legal Location:
Collection Date: 1/4/2021 10:50

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-20
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021 PrepBy: TRB	
Ra-226	ND (+/- 0.2)	U	0.37	pCi/l	NA	1/25/2021 10:54
Carr: BARIUM	94.7		40-110	%REC	DL = NA	1/25/2021 10:54
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021 PrepBy: RGS	
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.86	pCi/l	NA	1/25/2021 10:54
Ra-228	ND (+/- 0.41)	U	0.86	pCi/l	NA	1/18/2021 10:54
Carr: BARIUM	85.3		40-110	%REC	DL = NA	1/18/2021 10:54

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-36
Legal Location:
Collection Date: 1/4/2021 10:10

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-21
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.24)	U	0.41	pCi/l	NA	1/25/2021 11:13
<i>Carr: BARIUM</i>	93.8		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.91	pCi/l	NA	1/25/2021 10:54
Ra-228	ND (+/- 0.45)	U	0.91	pCi/l	NA	1/18/2021 10:54
<i>Carr: BARIUM</i>	83.8		40-110	%REC	DL = NA	1/18/2021 10:54

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-37
Legal Location:
Collection Date: 1/4/2021 12:30

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-22
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.14)	U	0.32	pCi/l	NA	1/25/2021 11:13
Carr: BARIUM	97.1		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.82	pCi/l	NA	1/25/2021 10:54
Ra-228	ND (+/- 0.41)	U	0.82	pCi/l	NA	1/18/2021 10:54
Carr: BARIUM	88.7		40-110	%REC	DL = NA	1/18/2021 10:54

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-38R
Legal Location:
Collection Date: 1/4/2021 13:10

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-23
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.19)	U	0.34	pCi/l	NA	1/25/2021 11:13
<i>Carr: BARIUM</i>	91.6		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/13/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.82	pCi/l	NA	1/25/2021 10:54
Ra-228	ND (+/- 0.38)	U	0.82	pCi/l	NA	1/18/2021 10:54
<i>Carr: BARIUM</i>	87.3		40-110	%REC	DL = NA	1/18/2021 10:54

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-60
Legal Location:
Collection Date: 1/4/2021 09:15

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-24
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.17)	U	0.27	pCi/l	NA	1/25/2021 11:13
Carr: BARIUM	93.5		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/14/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	1.16 (+/- 0)		0.78	pCi/l	NA	1/25/2021 09:01
Ra-228	1.16 (+/- 0.49)		0.78	pCi/l	NA	1/22/2021 09:01
Carr: BARIUM	87.5		40-110	%REC	DL = NA	1/22/2021 09:01

Client: ALS Environmental
Project: HS21010048
Sample ID: MW-61
Legal Location:
Collection Date: 1/4/2021 11:15

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-25
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.15)	U	0.22	pCi/l	NA	1/25/2021 11:13
Carr: BARIUM	88.4		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/14/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.83	pCi/l	NA	1/25/2021 09:01
Ra-228	ND (+/- 0.43)	U	0.83	pCi/l	NA	1/22/2021 09:01
Carr: BARIUM	87.2		40-110	%REC	DL = NA	1/22/2021 09:01

Client: ALS Environmental
Project: HS21010048
Sample ID: DUP-01
Legal Location:
Collection Date: 1/4/2021 12:00

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-26
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.14)	U	0.31	pCi/l	NA	1/25/2021 11:13
Carr: BARIUM	93.7		40-110	%REC	DL = NA	1/25/2021 11:13
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/14/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	1.18 (+/- 0)		0.8	pCi/l	NA	1/25/2021 09:01
Ra-228	1.18 (+/- 0.5)		0.8	pCi/l	NA	1/22/2021 09:01
Carr: BARIUM	86.9		40-110	%REC	DL = NA	1/22/2021 09:01

Client: ALS Environmental
 Project: HS21010048
 Sample ID: DUP-02
 Legal Location:
 Collection Date: 1/4/2021 10:00

Date: 26-Jan-21
 Work Order: 2101065
 Lab ID: 2101065-27
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.19)	U	0.31	pCi/l	NA	1/25/2021 11:34
Carr: BARIUM	95.4		40-110	%REC	DL = NA	1/25/2021 11:34
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/14/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	0.88 (+/- 0)		0.8	pCi/l	NA	1/25/2021 09:01
Ra-228	0.88 (+/- 0.45)		0.8	pCi/l	NA	1/22/2021 09:01
Carr: BARIUM	87.7		40-110	%REC	DL = NA	1/22/2021 09:01

Client: ALS Environmental
Project: HS21010048
Sample ID: FB-01
Legal Location:
Collection Date: 1/4/2021 11:40

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-28
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 1/14/2021	PrepBy: TRB
Ra-226	ND (+/- 0.14)	U	0.31	pCi/l	NA	1/25/2021 11:34
<i>Carr: BARIUM</i>	91.7		40-110	%REC	DL = NA	1/25/2021 11:34
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 1/14/2021	PrepBy: RGS
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.84	pCi/l	NA	1/25/2021 09:01
Ra-228	ND (+/- 0.45)	U	0.84	pCi/l	NA	1/22/2021 09:01
<i>Carr: BARIUM</i>	87.5		40-110	%REC	DL = NA	1/22/2021 09:01

Client: ALS Environmental
Project: HS21010048
Sample ID: FB-01
Legal Location:
Collection Date: 1/4/2021 11:40

Date: 26-Jan-21
Work Order: 2101065
Lab ID: 2101065-28
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- * - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 1/26/2021 12:50:

Client: ALS Environmental
 Work Order: 2101065
 Project: HS21010048

QC BATCH REPORT

Batch ID: **RE210114-4-1** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

DUP Sample ID: **2101065-5** Units: **pCi/l** Analysis Date: **1/23/2021 12:27**

Client ID: **MW-63** Run ID: **RE210114-4A** Prep Date: **1/14/2021** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	0.46 (+/- 0.29)	0.29						0.1	1.04	2.13	
Carr: BARIUM	16890		17590		96.1	40-110		17660			

LCS Sample ID: **RE210114-4** Units: **pCi/l** Analysis Date: **1/23/2021 13:09**

Client ID: Run ID: **RE210114-4A** Prep Date: **1/14/2021** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	42 (+/- 10)	0	46.8		88.8	67-120					P, Y1
Carr: BARIUM	17760		17520		101	40-110					Y1

LCSD Sample ID: **RE210114-4** Units: **pCi/l** Analysis Date: **1/23/2021 13:25**

Client ID: Run ID: **RE210114-4A** Prep Date: **1/14/2021** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	46 (+/- 11)	0	46.8		97.8	67-120		42	0.27	2.13	P
Carr: BARIUM	17290		17520		98.7	40-110		17760			

MB Sample ID: **RE210114-4** Units: **pCi/l** Analysis Date: **1/23/2021 13:09**

Client ID: Run ID: **RE210114-4A** Prep Date: **1/14/2021** DF: **NA**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.33									U
Carr: BARIUM	17030		17510		97.2	40-110					

The following samples were analyzed in this batch:

2101065-1	2101065-2	2101065-3
2101065-4	2101065-5	2101065-6
2101065-7	2101065-8	2101065-9
2101065-10	2101065-11	2101065-12
2101065-13	2101065-14	

Client: ALS Environmental
 Work Order: 2101065
 Project: HS21010048

QC BATCH REPORT

Batch ID: RE210114-5-1 Instrument ID: Alpha Scin Method: Radium-226 by Radon Emanation

DUP Sample ID: 2101065-19 Units: pCi/l Analysis Date: 1/25/2021 10:54
 Client ID: MW-58 Run ID: RE210114-5A Prep Date: 1/14/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.32						0.23	0.43	2.13	U
Carr: BARIUM	16410		18080		90.8	40-110		17910			

LCS Sample ID: RE210114-5 Units: pCi/l Analysis Date: 1/25/2021 11:34
 Client ID: Run ID: RE210114-5A Prep Date: 1/14/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	45 (+/- 11)	0	46.8		96.9	67-120					P
Carr: BARIUM	16310		17850		91.4	40-110					

LCSD Sample ID: RE210114-5 Units: pCi/l Analysis Date: 1/25/2021 11:53
 Client ID: Run ID: RE210114-5A Prep Date: 1/14/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	52 (+/- 13)	0	46.8		110	67-120		45	0.37	2.13	P
Carr: BARIUM	17200		17850		96.4	40-110		16310			

MB Sample ID: RE210114-5 Units: pCi/l Analysis Date: 1/25/2021 11:34
 Client ID: Run ID: RE210114-5A Prep Date: 1/14/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.39									U
Carr: BARIUM	17130		17850		95.9	40-110					

The following samples were analyzed in this batch:

2101065-15	2101065-16	2101065-17
2101065-18	2101065-19	2101065-20
2101065-21	2101065-22	2101065-23
2101065-24	2101065-25	2101065-26
2101065-27	2101065-28	

Client: ALS Environmental
 Work Order: 2101065
 Project: HS21010048

QC BATCH REPORT

Batch ID: RA210113-1-1 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

DUP		Sample ID: 2101065-5		Units: ug			Analysis Date: 1/18/2021 08:16				
Client ID: MW-63		Run ID: RA210113-1A			Prep Date: 1/13/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	33590		37280		90.1	40-110		32700			
Ra-228	ND	0.78						0.37	0.62	2.13	U

LCS		Sample ID: RA210113-1		Units: ug			Analysis Date: 1/18/2021 08:16				
Client ID:		Run ID: RA210113-1A			Prep Date: 1/13/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	33920		37210		91.2	40-110					
Ra-228	22.4 (+/- 5.2)	0.8	22.84		98.1	70-130					P

MB		Sample ID: RA210113-1		Units: ug			Analysis Date: 1/18/2021 08:16				
Client ID:		Run ID: RA210113-1A			Prep Date: 1/13/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	33450		37210		89.9	40-110					
Ra-228	ND	0.8									U

The following samples were analyzed in this batch:

2101065-1	2101065-2	2101065-3
2101065-4	2101065-5	2101065-6

Client: ALS Environmental
 Work Order: 2101065
 Project: HS21010048

QC BATCH REPORT

Batch ID: RA210113-2-1 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

DUP		Sample ID: 2101065-19		Units: ug		Analysis Date: 1/18/2021 10:43					
Client ID: MW-58		Run ID: RA210113-2A		Prep Date: 1/13/2021			DF: NA				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	32020		36930		86.7	40-110		30430			
Ra-228	ND	0.78						1.59	1.45	2.13	U

LCS		Sample ID: RA210113-2		Units: ug		Analysis Date: 1/18/2021 10:54					
Client ID:		Run ID: RA210113-2A		Prep Date: 1/13/2021			DF: NA				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	32290		36730		87.9	40-110					
Ra-228	17.5 (+/- 4.1)	0.8	22.84		76.7	70-130					P

MB		Sample ID: RA210113-2		Units: ug		Analysis Date: 1/18/2021 10:54					
Client ID:		Run ID: RA210113-2A		Prep Date: 1/13/2021			DF: NA				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	32830		36710		89.4	40-110					
Ra-228	ND	0.83									U

The following samples were analyzed in this batch:

2101065-7	2101065-8	2101065-9
2101065-10	2101065-11	2101065-12
2101065-13	2101065-14	2101065-15
2101065-16	2101065-17	2101065-18
2101065-19	2101065-20	2101065-21
2101065-22	2101065-23	

Client: ALS Environmental
 Work Order: 2101065
 Project: HS21010048

QC BATCH REPORT

Batch ID: RA210114-1 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

LCS		Sample ID: RA210114-1		Units: ug			Analysis Date: 1/22/2021 09:01				
Client ID:		Run ID: RA210114-1A			Prep Date: 1/14/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	33620		37900		88.7	40-110					
Ra-228	27 (+/- 6.3)	0.9	22.81		119	70-130					P

LCSD		Sample ID: RA210114-1		Units: ug			Analysis Date: 1/22/2021 09:01				
Client ID:		Run ID: RA210114-1A			Prep Date: 1/14/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	32690		37930		86.2	40-110		33620			
Ra-228	24.2 (+/- 5.7)	0.9	22.81		106	70-130		27	0.34	2.13	P

MB		Sample ID: RA210114-1		Units: ug			Analysis Date: 1/22/2021 09:01				
Client ID:		Run ID: RA210114-1A			Prep Date: 1/14/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	33310		37920		87.8	40-110					
Ra-228	ND	0.83									U

The following samples were analyzed in this batch:

2101065-24	2101065-25	2101065-26
2101065-27	2101065-28	



1-Feb-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21010048**

Work Order: **21010336**

Dear Corey,

ALS Environmental received 28 samples on 06-Jan-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, larger version of the same signature.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental The logo icon for ALS Environmental, a stylized blue triangle with a yellow flame-like shape inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER
Privileged and Confidential
Page 126 of 170

Client: ALS Environmental
Project: HS21010048
Work Order: 21010336

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_210108C, 11A, 11B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21010335, 21010336					
Analyst Name: QN		Date 1/8-1/11/21	Reviewer Name: RM		Date: 1/8/21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < 1/2 MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER # ¹	DESCRIPTION		
1	No Exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: ALS Environmental
 Project: HS21010048
 Work Order: 21010336

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21010336-01	HS21010048-01	Groundwater	MW-39	1/4/2021 12:50	1/6/2021 10:00	<input type="checkbox"/>
21010336-02	HS21010048-02	Groundwater	MW-40	1/4/2021 11:55	1/6/2021 10:00	<input type="checkbox"/>
21010336-03	HS21010048-03	Groundwater	MW-41	1/4/2021 10:05	1/6/2021 10:00	<input type="checkbox"/>
21010336-04	HS21010048-04	Groundwater	MW-62	1/4/2021 13:45	1/6/2021 10:00	<input type="checkbox"/>
21010336-05	HS21010048-05	Groundwater	MW-63	1/4/2021 09:00	1/6/2021 10:00	<input type="checkbox"/>
21010336-06	HS21010048-06	Groundwater	MW-64	1/4/2021 11:00	1/6/2021 10:00	<input type="checkbox"/>
21010336-07	HS21010048-07	Groundwater	MW-23	1/4/2021 11:30	1/6/2021 10:00	<input type="checkbox"/>
21010336-08	HS21010048-08	Groundwater	MW-28D	1/4/2021 09:45	1/6/2021 10:00	<input type="checkbox"/>
21010336-09	HS21010048-09	Groundwater	MW-42	1/4/2021 10:25	1/6/2021 10:00	<input type="checkbox"/>
21010336-10	HS21010048-10	Groundwater	MW-43	1/4/2021 12:35	1/6/2021 10:00	<input type="checkbox"/>
21010336-11	HS21010048-11	Groundwater	MW-44	1/4/2021 11:30	1/6/2021 10:00	<input type="checkbox"/>
21010336-12	HS21010048-12	Groundwater	MW-46R	1/4/2021 10:35	1/6/2021 10:00	<input type="checkbox"/>
21010336-13	HS21010048-13	Groundwater	MW-47	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010336-14	HS21010048-14	Groundwater	MW-48	1/4/2021 11:40	1/6/2021 10:00	<input type="checkbox"/>
21010336-15	HS21010048-15	Groundwater	MW-50	1/4/2021 13:15	1/6/2021 10:00	<input type="checkbox"/>
21010336-16	HS21010048-16	Groundwater	MW-52	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010336-17	HS21010048-17	Groundwater	MW-54	1/4/2021 08:55	1/6/2021 10:00	<input type="checkbox"/>
21010336-18	HS21010048-18	Groundwater	MW-55R	1/4/2021 09:50	1/6/2021 10:00	<input type="checkbox"/>
21010336-19	HS21010048-19	Groundwater	MW-58	1/4/2021 08:55	1/6/2021 10:00	<input type="checkbox"/>
21010336-20	HS21010048-20	Groundwater	MW-65	1/4/2021 10:50	1/6/2021 10:00	<input type="checkbox"/>
21010336-21	HS21010048-21	Groundwater	MW-36	1/4/2021 10:10	1/6/2021 10:00	<input type="checkbox"/>
21010336-22	HS21010048-22	Groundwater	MW-37	1/4/2021 12:30	1/6/2021 10:00	<input type="checkbox"/>
21010336-23	HS21010048-23	Groundwater	MW-38R	1/4/2021 13:10	1/6/2021 10:00	<input type="checkbox"/>
21010336-24	HS21010048-24	Groundwater	MW-60	1/4/2021 09:15	1/6/2021 10:00	<input type="checkbox"/>
21010336-25	HS21010048-25	Groundwater	MW-61	1/4/2021 11:15	1/6/2021 10:00	<input type="checkbox"/>
21010336-26	HS21010048-26	Groundwater	DUP-01	1/4/2021 12:00	1/6/2021 10:00	<input type="checkbox"/>
21010336-27	HS21010048-27	Groundwater	DUP-02	1/4/2021 10:00	1/6/2021 10:00	<input type="checkbox"/>
21010336-28	HS21010048-28	Water	FB-01	1/4/2021 11:40	1/6/2021 10:00	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21010048
WorkOrder: 21010336

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21010336
Client: ALS Environmental
Project: HS21010048

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R307611 **Test Name:** Fluoride

21010336-01A	HS21010048-01	Groundwater	1/4/2021 12:50:00 PM			1/8/2021 03:29 PM
21010336-02A	HS21010048-02		1/4/2021 11:55:00 AM			1/8/2021 03:29 PM
21010336-03A	HS21010048-03		1/4/2021 10:05:00 AM			1/8/2021 03:29 PM
21010336-04A	HS21010048-04		1/4/2021 1:45:00 PM			1/8/2021 03:29 PM
21010336-05A	HS21010048-05		1/4/2021 9:00:00 AM			1/8/2021 03:29 PM
21010336-06A	HS21010048-06		1/4/2021 11:00:00 AM			1/8/2021 03:29 PM

Work Order: 21010336
 Client: ALS Environmental
 Project: HS21010048

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R307694 Test Name: Fluoride						
21010336-07A	HS21010048-07	Groundwater	1/4/2021 11:30:00 AM			1/11/2021 12:49 PM
21010336-08A	HS21010048-08		1/4/2021 9:45:00 AM			1/11/2021 12:49 PM
21010336-09A	HS21010048-09		1/4/2021 10:25:00 AM			1/11/2021 12:49 PM
21010336-10A	HS21010048-10		1/4/2021 12:35:00 PM			1/11/2021 12:49 PM
21010336-11A	HS21010048-11		1/4/2021 11:30:00 AM			1/11/2021 12:49 PM
21010336-12A	HS21010048-12		1/4/2021 10:35:00 AM			1/11/2021 12:49 PM
21010336-13A	HS21010048-13		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010336-14A	HS21010048-14		1/4/2021 11:40:00 AM			1/11/2021 12:49 PM
21010336-15A	HS21010048-15		1/4/2021 1:15:00 PM			1/11/2021 12:49 PM
21010336-16A	HS21010048-16		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010336-17A	HS21010048-17		1/4/2021 8:55:00 AM			1/11/2021 12:49 PM
21010336-18A	HS21010048-18		1/4/2021 9:50:00 AM			1/11/2021 12:49 PM
21010336-19A	HS21010048-19		1/4/2021 8:55:00 AM			1/11/2021 12:49 PM
21010336-20A	HS21010048-20		1/4/2021 10:50:00 AM			1/11/2021 12:49 PM
21010336-21A	HS21010048-21		1/4/2021 10:10:00 AM			1/11/2021 12:49 PM
21010336-22A	HS21010048-22		1/4/2021 12:30:00 PM			1/11/2021 12:49 PM
21010336-23A	HS21010048-23		1/4/2021 1:10:00 PM			1/11/2021 12:49 PM
21010336-24A	HS21010048-24		1/4/2021 9:15:00 AM			1/11/2021 12:49 PM
21010336-25A	HS21010048-25		1/4/2021 11:15:00 AM			1/11/2021 12:49 PM
21010336-26A	HS21010048-26		1/4/2021 12:00:00 PM			1/11/2021 12:49 PM
Batch ID R307709 Test Name: Fluoride						
21010336-27A	HS21010048-27	Groundwater	1/4/2021 10:00:00 AM			1/11/2021 03:16 PM
21010336-28A	HS21010048-28	Water	1/4/2021 11:40:00 AM			1/11/2021 03:16 PM

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-01
Collection Date: 1/4/2021 12:50 PM

Work Order: 21010336
Lab ID: 21010336-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.10		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-02
Collection Date: 1/4/2021 11:55 AM

Work Order: 21010336
Lab ID: 21010336-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.11		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-03
Collection Date: 1/4/2021 10:05 AM

Work Order: 21010336
Lab ID: 21010336-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.15		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-04
Collection Date: 1/4/2021 01:45 PM

Work Order: 21010336
Lab ID: 21010336-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.17		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-05
Collection Date: 1/4/2021 09:00 AM

Work Order: 21010336
Lab ID: 21010336-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.11		0.058	0.10	mg/L	1	1/8/2021 15:29

Method: A4500-F C-11 Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-06
Collection Date: 1/4/2021 11:00 AM

Work Order: 21010336
Lab ID: 21010336-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	1/8/2021 15:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-07
Collection Date: 1/4/2021 11:30 AM

Work Order: 21010336
Lab ID: 21010336-07
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-08
Collection Date: 1/4/2021 09:45 AM

Work Order: 21010336
Lab ID: 21010336-08
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.35		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-09
Collection Date: 1/4/2021 10:25 AM

Work Order: 21010336
Lab ID: 21010336-09
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.60		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-10
Collection Date: 1/4/2021 12:35 PM

Work Order: 21010336
Lab ID: 21010336-10
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.61		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-11
Collection Date: 1/4/2021 11:30 AM

Work Order: 21010336
Lab ID: 21010336-11
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-12
Collection Date: 1/4/2021 10:35 AM

Work Order: 21010336
Lab ID: 21010336-12
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.40		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-13
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010336
Lab ID: 21010336-13
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.45		0.058	0.10	mg/L	1	1/11/2021 12:49

Method: A4500-F C-11

Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-14
Collection Date: 1/4/2021 11:40 AM

Work Order: 21010336
Lab ID: 21010336-14
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.73		0.058	0.10	mg/L	1	1/11/2021 12:49

Method: A4500-F C-11 Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-15
Collection Date: 1/4/2021 01:15 PM

Work Order: 21010336
Lab ID: 21010336-15
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.48		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-16
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010336
Lab ID: 21010336-16
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.53		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-17
Collection Date: 1/4/2021 08:55 AM

Work Order: 21010336
Lab ID: 21010336-17
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.52		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-18
Collection Date: 1/4/2021 09:50 AM

Work Order: 21010336
Lab ID: 21010336-18
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.74		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-19
Collection Date: 1/4/2021 08:55 AM

Work Order: 21010336
Lab ID: 21010336-19
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-20
Collection Date: 1/4/2021 10:50 AM

Work Order: 21010336
Lab ID: 21010336-20
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-21
Collection Date: 1/4/2021 10:10 AM

Work Order: 21010336
Lab ID: 21010336-21
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-22
Collection Date: 1/4/2021 12:30 PM

Work Order: 21010336
Lab ID: 21010336-22
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.27		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-23
Collection Date: 1/4/2021 01:10 PM

Work Order: 21010336
Lab ID: 21010336-23
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.26		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-24
Collection Date: 1/4/2021 09:15 AM

Work Order: 21010336
Lab ID: 21010336-24
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-25
Collection Date: 1/4/2021 11:15 AM

Work Order: 21010336
Lab ID: 21010336-25
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.32		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-26
Collection Date: 1/4/2021 12:00 PM

Work Order: 21010336
Lab ID: 21010336-26
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	1/11/2021 12:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-27
Collection Date: 1/4/2021 10:00 AM

Work Order: 21010336
Lab ID: 21010336-27
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.44		0.058	0.10	mg/L	1	1/11/2021 15:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 12-Jan-21

Client: ALS Environmental
Project: HS21010048
Sample ID: HS21010048-28
Collection Date: 1/4/2021 11:40 AM

Work Order: 21010336
Lab ID: 21010336-28
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	1/11/2021 15:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21010336
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A Fluoride	16984-48-8	0.080	0.090	0.058	0.10

Client: ALS Environmental
 Work Order: 21010336
 Project: HS21010048

QC BATCH REPORT

Batch ID: **R307611** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307611-R307611				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059427		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R307611-R307611				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059428		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.02	0.10	5	0	100	80-120	0			

MS		Sample ID: 21010335-05AMS				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059447		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.75	0.10	5	0.11	92.8	75-125	0			

MS		Sample ID: 21010335-05AMS				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID: HS21010048-05		Run ID: TITRATOR 1_210108C				SeqNo: 7059455		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.75	0.10	5	0.11	92.8	75-125	0			

MSD		Sample ID: 21010335-05AMSD				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID:		Run ID: TITRATOR 1_210108C				SeqNo: 7059448		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.73	0.10	5	0.11	92.4	75-125	4.75	0.422	20	

MSD		Sample ID: 21010335-05AMSD				Units: mg/L		Analysis Date: 1/8/2021 03:29 PM		
Client ID: HS21010048-05		Run ID: TITRATOR 1_210108C				SeqNo: 7059456		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.73	0.10	5	0.11	92.4	75-125	4.75	0.422	20	

The following samples were analyzed in this batch:

21010336-01A	21010336-02A	21010336-03A
21010336-04A	21010336-05A	21010336-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21010336
 Project: HS21010048

QC BATCH REPORT

Batch ID: **R307694** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307694-R307694				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A				SeqNo: 7062332		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride U 0.10

LCS		Sample ID: LCS-R307694-R307694				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A				SeqNo: 7062333		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 4.84 0.10 5 0 96.8 80-120 0

MS		Sample ID: 21010335-19AMS				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A				SeqNo: 7062347		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 0

MS		Sample ID: 21010336-19AMS				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID: HS21010048-19		Run ID: TITRATOR 1_210111A				SeqNo: 7062369		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 0

MSD		Sample ID: 21010335-19AMSD				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID:		Run ID: TITRATOR 1_210111A				SeqNo: 7062348		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 5.19 0 20

MSD		Sample ID: 21010336-19AMSD				Units: mg/L		Analysis Date: 1/11/2021 12:49 PM		
Client ID: HS21010048-19		Run ID: TITRATOR 1_210111A				SeqNo: 7062370		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.44 95 75-125 5.19 0 20

The following samples were analyzed in this batch:

21010336-07A	21010336-08A	21010336-09A
21010336-10A	21010336-11A	21010336-12A
21010336-13A	21010336-14A	21010336-15A
21010336-16A	21010336-17A	21010336-18A
21010336-19A	21010336-20A	21010336-21A
21010336-22A	21010336-23A	21010336-24A
21010336-25A	21010336-26A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21010336
 Project: HS21010048

QC BATCH REPORT

Batch ID: **R307709** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R307709-R307709				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062834		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	U	0.10									

LCS		Sample ID: LCS-R307709-R307709				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062835		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	4.93	0.10	5	0	98.6	80-120	0				

MS		Sample ID: 21010331-01G MS				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062837		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5.02	0.10	5	0.08	98.8	75-125	0				

MSD		Sample ID: 21010331-01G MSD				Units: mg/L		Analysis Date: 1/11/2021 03:16 PM			
Client ID:		Run ID: TITRATOR 1_210111B				SeqNo: 7062838		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5	0.10	5	0.08	98.4	75-125	5.02	0.399	20		

The following samples were analyzed in this batch:

21010336-27A	21010336-28A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



21010336

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Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15435

SUBCONTRACT TO:

ALS Group USA, Corp.
3352 - 128th Ave
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
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Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21010048
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21010048-01	MW-39	Groundwater	04 Jan 2021 12:50
	Fluoride by ISE 4500			12 Jan 2021
2.	HS21010048-02	MW-40	Groundwater	04 Jan 2021 11:55
	Fluoride by ISE 4500			12 Jan 2021
3.	HS21010048-03	MW-41	Groundwater	04 Jan 2021 10:05
	Fluoride by ISE 4500			12 Jan 2021
4.	HS21010048-04	MW-62	Groundwater	04 Jan 2021 13:45
	Fluoride by ISE 4500			12 Jan 2021
5.	HS21010048-05	MW-63	Groundwater	04 Jan 2021 09:00
	Fluoride by ISE 4500			12 Jan 2021
6.	HS21010048-06	MW-64	Groundwater	04 Jan 2021 11:00
	Fluoride by ISE 4500			12 Jan 2021
7.	HS21010048-07	MW-23	Groundwater	04 Jan 2021 11:30
	Fluoride by ISE 4500			12 Jan 2021
8.	HS21010048-08	MW-28D	Groundwater	04 Jan 2021 09:45
	Fluoride by ISE 4500			12 Jan 2021
9.	HS21010048-09	MW-42	Groundwater	04 Jan 2021 10:25



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15435

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Fluoride by ISE 4500			12 Jan 2021
10. HS21010048-10	MW-43	Groundwater	04 Jan 2021 12:35
Fluoride by ISE 4500			12 Jan 2021
11. HS21010048-11	MW-44	Groundwater	04 Jan 2021 11:30
Fluoride by ISE 4500			12 Jan 2021
12. HS21010048-12	MW-46R	Groundwater	04 Jan 2021 10:35
Fluoride by ISE 4500			12 Jan 2021
13. HS21010048-13	MW-47	Groundwater	04 Jan 2021 12:30
Fluoride by ISE 4500			12 Jan 2021
14. HS21010048-14	MW-48	Groundwater	04 Jan 2021 11:40
Fluoride by ISE 4500			12 Jan 2021
15. HS21010048-15	MW-50	Groundwater	04 Jan 2021 13:15
Fluoride by ISE 4500			12 Jan 2021
16. HS21010048-16	MW-52	Groundwater	04 Jan 2021 12:30
Fluoride by ISE 4500			12 Jan 2021
17. HS21010048-17	MW-54	Groundwater	04 Jan 2021 08:55
Fluoride by ISE 4500			12 Jan 2021
18. HS21010048-18	MW-55R	Groundwater	04 Jan 2021 09:50
Fluoride by ISE 4500			12 Jan 2021
19. HS21010048-19	MW-58	Groundwater	04 Jan 2021 08:55
Fluoride by ISE 4500			12 Jan 2021
20. HS21010048-20	MW-65	Groundwater	04 Jan 2021 10:50
Fluoride by ISE 4500			12 Jan 2021
21. HS21010048-21	MW-36	Groundwater	04 Jan 2021 10:10
Fluoride by ISE 4500			12 Jan 2021
22. HS21010048-22	MW-37	Groundwater	04 Jan 2021 12:30
Fluoride by ISE 4500			12 Jan 2021
23. HS21010048-23	MW-38R	Groundwater	04 Jan 2021 13:10
Fluoride by ISE 4500			12 Jan 2021
24. HS21010048-24	MW-60	Groundwater	04 Jan 2021 09:15
Fluoride by ISE 4500			12 Jan 2021



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15435

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE	ANALYSIS REQUESTED	DUE DATE
25. HS21010048-25	MW-61	Groundwater	04 Jan 2021 11:15	Fluoride by ISE 4500	12 Jan 2021
26. HS21010048-26	DUP-01	Groundwater	04 Jan 2021 12:00	Fluoride by ISE 4500	12 Jan 2021
27. HS21010048-27	DUP-02	Groundwater	04 Jan 2021 10:00	Fluoride by ISE 4500	12 Jan 2021
28. HS21010048-28	FB-01	Groundwater	04 Jan 2021 11:40	Fluoride by ISE 4500	12 Jan 2021

Comments: Please analyze for the analysis listed above. Send report to the emails shown above. HS21010048-05 & HS21010048-19 = MS/MSD. Import data from HS21010047

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: [Signature]

Received By: [Signature]

Cooler ID(s): _____

Date/Time: 11/5/2021 1800.

Date/Time: 1/6/21 1000

Temperature(s): 1P1 2.8°C pH24

[Handwritten mark]

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **06-Jan-21 10:00**

Work Order: **21010336**

Received by: **DS**

Checklist completed by Diane Shaw 07-Jan-21
eSignature Date

Reviewed by: Chad Whelton 07-Jan-21
eSignature Date

Matrices: Groundwater

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 2.8/2.8 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 1/7/2021 8:42:13 AM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix B

Detection Monitoring Data (April 2021)



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 1, 2021

Lori Burris
TRC Corporation
16350 Park Ten Place
Suite 101
Houston, TX 77084

Work Order: **HS21040493**

Laboratory Results for: **NRG WA Parish - Appendix III**

Dear Lori Burris,

ALS Environmental received 27 sample(s) on Apr 09, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group		LRC Date: 06/01/2021					
Project Name: NRG WA Parish - State Program		Laboratory Job Number: HS21040493					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 164671,164672,164673,R381765,R381785,R381864,R381865,R382016					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				3
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group	LRC Date: 06/01/2021
Project Name: NRG WA Parish - State Program	Laboratory Job Number: HS21040493
Reviewer Name: Corey Grandits	Prep Batch Number(s): 164671,164672,164673,R381765,R381785,R381864,R381865,R382016

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			4
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			5
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 04/20/2021
Project Name: NRG WA Parish - State Program	Laboratory Job Number: HS21040493
Reviewer Name: Corey Grandits	Prep Batch Number(s): 164671,164672,164673,R381765,R381785,R381864,R381865,R382016

ER# ⁵	Description
1	<p>Batch 164671, Metals Method SW6020, samples HS21040223-02 and HS21040490-02, MS and MSD were performed on unrelated sample.</p> <p>Batch 164672, Metals Method SW6020, sample HS21040490-08MS, MS and MSD were performed on unrelated sample.</p> <p>Batch 164872, Metals Method SW6020, sample MW-63, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 164873, Metals Method SW6020, sample MW-58, MS and or MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R381864, Anions Method E300, sample MW-61, MS and or MSD recovered outside the control limit for Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R381864, Anions Method E300, samples HS21040490-02 and HS21040490-21, MS and MSD were performed on unrelated sample.</p> <p>Batch R381865, Anions Method E300, sample MW-63, MSD recovered outside the control limit for Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p>
2	Batch R381785, Total Dissolved Solids, Method SM2540C, The RPD between the sample and its duplicate was outside the control limit.
3	The analysis for Fluoride was subcontracted to ALS Holland, MI. Final report attached.
4	See Run Log and CCB Exceptions Report.
5	<p>Batch 164873, Metals Method SW6020, sample MW-58. PDS recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 164873, Metals Method SW6020, sample MW-58, The percent difference between the results of the sample and the serial dilution were greater than 10% for Boron.</p>

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21040493
 Start Date: 16-Apr-2021

End Date: 17-Apr-2021

Run ID:ICPMS06_381760
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
ICV	1	16-Apr-2021 10:20	017_ICV.d	B CA
LLICV2	1	16-Apr-2021 10:24	019LCV2.d	B CA
LLICV5	1	16-Apr-2021 10:26	020LCV5.d	B CA
ICB	1	16-Apr-2021 10:32	021_ICB.d	B CA
ICSA	1	16-Apr-2021 10:34	022ICSA.d	B CA
ICSAB	1	16-Apr-2021 10:36	023ICSB.d	B CA
CCV 1	1	16-Apr-2021 10:45	025_CCV.d	B CA
CCB 1	1	16-Apr-2021 10:47	026_CCB.d	B CA
CCV 2	1	16-Apr-2021 11:15	037_CCV.d	B CA
CCB 2	1	16-Apr-2021 11:17	038_CCB.d	B CA
CCV 3	1	16-Apr-2021 12:09	050_CCV.d	B CA
CCB 3	1	16-Apr-2021 12:11	051_CCB.d	B CA
CCV 4	1	16-Apr-2021 12:33	060_CCV.d	B CA
CCB 4	1	16-Apr-2021 12:34	061_CCB.d	B CA
CCB 5	1	16-Apr-2021 13:07	072_CCB.d	B CA
CCV 5	1	16-Apr-2021 13:09	073_CCV.d	B CA
CCV 6	1	16-Apr-2021 13:33	084_CCV.d	B CA
CCB 6	1	16-Apr-2021 13:35	085_CCB.d	B CA
MBLK-164671	1	16-Apr-2021 13:56	093SMPL.d	B CA
LCS-164671	1	16-Apr-2021 13:58	094SMPL.d	B CA
CCV 7	1	16-Apr-2021 14:02	096_CCV.d	B CA
CCB 7	1	16-Apr-2021 14:04	097_CCB.d	B CA
ZZZZZSD	5	16-Apr-2021 14:08	099SMPL.d	
ZZZZZMS	1	16-Apr-2021 14:10	100SMPL.d	CA
ZZZZZMSD	1	16-Apr-2021 14:12	101SMPL.d	CA
CCV 8	1	16-Apr-2021 14:37	108_CCV.d	B CA
CCB 8	1	16-Apr-2021 14:39	109_CCB.d	B CA
CCV 9	1	16-Apr-2021 14:56	113_CCV.d	B CA
CCB 9	1	16-Apr-2021 14:58	114_CCB.d	B CA
ZZZZZSD	5	16-Apr-2021 15:02	116SMPL.d	
ZZZZZMS	1	16-Apr-2021 15:04	117SMPL.d	B CA
ZZZZZMSD	1	16-Apr-2021 15:06	118SMPL.d	B CA
ZZZZZPDS	1	16-Apr-2021 15:09	119SMPL.d	
CCV 10	1	16-Apr-2021 15:26	125_CCV.d	B CA
CCB 10	1	16-Apr-2021 15:35	128_CCB.d	B CA
ZZZZZSD	5	16-Apr-2021 15:52	134SMPL.d	
ZZZZZMS	1	16-Apr-2021 15:54	135SMPL.d	B
ZZZZZMSD	1	16-Apr-2021 15:56	136SMPL.d	B
ZZZZZPDS	1	16-Apr-2021 15:58	137SMPL.d	B
CCV 11	1	16-Apr-2021 16:04	139_CCV.d	B CA
CCB 11	1	16-Apr-2021 16:10	141_CCB.d	B CA
ZZZZZSD	500	16-Apr-2021 16:22	147SMPL.d	CA
ZZZZZPDS	100	16-Apr-2021 16:24	148SMPL.d	CA
ZZZZZSD	250	16-Apr-2021 16:28	150SMPL.d	B CA
ZZZZZPDS	50	16-Apr-2021 16:30	151SMPL.d	B CA
CCV 12	1	16-Apr-2021 16:32	152_CCV.d	B CA
CCB 12	1	16-Apr-2021 16:34	153_CCB.d	B CA
CCB 13	1	16-Apr-2021 17:05	165_CCB.d	B CA
CCV 13	1	16-Apr-2021 17:12	166_CCV.d	B CA
ZZZZZPDS	100	16-Apr-2021 17:17	168SMPL.d	
ZZZZZPDS	50	16-Apr-2021 17:19	169SMPL.d	

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21040493
 Start Date: 16-Apr-2021

End Date: 17-Apr-2021

Run ID:ICPMS06_381760
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
CCV 14	1	16-Apr-2021 17:40	177_CCV.d	B CA
CCB 14	1	16-Apr-2021 17:42	178_CCB.d	B CA
CCV 15	1	16-Apr-2021 18:05	189_CCV.d	B CA
CCB 15	1	16-Apr-2021 18:07	190_CCB.d	B CA
CCV 16	1	16-Apr-2021 18:29	201_CCV.d	B CA
CCB 16	1	16-Apr-2021 18:31	202_CCB.d	B CA
CCV 17	1	16-Apr-2021 18:47	207_CCV.d	B CA
CCB 17	1	16-Apr-2021 18:51	209_CCB.d	B CA
MW-40	1	16-Apr-2021 18:53	210SMPL.d	B
MW-41	1	16-Apr-2021 18:56	211SMPL.d	B CA
MW-62	1	16-Apr-2021 18:58	212SMPL.d	B CA
MW-64	1	16-Apr-2021 19:00	213SMPL.d	B
MW-23R	1	16-Apr-2021 19:02	214SMPL.d	B
MW-28D	1	16-Apr-2021 19:04	215SMPL.d	B CA
MW-42	1	16-Apr-2021 19:06	216SMPL.d	B CA
MW-43	1	16-Apr-2021 19:08	217SMPL.d	B CA
MBLK-164673	1	16-Apr-2021 19:10	218SMPL.d	B CA
LCS-164673	1	16-Apr-2021 19:12	219SMPL.d	B CA
CCV 18	1	16-Apr-2021 19:14	220_CCV.d	B CA
CCB 18	1	16-Apr-2021 19:16	221_CCB.d	B CA
CCV 19	1	16-Apr-2021 20:59	225_CCV.d	B CA
CCB 19	1	16-Apr-2021 21:00	226_CCB.d	B CA
MW-58	1	16-Apr-2021 21:03	227SMPL.d	B CA
MW-58SD	5	16-Apr-2021 21:05	228SMPL.d	B CA
MW-58MS	1	16-Apr-2021 21:07	229SMPL.d	B CA
MW-58MSD	1	16-Apr-2021 21:09	230SMPL.d	B CA
CCV 20	1	16-Apr-2021 21:13	232_CCV.d	B CA
CCB 20	1	16-Apr-2021 21:15	233_CCB.d	B CA
CCV 21	1	16-Apr-2021 21:31	235_CCV.d	B CA
CCV 22	1	16-Apr-2021 21:52	245_CCV.d	B CA
CCB 21	1	16-Apr-2021 21:54	246_CCB.d	B CA
CCV 23	1	16-Apr-2021 22:17	257_CCV.d	B CA
CCB 22	1	16-Apr-2021 22:19	258_CCB.d	B CA
CCV 24	1	16-Apr-2021 22:40	268_CCV.d	B CA
CCB 23	1	16-Apr-2021 22:42	269_CCB.d	B CA
CCV 25	1	16-Apr-2021 22:54	275_CCV.d	B CA
CCB 24	1	16-Apr-2021 22:56	276_CCB.d	B CA
ICSA	1	16-Apr-2021 22:59	277ICSA.d	B CA
ICSAB	1	16-Apr-2021 23:01	278ICSB.d	B CA
CCV 26	1	16-Apr-2021 23:15	285_CCV.d	B CA
CCB 25	1	16-Apr-2021 23:17	286_CCB.d	B CA
CCV 27	1	16-Apr-2021 23:34	294_CCV.d	B CA
CCB 26	1	16-Apr-2021 23:36	295_CCB.d	B CA
CCV 28	1	16-Apr-2021 23:54	304_CCV.d	B CA
CCB 27	1	16-Apr-2021 23:56	305_CCB.d	B CA
MBLK-164672	1	16-Apr-2021 23:58	306SMPL.d	B CA
LCS-164672	1	17-Apr-2021 00:01	307SMPL.d	B CA
ZZZZZSD	5	17-Apr-2021 00:05	309SMPL.d	B CA
ZZZZZMS	1	17-Apr-2021 00:07	310SMPL.d	B CA
ZZZZZMSD	1	17-Apr-2021 00:09	311SMPL.d	B CA
ZZZZZPDS	1	17-Apr-2021 00:11	312SMPL.d	CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493
Start Date: 16-Apr-2021 **End Date:** 17-Apr-2021

Run ID: ICPMS06_381760
Instrument: ICPMS06
Method: SW6020A

Sample No.	D/F	Time	FileID	Analytes
CCV 29	1	17-Apr-2021 00:13	313_CCV.d	B CA
CCB 28	1	17-Apr-2021 00:15	314_CCB.d	B CA
MW-63SD	5	17-Apr-2021 00:19	316SMPL.d	
MW-63MS	1	17-Apr-2021 00:21	317SMPL.d	CA
MW-63MSD	1	17-Apr-2021 00:23	318SMPL.d	CA
MW-63PDS	1	17-Apr-2021 00:25	319SMPL.d	
CCV 30	1	17-Apr-2021 00:27	320_CCV.d	B CA
CCB 29	1	17-Apr-2021 00:29	321_CCB.d	B CA
CCV 31	1	17-Apr-2021 00:52	332_CCV.d	B CA
CCB 30	1	17-Apr-2021 00:54	333_CCB.d	B CA
CCV 32	1	17-Apr-2021 01:15	343_CCV.d	B CA
CCB 31	1	17-Apr-2021 01:17	344_CCB.d	B CA
CCV 33	1	17-Apr-2021 01:38	354_CCV.d	B CA
CCB 32	1	17-Apr-2021 01:40	355_CCB.d	B CA
LLCCV2	1	17-Apr-2021 02:48	388LCV2.d	B CA
LLCCV5	1	17-Apr-2021 02:50	389LCV5.d	B CA
ICSA	1	17-Apr-2021 02:52	390ICSA.d	B CA
ICSAB	1	17-Apr-2021 02:54	391ICSB.d	B CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21040493
 Start Date: 19-Apr-2021

End Date: 20-Apr-2021

Run ID:ICPMS06_381877
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
ICV	1	19-Apr-2021 10:39	017_ICV.d	B CA
LLICV2	1	19-Apr-2021 10:43	019LCV2.d	B CA
LLICV5	1	19-Apr-2021 10:45	020LCV5.d	B CA
ICB	1	19-Apr-2021 10:47	021_ICB.d	B CA
ICSA	1	19-Apr-2021 10:49	022ICSA.d	B CA
ICSAB	1	19-Apr-2021 10:51	023ICSB.d	B CA
CCV 1	1	19-Apr-2021 10:58	025_CCV.d	B CA
CCB 1	1	19-Apr-2021 11:00	026_CCB.d	B CA
MW-58PDS	1	19-Apr-2021 11:19	034SMPL.d	CA
CCV 2	1	19-Apr-2021 11:25	037_CCV.d	B CA
CCB 2	1	19-Apr-2021 11:26	038_CCB.d	B CA
MW-40	20	19-Apr-2021 11:34	042SMPL.d	CA
MW-64	20	19-Apr-2021 11:36	043SMPL.d	CA
MW-23R	20	19-Apr-2021 11:38	044SMPL.d	CA
MW-44	1	19-Apr-2021 11:41	045SMPL.d	B CA
MW-46R	1	19-Apr-2021 11:43	046SMPL.d	B CA
MW-47	1	19-Apr-2021 11:45	047SMPL.d	B CA
MW-48	1	19-Apr-2021 11:47	048SMPL.d	B CA
CCV 3	1	19-Apr-2021 11:49	049_CCV.d	B CA
CCB 3	1	19-Apr-2021 11:51	050_CCB.d	B CA
MW-50	1	19-Apr-2021 11:59	051SMPL.d	B CA
MW-52	2	19-Apr-2021 12:01	052SMPL.d	B CA
MW-54	1	19-Apr-2021 12:03	053SMPL.d	B CA
MW-55R	1	19-Apr-2021 12:05	054SMPL.d	B CA
MW-65	2	19-Apr-2021 12:07	055SMPL.d	B CA
MW-63	1	19-Apr-2021 12:09	056SMPL.d	B
MW-63MS	1	19-Apr-2021 12:13	058SMPL.d	B
MW-63MSD	1	19-Apr-2021 12:15	059SMPL.d	B
MW-63PDS	1	19-Apr-2021 12:17	060SMPL.d	B
CCV 4	1	19-Apr-2021 12:19	061_CCV.d	B CA
CCB 4	1	19-Apr-2021 12:21	062_CCB.d	B CA
MW-36	1	19-Apr-2021 12:23	063SMPL.d	B
MW-37	2	19-Apr-2021 12:25	064SMPL.d	B CA
MW-38R	2	19-Apr-2021 12:27	065SMPL.d	B CA
MW-60	1	19-Apr-2021 12:29	066SMPL.d	B
MW-60	20	19-Apr-2021 12:31	067SMPL.d	CA
MW-61	5	19-Apr-2021 12:33	068SMPL.d	B CA
DUP-01	2	19-Apr-2021 12:35	069SMPL.d	CA
DUP-02	1	19-Apr-2021 12:37	070SMPL.d	B CA
FB-01	1	19-Apr-2021 12:39	071SMPL.d	B CA
MW-36	20	19-Apr-2021 12:41	072SMPL.d	CA
CCV 5	1	19-Apr-2021 12:43	073_CCV.d	B CA
CCB 5	1	19-Apr-2021 12:45	074_CCB.d	B CA
CCV 6	1	19-Apr-2021 13:23	085_CCV.d	B CA
CCB 6	1	19-Apr-2021 13:25	086_CCB.d	B CA
CCB 7	1	19-Apr-2021 13:49	098_CCB.d	B CA
CCV 7	1	19-Apr-2021 13:52	099_CCV.d	B CA
ICCV 8	1	19-Apr-2021 14:27	115_ICV.d	B CA
LLICCV2	1	19-Apr-2021 14:31	117LCV2.d	B CA
LLICCV5	1	19-Apr-2021 14:33	118LCV5.d	B CA
ICCB 8	1	19-Apr-2021 14:37	119_ICB.d	B CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 WorkOrder: HS21040493
 Start Date: 19-Apr-2021

End Date: 20-Apr-2021

Run ID:ICPMS06_381877
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
DUP-01	1	19-Apr-2021 14:39	120SMPL.d	B
CCV 9	1	19-Apr-2021 14:49	125_CCV.d	B CA
CCB 9	1	19-Apr-2021 14:51	126_CCB.d	B CA
CCB 10	1	19-Apr-2021 15:15	138_CCB.d	B CA
CCV 10	1	19-Apr-2021 15:30	141_CCV.d	B CA
CCV 11	1	19-Apr-2021 15:46	147_CCV.d	B CA
CCB 11	1	19-Apr-2021 15:48	148_CCB.d	B CA
MW-63	50	19-Apr-2021 15:56	152SMPL.d	CA
MW-63SD	250	19-Apr-2021 15:58	153SMPL.d	CA
MW-63PDS	50	19-Apr-2021 16:00	154SMPL.d	CA
CCB 12	1	19-Apr-2021 16:12	160_CCB.d	B CA
CCV 12	1	19-Apr-2021 16:19	162_CCV.d	B CA
CCV 13	1	19-Apr-2021 16:41	173_CCV.d	B CA
CCB 13	1	19-Apr-2021 16:43	174_CCB.d	B CA
CCV 14	1	19-Apr-2021 17:06	185_CCV.d	B CA
CCB 14	1	19-Apr-2021 17:10	187_CCB.d	B CA
CCB 15	1	19-Apr-2021 17:34	199_CCB.d	B CA
CCV 15	1	19-Apr-2021 17:36	200_CCV.d	B CA
CCV 16	1	19-Apr-2021 17:59	211_CCV.d	B CA
CCB 16	1	19-Apr-2021 18:01	212_CCB.d	B CA
CCV 17	1	19-Apr-2021 18:21	220_CCV.d	B CA
CCB 17	1	19-Apr-2021 18:23	221_CCB.d	B CA
CCV 18	1	19-Apr-2021 18:45	232_CCV.d	B CA
CCB 18	1	19-Apr-2021 18:47	233_CCB.d	B CA
CCV 19	1	19-Apr-2021 19:09	244_CCV.d	B CA
CCB 19	1	19-Apr-2021 19:11	245_CCB.d	B CA
ICCV 20	1	19-Apr-2021 21:29	259_ICV.d	B CA
LLICCV5	1	19-Apr-2021 21:31	260LCV5.d	B CA
LLICCV2	1	19-Apr-2021 21:33	261LCV2.d	B CA
ICCB 20	1	19-Apr-2021 21:35	262_ICB.d	B CA
CCV 21	1	19-Apr-2021 21:50	269_CCV.d	B CA
CCB 21	1	19-Apr-2021 21:52	270_CCB.d	B CA
CCV 22	1	19-Apr-2021 22:10	279_CCV.d	B CA
CCB 22	1	19-Apr-2021 22:12	280_CCB.d	B CA
CCB 23	1	19-Apr-2021 22:27	287_CCB.d	B CA
CCV 23	1	19-Apr-2021 22:35	291_CCV.d	B CA
CCV 24	1	19-Apr-2021 22:54	300_CCV.d	B CA
CCB 24	1	19-Apr-2021 22:56	301_CCB.d	B CA
ICSA	1	19-Apr-2021 22:58	302ICSA.d	B CA
ICSAB	1	19-Apr-2021 23:00	303ICSB.d	B CA
CCV 25	1	19-Apr-2021 23:10	308_CCV.d	B CA
CCB 25	1	19-Apr-2021 23:12	309_CCB.d	B CA
CCV 26	1	19-Apr-2021 23:27	316_CCV.d	B CA
CCB 26	1	19-Apr-2021 23:29	317_CCB.d	B CA
CCV 27	1	19-Apr-2021 23:42	323_CCV.d	B CA
CCB 27	1	19-Apr-2021 23:44	324_CCB.d	B CA
CCV 28	1	20-Apr-2021 00:07	335_CCV.d	B CA
CCB 28	1	20-Apr-2021 00:09	336_CCB.d	B CA
CCV 29	1	20-Apr-2021 00:13	338_CCV.d	B CA
CCV 30	1	20-Apr-2021 00:30	346_CCV.d	B CA
CCB 29	1	20-Apr-2021 00:32	347_CCB.d	B CA

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493
Start Date: 19-Apr-2021 **End Date:** 20-Apr-2021

Run ID: ICPMS06_381877
Instrument: ICPMS06
Method: SW6020A

Sample No.	D/F	Time	FileID	Analytes
CCV 31	1	20-Apr-2021 00:55	358_CCV.d	B CA
CCB 30	1	20-Apr-2021 00:57	359_CCB.d	B CA
CCV 32	1	20-Apr-2021 01:20	370_CCV.d	B CA
CCB 31	1	20-Apr-2021 01:22	371_CCB.d	B CA
CCV 33	1	20-Apr-2021 01:24	372_CCV.d	B CA
CCB 32	1	20-Apr-2021 01:26	373_CCB.d	B CA
LLCCV2	1	20-Apr-2021 01:30	375LCV2.d	B CA
LLCCV5	1	20-Apr-2021 01:32	376LCV5.d	B CA
ICSA	1	20-Apr-2021 01:34	377ICSA.d	B CA
ICSAB	1	20-Apr-2021 01:36	378ICSB.d	B CA

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

Run ID:ICPMS06_381760
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 1	16-Apr-2021 10:47	6045144	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	12.69	11	20
CCB 2	16-Apr-2021 11:17	6045151	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.15	11	20
CCB 3	16-Apr-2021 12:11	6045206	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.49	11	20
CCB 5	16-Apr-2021 13:07	6045375	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.88	11	20
CCB 6	16-Apr-2021 13:35	6045388	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	11.27	11	20
CCB 7	16-Apr-2021 14:04	6045406	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.76	11	20
CCB 8	16-Apr-2021 14:39	6045620	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.24	11	20
CCB 9	16-Apr-2021 14:58	6045623	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	15.57	11	20
CCB 10	16-Apr-2021 15:35	6045637	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.25	11	20
CCB 11	16-Apr-2021 16:10	6045650	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.24	11	20
CCB 12	16-Apr-2021 16:34	6045692	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.57	11	20
CCB 13	16-Apr-2021 17:05	6045858	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	12.86	11	20
CCB 14	16-Apr-2021 17:42	6045992	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	12.13	11	20
CCB 18	16-Apr-2021 19:16	6047329	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.21	11	20

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

Run ID:ICPMS06_381760
Instrument:ICPMS06
Method:SW6020A

CCB 20	Date: 16-Apr-2021 21:15	Seq: 6047339	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.9	11	20
CCB 21	Date: 16-Apr-2021 21:54	Seq: 6047352	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.26	11	20
CCB 22	Date: 16-Apr-2021 22:19	Seq: 6047362	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	20.45	11	20
CCB 23	Date: 16-Apr-2021 22:42	Seq: 6047375	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	11.07	11	20
CCB 27	Date: 16-Apr-2021 23:56	Seq: 6047411	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.9	11	20
CCB 28	Date: 17-Apr-2021 00:15	Seq: 6047440	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.45	11	20
CCB 29	Date: 17-Apr-2021 00:29	Seq: 6047447	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.97	11	20
CCB 30	Date: 17-Apr-2021 00:54	Seq: 6047459	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	15.12	11	20
CCB 31	Date: 17-Apr-2021 01:17	Seq: 6047421	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.97	11	20
CCB 32	Date: 17-Apr-2021 01:40	Seq: 6047432	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.46	11	20

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

Run ID:ICPMS06_381877
Instrument:ICPMS06
Method:SW6020A

CCB 2	Date: 19-Apr-2021 11:26	Seq: 6048562	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.29	11	20
CCB 3	Date: 19-Apr-2021 11:51	Seq: 6048574	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	15.48	11	20
CCB 4	Date: 19-Apr-2021 12:21	Seq: 6048702	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	14.85	11	20
CCB 9	Date: 19-Apr-2021 14:51	Seq: 6049096	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	16.74	11	20
CCB 16	Date: 19-Apr-2021 18:01	Seq: 6049658	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	18.46	11	20
CCB 17	Date: 19-Apr-2021 18:23	Seq: 6049661	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	12.29	11	20
CCB 18	Date: 19-Apr-2021 18:47	Seq: 6049665	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	11.14	11	20
CCB 19	Date: 19-Apr-2021 19:11	Seq: 6049688	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.82	11	20
CCB 21	Date: 19-Apr-2021 21:52	Seq: 6049719	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	12.2	11	20
CCB 22	Date: 19-Apr-2021 22:12	Seq: 6049695	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	19.79	11	20
CCB 23	Date: 19-Apr-2021 22:27	Seq: 6049702	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	14.42	11	20
CCB 24	Date: 19-Apr-2021 22:56	Seq: 6049747	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	18.61	11	20
CCB 25	Date: 19-Apr-2021 23:12	Seq: 6049755	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.93	11	20
CCB 26	Date: 19-Apr-2021 23:29	Seq: 6049763	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.25	11	20

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

Run ID:ICPMS06_381877
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 27	19-Apr-2021 23:44	6049770	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	18.18	11	20
CCB 28	20-Apr-2021 00:09	6049781	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.95	11	20
CCB 29	20-Apr-2021 00:32	6049815	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.38	11	20
CCB 30	20-Apr-2021 00:57	6049827	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	14.88	11	20
CCB 31	20-Apr-2021 01:22	6049797	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	13.61	11	20
CCB 32	20-Apr-2021 01:26	6049799	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	15.42	11	20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21040493

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21040493-01	MW-40	Groundwater		09-Apr-2021 11:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-02	MW-41	Groundwater		09-Apr-2021 09:35	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-03	MW-62	Groundwater		09-Apr-2021 12:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-04	MW-63	Groundwater		09-Apr-2021 08:30	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-05	MW-64	Groundwater		09-Apr-2021 10:25	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-06	MW-23R	Groundwater		09-Apr-2021 12:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-07	MW-28D	Groundwater		09-Apr-2021 11:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-08	MW-42	Groundwater		09-Apr-2021 11:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-09	MW-43	Groundwater		09-Apr-2021 12:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-10	MW-44	Groundwater		09-Apr-2021 09:05	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-11	MW-46R	Groundwater		09-Apr-2021 08:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-12	MW-47	Groundwater		09-Apr-2021 11:50	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-13	MW-48	Groundwater		09-Apr-2021 11:00	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-14	MW-50	Groundwater		09-Apr-2021 12:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-15	MW-52	Groundwater		09-Apr-2021 12:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-16	MW-54	Groundwater		09-Apr-2021 08:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-17	MW-55R	Groundwater		09-Apr-2021 09:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-18	MW-58	Groundwater		09-Apr-2021 10:05	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-19	MW-65	Groundwater		09-Apr-2021 10:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-20	MW-36	Groundwater		09-Apr-2021 10:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-21	MW-37	Groundwater		09-Apr-2021 08:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-22	MW-38R	Groundwater		09-Apr-2021 08:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-23	MW-60	Groundwater		09-Apr-2021 11:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-24	MW-61	Groundwater		09-Apr-2021 09:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-25	DUP-01	Groundwater		09-Apr-2021 12:00	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040493-26	DUP-02	Groundwater		09-Apr-2021 10:00	09-Apr-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21040493

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21040493-27	FB-01	Water		09-Apr-2021 10:05	09-Apr-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-40
 Collection Date: 09-Apr-2021 11:15

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.0978		0.0110	0.0200	mg/L	1	16-Apr-2021 18:53
Calcium	240		0.680	10.0	mg/L	20	19-Apr-2021 11:34
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	587		2.00	5.00	mg/L	10	17-Apr-2021 15:27
Sulfate	110		2.00	5.00	mg/L	10	17-Apr-2021 15:27
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,970		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-41
 Collection Date: 09-Apr-2021 09:35

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0918		0.0110	0.0200	mg/L	1	16-Apr-2021 18:56
Calcium	67.7		0.0340	0.500	mg/L	1	16-Apr-2021 18:56
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	60.2		2.00	5.00	mg/L	10	17-Apr-2021 15:45
Sulfate	61.0		2.00	5.00	mg/L	10	17-Apr-2021 15:45
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	484		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-62
 Collection Date: 09-Apr-2021 12:55

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0825		0.0110	0.0200	mg/L	1	16-Apr-2021 18:58
Calcium	177		0.0340	0.500	mg/L	1	16-Apr-2021 18:58
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	649		2.00	5.00	mg/L	10	17-Apr-2021 16:04
Sulfate	96.4		2.00	5.00	mg/L	10	17-Apr-2021 16:04
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,870		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-63
 Collection Date: 09-Apr-2021 08:30

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.130		0.0110	0.0200	mg/L	1	19-Apr-2021 12:09
Calcium	303		1.70	25.0	mg/L	50	19-Apr-2021 15:56
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	409		2.00	5.00	mg/L	10	17-Apr-2021 16:22
Sulfate	449		2.00	5.00	mg/L	10	17-Apr-2021 16:22
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,740		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-64
 Collection Date: 09-Apr-2021 10:25

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0998		0.0110	0.0200	mg/L	1	16-Apr-2021 19:00
Calcium	195		0.680	10.0	mg/L	20	19-Apr-2021 11:36
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	550		2.00	5.00	mg/L	10	17-Apr-2021 18:12
Sulfate	46.7		2.00	5.00	mg/L	10	17-Apr-2021 18:12
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,870		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-23R
 Collection Date: 09-Apr-2021 12:45

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.226		0.0110	0.0200	mg/L	1	16-Apr-2021 19:02
Calcium	285		0.680	10.0	mg/L	20	19-Apr-2021 11:38
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	754		2.00	5.00	mg/L	10	17-Apr-2021 18:31
Sulfate	673		2.00	5.00	mg/L	10	17-Apr-2021 18:31
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	2,530		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-28D
 Collection Date: 09-Apr-2021 11:15

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.168		0.0110	0.0200	mg/L	1	16-Apr-2021 19:04
Calcium	109		0.0340	0.500	mg/L	1	16-Apr-2021 19:04
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	156		2.00	5.00	mg/L	10	17-Apr-2021 18:49
Sulfate	115		2.00	5.00	mg/L	10	17-Apr-2021 18:49
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	826		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-42
 Collection Date: 09-Apr-2021 11:45

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.511		0.0110	0.0200	mg/L	1	16-Apr-2021 19:06
Calcium	151		0.0340	0.500	mg/L	1	16-Apr-2021 19:06
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	354		2.00	5.00	mg/L	10	17-Apr-2021 19:08
Sulfate	550		2.00	5.00	mg/L	10	17-Apr-2021 19:08
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,820		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-43
 Collection Date: 09-Apr-2021 12:40

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.410		0.0110	0.0200	mg/L	1	16-Apr-2021 19:08
Calcium	87.5		0.0340	0.500	mg/L	1	16-Apr-2021 19:08
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	256		2.00	5.00	mg/L	10	17-Apr-2021 19:26
Sulfate	78.6		2.00	5.00	mg/L	10	17-Apr-2021 19:26
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	898		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-44
 Collection Date: 09-Apr-2021 09:05

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.249		0.0110	0.0200	mg/L	1	19-Apr-2021 11:41
Calcium	133		0.0340	0.500	mg/L	1	19-Apr-2021 11:41
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	336		2.00	5.00	mg/L	10	17-Apr-2021 19:44
Sulfate	228		2.00	5.00	mg/L	10	17-Apr-2021 19:44
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,390		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-46R
 Collection Date: 09-Apr-2021 08:15

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.184		0.0110	0.0200	mg/L	1	19-Apr-2021 11:43
Calcium	106		0.0340	0.500	mg/L	1	19-Apr-2021 11:43
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	173		2.00	5.00	mg/L	10	17-Apr-2021 20:03
Sulfate	100		2.00	5.00	mg/L	10	17-Apr-2021 20:03
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	816		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-47
 Collection Date: 09-Apr-2021 11:50

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.295		0.0110	0.0200	mg/L	1	19-Apr-2021 11:45
Calcium	102		0.0340	0.500	mg/L	1	19-Apr-2021 11:45
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	334		2.00	5.00	mg/L	10	17-Apr-2021 20:21
Sulfate	81.7		2.00	5.00	mg/L	10	17-Apr-2021 20:21
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,080		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-48
 Collection Date: 09-Apr-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.573		0.0110	0.0200	mg/L	1	19-Apr-2021 11:47
Calcium	69.1		0.0340	0.500	mg/L	1	19-Apr-2021 11:47
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	393		2.00	5.00	mg/L	10	17-Apr-2021 20:40
Sulfate	96.8		2.00	5.00	mg/L	10	17-Apr-2021 20:40
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,280		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-50
 Collection Date: 09-Apr-2021 12:40

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.266		0.0110	0.0200	mg/L	1	19-Apr-2021 11:59
Calcium	118		0.0340	0.500	mg/L	1	19-Apr-2021 11:59
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	416		2.00	5.00	mg/L	10	17-Apr-2021 21:53
Sulfate	128		2.00	5.00	mg/L	10	17-Apr-2021 21:53
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,310		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-52
 Collection Date: 09-Apr-2021 12:55

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.351		0.0220	0.0400	mg/L	2	19-Apr-2021 12:01
Calcium	248		0.0680	1.00	mg/L	2	19-Apr-2021 12:01
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	782		2.00	5.00	mg/L	10	17-Apr-2021 22:12
Sulfate	518		2.00	5.00	mg/L	10	17-Apr-2021 22:12
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,570		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-54
 Collection Date: 09-Apr-2021 08:15

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.286		0.0110	0.0200	mg/L	1	19-Apr-2021 12:03
Calcium	90.5		0.0340	0.500	mg/L	1	19-Apr-2021 12:03
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	267		2.00	5.00	mg/L	10	17-Apr-2021 22:30
Sulfate	78.8		2.00	5.00	mg/L	10	17-Apr-2021 22:30
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	838		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-55R
 Collection Date: 09-Apr-2021 09:10

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.487		0.0110	0.0200	mg/L	1	19-Apr-2021 12:05
Calcium	106		0.0340	0.500	mg/L	1	19-Apr-2021 12:05
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	351		2.00	5.00	mg/L	10	17-Apr-2021 22:48
Sulfate	118		2.00	5.00	mg/L	10	17-Apr-2021 22:48
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,260		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-58
 Collection Date: 09-Apr-2021 10:05

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.296		0.0110	0.0200	mg/L	1	16-Apr-2021 21:03
Calcium	145		0.0340	0.500	mg/L	1	16-Apr-2021 21:03
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	408		2.00	5.00	mg/L	10	17-Apr-2021 23:07
Sulfate	153		2.00	5.00	mg/L	10	17-Apr-2021 23:07
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,410		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-65
 Collection Date: 09-Apr-2021 10:10

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.363		0.0220	0.0400	mg/L	2	19-Apr-2021 12:07
Calcium	200		0.0680	1.00	mg/L	2	19-Apr-2021 12:07
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	259		2.00	5.00	mg/L	10	18-Apr-2021 00:02
Sulfate	691		2.00	5.00	mg/L	10	18-Apr-2021 00:02
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	2,050		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-36
 Collection Date: 09-Apr-2021 10:45

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0727		0.0110	0.0200	mg/L	1	19-Apr-2021 12:23
Calcium	147		0.680	10.0	mg/L	20	19-Apr-2021 12:41
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	356		2.00	5.00	mg/L	10	18-Apr-2021 00:20
Sulfate	474		2.00	5.00	mg/L	10	18-Apr-2021 00:20
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,730		5.00	10.0	mg/L	1	15-Apr-2021 17:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-37
 Collection Date: 09-Apr-2021 08:55

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.384		0.0220	0.0400	mg/L	2	19-Apr-2021 12:25
Calcium	251		0.0680	1.00	mg/L	2	19-Apr-2021 12:25
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	269		2.00	5.00	mg/L	10	18-Apr-2021 00:39
Sulfate	936		2.00	5.00	mg/L	10	18-Apr-2021 00:39
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	2,080		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-38R
 Collection Date: 09-Apr-2021 08:10

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.398		0.0220	0.0400	mg/L	2	19-Apr-2021 12:27
Calcium	225		0.0680	1.00	mg/L	2	19-Apr-2021 12:27
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	259		2.00	5.00	mg/L	10	18-Apr-2021 01:52
Sulfate	799		2.00	5.00	mg/L	10	18-Apr-2021 01:52
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,870		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-60
 Collection Date: 09-Apr-2021 11:55

ANALYTICAL REPORT

WorkOrder:HS21040493
 Lab ID:HS21040493-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0945		0.0110	0.0200	mg/L	1	19-Apr-2021 12:29
Calcium	140		0.680	10.0	mg/L	20	19-Apr-2021 12:31
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	376		2.00	5.00	mg/L	10	18-Apr-2021 02:11
Sulfate	200		2.00	5.00	mg/L	10	18-Apr-2021 02:11
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,450		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-61
 Collection Date: 09-Apr-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	1.19		0.0550	0.100	mg/L	5	19-Apr-2021 12:33
Calcium	192		0.170	2.50	mg/L	5	19-Apr-2021 12:33
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	133		2.00	5.00	mg/L	10	18-Apr-2021 02:29
Sulfate	938		2.00	5.00	mg/L	10	18-Apr-2021 02:29
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,860		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-01
 Collection Date: 09-Apr-2021 12:00

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	0.0625		0.0110	0.0200	mg/L	1	19-Apr-2021 14:39
Calcium	217		0.0680	1.00	mg/L	2	19-Apr-2021 12:35
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	355		2.00	5.00	mg/L	10	18-Apr-2021 03:24
Sulfate	460		2.00	5.00	mg/L	10	18-Apr-2021 03:24
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	1,650		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-02
 Collection Date: 09-Apr-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 15-Apr-2021		Analyst: JHD
Boron	0.239		0.0110	0.0200	mg/L	1	19-Apr-2021 12:37
Calcium	123		0.0340	0.500	mg/L	1	19-Apr-2021 12:37
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	341		2.00	5.00	mg/L	10	18-Apr-2021 03:43
Sulfate	232		2.00	5.00	mg/L	10	18-Apr-2021 03:43
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C					Analyst: KAH
Total Dissolved Solids (Residue, Filterable)	1,290		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA					Analyst: SUBHO
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: FB-01
 Collection Date: 09-Apr-2021 10:05

ANALYTICAL REPORT
 WorkOrder:HS21040493
 Lab ID:HS21040493-27
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Boron	< 0.0110		0.0110	0.0200	mg/L	1	19-Apr-2021 12:39
Calcium	0.0648	J	0.0340	0.500	mg/L	1	19-Apr-2021 12:39
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	< 0.200		0.200	0.500	mg/L	1	18-Apr-2021 04:01
Sulfate	< 0.200		0.200	0.500	mg/L	1	18-Apr-2021 04:01
TOTAL DISSOLVED SOLIDS BY SM2540C		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	< 5.00		5.00	10.0	mg/L	1	16-Apr-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

Batch ID: 164671 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040493-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 164672 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040493-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040493-27		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 164673 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040493-18		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 164671 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040493-01	MW-40	09 Apr 2021 11:15		15 Apr 2021 17:30	19 Apr 2021 11:34	20
HS21040493-01	MW-40	09 Apr 2021 11:15		15 Apr 2021 17:30	16 Apr 2021 18:53	1
HS21040493-02	MW-41	09 Apr 2021 09:35		15 Apr 2021 17:30	16 Apr 2021 18:56	1
HS21040493-03	MW-62	09 Apr 2021 12:55		15 Apr 2021 17:30	16 Apr 2021 18:58	1
HS21040493-05	MW-64	09 Apr 2021 10:25		15 Apr 2021 17:30	19 Apr 2021 11:36	20
HS21040493-05	MW-64	09 Apr 2021 10:25		15 Apr 2021 17:30	16 Apr 2021 19:00	1
HS21040493-06	MW-23R	09 Apr 2021 12:45		15 Apr 2021 17:30	19 Apr 2021 11:38	20
HS21040493-06	MW-23R	09 Apr 2021 12:45		15 Apr 2021 17:30	16 Apr 2021 19:02	1
HS21040493-07	MW-28D	09 Apr 2021 11:15		15 Apr 2021 17:30	16 Apr 2021 19:04	1
HS21040493-08	MW-42	09 Apr 2021 11:45		15 Apr 2021 17:30	16 Apr 2021 19:06	1
HS21040493-09	MW-43	09 Apr 2021 12:40		15 Apr 2021 17:30	16 Apr 2021 19:08	1
Batch ID: 164672 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21040493-27	FB-01	09 Apr 2021 10:05		15 Apr 2021 17:30	19 Apr 2021 12:39	1
Batch ID: 164672 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040493-04	MW-63	09 Apr 2021 08:30		15 Apr 2021 17:30	19 Apr 2021 15:56	50
HS21040493-04	MW-63	09 Apr 2021 08:30		15 Apr 2021 17:30	19 Apr 2021 12:09	1
HS21040493-10	MW-44	09 Apr 2021 09:05		15 Apr 2021 17:30	19 Apr 2021 11:41	1
HS21040493-11	MW-46R	09 Apr 2021 08:15		15 Apr 2021 17:30	19 Apr 2021 11:43	1
HS21040493-12	MW-47	09 Apr 2021 11:50		15 Apr 2021 17:30	19 Apr 2021 11:45	1
HS21040493-13	MW-48	09 Apr 2021 11:00		15 Apr 2021 17:30	19 Apr 2021 11:47	1
HS21040493-14	MW-50	09 Apr 2021 12:40		15 Apr 2021 17:30	19 Apr 2021 11:59	1
HS21040493-15	MW-52	09 Apr 2021 12:55		15 Apr 2021 17:30	19 Apr 2021 12:01	2
HS21040493-16	MW-54	09 Apr 2021 08:15		15 Apr 2021 17:30	19 Apr 2021 12:03	1
HS21040493-17	MW-55R	09 Apr 2021 09:10		15 Apr 2021 17:30	19 Apr 2021 12:05	1
HS21040493-19	MW-65	09 Apr 2021 10:10		15 Apr 2021 17:30	19 Apr 2021 12:07	2
HS21040493-20	MW-36	09 Apr 2021 10:45		15 Apr 2021 17:30	19 Apr 2021 12:41	20
HS21040493-20	MW-36	09 Apr 2021 10:45		15 Apr 2021 17:30	19 Apr 2021 12:23	1
HS21040493-21	MW-37	09 Apr 2021 08:55		15 Apr 2021 17:30	19 Apr 2021 12:25	2
HS21040493-22	MW-38R	09 Apr 2021 08:10		15 Apr 2021 17:30	19 Apr 2021 12:27	2
HS21040493-23	MW-60	09 Apr 2021 11:55		15 Apr 2021 17:30	19 Apr 2021 12:31	20
HS21040493-23	MW-60	09 Apr 2021 11:55		15 Apr 2021 17:30	19 Apr 2021 12:29	1
HS21040493-24	MW-61	09 Apr 2021 09:40		15 Apr 2021 17:30	19 Apr 2021 12:33	5
HS21040493-25	DUP-01	09 Apr 2021 12:00		15 Apr 2021 17:30	19 Apr 2021 14:39	1
HS21040493-25	DUP-01	09 Apr 2021 12:00		15 Apr 2021 17:30	19 Apr 2021 12:35	2
HS21040493-26	DUP-02	09 Apr 2021 10:00		15 Apr 2021 17:30	19 Apr 2021 12:37	1
Batch ID: 164673 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040493-18	MW-58	09 Apr 2021 10:05		15 Apr 2021 17:30	16 Apr 2021 21:03	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R381765 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Groundwater	
HS21040493-01	MW-40	09 Apr 2021 11:15			15 Apr 2021 17:00	1
HS21040493-02	MW-41	09 Apr 2021 09:35			15 Apr 2021 17:00	1
HS21040493-03	MW-62	09 Apr 2021 12:55			15 Apr 2021 17:00	1
HS21040493-04	MW-63	09 Apr 2021 08:30			15 Apr 2021 17:00	1
HS21040493-05	MW-64	09 Apr 2021 10:25			15 Apr 2021 17:00	1
HS21040493-06	MW-23R	09 Apr 2021 12:45			15 Apr 2021 17:00	1
HS21040493-07	MW-28D	09 Apr 2021 11:15			15 Apr 2021 17:00	1
HS21040493-08	MW-42	09 Apr 2021 11:45			15 Apr 2021 17:00	1
HS21040493-09	MW-43	09 Apr 2021 12:40			15 Apr 2021 17:00	1
HS21040493-10	MW-44	09 Apr 2021 09:05			15 Apr 2021 17:00	1
HS21040493-11	MW-46R	09 Apr 2021 08:15			15 Apr 2021 17:00	1
HS21040493-12	MW-47	09 Apr 2021 11:50			15 Apr 2021 17:00	1
HS21040493-13	MW-48	09 Apr 2021 11:00			15 Apr 2021 17:00	1
HS21040493-14	MW-50	09 Apr 2021 12:40			15 Apr 2021 17:00	1
HS21040493-15	MW-52	09 Apr 2021 12:55			15 Apr 2021 17:00	1
HS21040493-16	MW-54	09 Apr 2021 08:15			15 Apr 2021 17:00	1
HS21040493-17	MW-55R	09 Apr 2021 09:10			15 Apr 2021 17:00	1
HS21040493-18	MW-58	09 Apr 2021 10:05			15 Apr 2021 17:00	1
HS21040493-19	MW-65	09 Apr 2021 10:10			15 Apr 2021 17:00	1
HS21040493-20	MW-36	09 Apr 2021 10:45			15 Apr 2021 17:00	1
Batch ID: R381785 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Water	
HS21040493-27	FB-01	09 Apr 2021 10:05			16 Apr 2021 18:00	1
Batch ID: R381785 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C			Matrix: Groundwater	
HS21040493-21	MW-37	09 Apr 2021 08:55			16 Apr 2021 18:00	1
HS21040493-22	MW-38R	09 Apr 2021 08:10			16 Apr 2021 18:00	1
HS21040493-23	MW-60	09 Apr 2021 11:55			16 Apr 2021 18:00	1
HS21040493-24	MW-61	09 Apr 2021 09:40			16 Apr 2021 18:00	1
HS21040493-25	DUP-01	09 Apr 2021 12:00			16 Apr 2021 18:00	1
HS21040493-26	DUP-02	09 Apr 2021 10:00			16 Apr 2021 18:00	1
Batch ID: R381864 (0)		Test Name : ANIONS BY E300.0			Matrix: Water	
HS21040493-27	FB-01	09 Apr 2021 10:05			18 Apr 2021 04:01	1
Batch ID: R381864 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS21040493-21	MW-37	09 Apr 2021 08:55			18 Apr 2021 00:39	10
HS21040493-22	MW-38R	09 Apr 2021 08:10			18 Apr 2021 01:52	10
HS21040493-23	MW-60	09 Apr 2021 11:55			18 Apr 2021 02:11	10
HS21040493-24	MW-61	09 Apr 2021 09:40			18 Apr 2021 02:29	10
HS21040493-25	DUP-01	09 Apr 2021 12:00			18 Apr 2021 03:24	10
HS21040493-26	DUP-02	09 Apr 2021 10:00			18 Apr 2021 03:43	10

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R381865 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS21040493-01	MW-40	09 Apr 2021 11:15			17 Apr 2021 15:27	10
HS21040493-02	MW-41	09 Apr 2021 09:35			17 Apr 2021 15:45	10
HS21040493-03	MW-62	09 Apr 2021 12:55			17 Apr 2021 16:04	10
HS21040493-04	MW-63	09 Apr 2021 08:30			17 Apr 2021 16:22	10
HS21040493-05	MW-64	09 Apr 2021 10:25			17 Apr 2021 18:12	10
HS21040493-06	MW-23R	09 Apr 2021 12:45			17 Apr 2021 18:31	10
HS21040493-07	MW-28D	09 Apr 2021 11:15			17 Apr 2021 18:49	10
HS21040493-08	MW-42	09 Apr 2021 11:45			17 Apr 2021 19:08	10
HS21040493-09	MW-43	09 Apr 2021 12:40			17 Apr 2021 19:26	10
HS21040493-10	MW-44	09 Apr 2021 09:05			17 Apr 2021 19:44	10
HS21040493-11	MW-46R	09 Apr 2021 08:15			17 Apr 2021 20:03	10
HS21040493-12	MW-47	09 Apr 2021 11:50			17 Apr 2021 20:21	10
HS21040493-13	MW-48	09 Apr 2021 11:00			17 Apr 2021 20:40	10
HS21040493-14	MW-50	09 Apr 2021 12:40			17 Apr 2021 21:53	10
HS21040493-15	MW-52	09 Apr 2021 12:55			17 Apr 2021 22:12	10
HS21040493-16	MW-54	09 Apr 2021 08:15			17 Apr 2021 22:30	10
HS21040493-17	MW-55R	09 Apr 2021 09:10			17 Apr 2021 22:48	10
HS21040493-18	MW-58	09 Apr 2021 10:05			17 Apr 2021 23:07	10
HS21040493-19	MW-65	09 Apr 2021 10:10			18 Apr 2021 00:02	10
HS21040493-20	MW-36	09 Apr 2021 10:45			18 Apr 2021 00:20	10
Batch ID: R382016 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21040493-27	FB-01	09 Apr 2021 10:05			20 Apr 2021 19:29	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R382016 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Groundwater	
HS21040493-01	MW-40	09 Apr 2021 11:15			20 Apr 2021 19:29	1
HS21040493-02	MW-41	09 Apr 2021 09:35			20 Apr 2021 19:29	1
HS21040493-03	MW-62	09 Apr 2021 12:55			20 Apr 2021 19:29	1
HS21040493-04	MW-63	09 Apr 2021 08:30			20 Apr 2021 19:29	1
HS21040493-05	MW-64	09 Apr 2021 10:25			20 Apr 2021 19:29	1
HS21040493-06	MW-23R	09 Apr 2021 12:45			20 Apr 2021 19:29	1
HS21040493-07	MW-28D	09 Apr 2021 11:15			20 Apr 2021 19:29	1
HS21040493-08	MW-42	09 Apr 2021 11:45			20 Apr 2021 19:29	1
HS21040493-09	MW-43	09 Apr 2021 12:40			20 Apr 2021 19:29	1
HS21040493-10	MW-44	09 Apr 2021 09:05			20 Apr 2021 19:29	1
HS21040493-11	MW-46R	09 Apr 2021 08:15			20 Apr 2021 19:29	1
HS21040493-12	MW-47	09 Apr 2021 11:50			20 Apr 2021 19:29	1
HS21040493-13	MW-48	09 Apr 2021 11:00			20 Apr 2021 19:29	1
HS21040493-14	MW-50	09 Apr 2021 12:40			20 Apr 2021 19:29	1
HS21040493-15	MW-52	09 Apr 2021 12:55			20 Apr 2021 19:29	1
HS21040493-16	MW-54	09 Apr 2021 08:15			20 Apr 2021 19:29	1
HS21040493-17	MW-55R	09 Apr 2021 09:10			20 Apr 2021 19:29	1
HS21040493-18	MW-58	09 Apr 2021 10:05			20 Apr 2021 19:29	1
HS21040493-19	MW-65	09 Apr 2021 10:10			20 Apr 2021 19:29	1
HS21040493-20	MW-36	09 Apr 2021 10:45			20 Apr 2021 19:29	1
HS21040493-21	MW-37	09 Apr 2021 08:55			20 Apr 2021 19:29	1
HS21040493-22	MW-38R	09 Apr 2021 08:10			20 Apr 2021 19:29	1
HS21040493-23	MW-60	09 Apr 2021 11:55			20 Apr 2021 19:29	1
HS21040493-24	MW-61	09 Apr 2021 09:40			20 Apr 2021 19:29	1
HS21040493-25	DUP-01	09 Apr 2021 12:00			20 Apr 2021 19:29	1
HS21040493-26	DUP-02	09 Apr 2021 10:00			20 Apr 2021 19:29	1

WorkOrder: HS21040493
InstrumentID: ICPMS06
Test Code: ICP_TW
Test Number: SW6020A
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Boron	7440-42-8	0.0125	0.0206	0.0110	0.0200
A	Calcium	7440-70-2	0.0500	0.0380	0.0340	0.500

WorkOrder: HS21040493
 InstrumentID: ICS-Integrion
 Test Code: 300_W
 Test Number: E300
 Test Name: Anions by E300.0

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Chloride	16887-00-6	0.500	0.604	0.200	0.500
A	Sulfate	14808-79-8	0.500	0.563	0.200	0.500

WorkOrder: HS21040493
InstrumentID: Balance1
Test Code: TDS_W 2540C
Test Number: M2540C
Test Name: Total Dissolved Solids by

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	5.00	6.00	5.00	10.0

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164671 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-164671	Units: mg/L			Analysis Date: 16-Apr-2021 13:56					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045607	PrepDate: 15-Apr-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-164671	Units: mg/L			Analysis Date: 16-Apr-2021 13:58					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045608	PrepDate: 15-Apr-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Boron	0.4926	0.0200	0.5	0	98.5	80 - 120				
Calcium	4.894	0.500	5	0	97.9	80 - 120				
MS	Sample ID: HS21040490-02MS	Units: mg/L			Analysis Date: 16-Apr-2021 15:04					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045626	PrepDate: 15-Apr-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Boron	3.925	0.0200	0.5	3.096	166	80 - 120			SEO	
Calcium	711.9	0.500	5	696	319	80 - 120			SEO	
MS	Sample ID: HS21040223-02MS	Units: mg/L			Analysis Date: 16-Apr-2021 15:54					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045644	PrepDate: 15-Apr-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Boron	0.8416	0.0200	0.5	0.2574	117	80 - 120				
MS	Sample ID: HS21040223-02MS	Units: mg/L			Analysis Date: 16-Apr-2021 14:10					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045611	PrepDate: 15-Apr-2021	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Calcium	812.9	0.500	5	785.6	546	80 - 120			SEO	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164671 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD	Sample ID: HS21040490-02MSD	Units: mg/L			Analysis Date: 16-Apr-2021 15:06					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045627		PrepDate: 15-Apr-2021		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	3.901	0.0200	0.5	3.096	161	80 - 120	3.925	0.607	20	SEO
Calcium	703.2	0.500	5	696	145	80 - 120	711.9	1.23	20	SEO
MSD	Sample ID: HS21040223-02MSD	Units: mg/L			Analysis Date: 16-Apr-2021 15:56					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045645		PrepDate: 15-Apr-2021		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.8503	0.0200	0.5	0.2574	119	80 - 120	0.8114	4.68	20	
MSD	Sample ID: HS21040223-02MSD	Units: mg/L			Analysis Date: 16-Apr-2021 14:12					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045612		PrepDate: 15-Apr-2021		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	832	0.500	5	785.6	929	80 - 120	812.9	2.33	20	SEO
PDS	Sample ID: HS21040490-02PDS	Units: mg/L			Analysis Date: 16-Apr-2021 16:30					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045690		PrepDate: 15-Apr-2021		DF: 50				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	16.64	1.00	12.5	3.538	105	75 - 125				
Calcium	1165	25.0	500	647.7	104	75 - 125				
PDS	Sample ID: HS21040223-02PDS	Units: mg/L			Analysis Date: 16-Apr-2021 15:58					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045646		PrepDate: 15-Apr-2021		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5426	0.0200	0.25	0.2574	114	75 - 125				
PDS	Sample ID: HS21040223-02PDS	Units: mg/L			Analysis Date: 16-Apr-2021 16:24					
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045687		PrepDate: 15-Apr-2021		DF: 100				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	1764	50.0	1000	703.8	106	75 - 125				

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164671 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD	Sample ID: HS21040490-02SD	Units: mg/L			Analysis Date: 16-Apr-2021 16:28				
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045689	PrepDate: 15-Apr-2021	DF: 250					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Boron	5.386	5.00					3.538	0	10
Calcium	639.6	125					647.7	1.24	10

SD	Sample ID: HS21040223-02SD	Units: mg/L			Analysis Date: 16-Apr-2021 16:22				
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6045686	PrepDate: 15-Apr-2021	DF: 500					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Calcium	687.5	250					703.8	2.31	10

The following samples were analyzed in this batch:

HS21040493-01	HS21040493-02	HS21040493-03	HS21040493-05
HS21040493-06	HS21040493-07	HS21040493-08	HS21040493-09

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164672 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-164672	Units: mg/L			Analysis Date: 16-Apr-2021 23:58					
Client ID:		Run ID: ICPMS06_381760	SeqNo: 6047412	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-164672	Units: mg/L			Analysis Date: 17-Apr-2021 00:01					
Client ID:		Run ID: ICPMS06_381760	SeqNo: 6047433	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Boron	0.4983	0.0200	0.5	0	99.7	80 - 120				
Calcium	4.757	0.500	5	0	95.1	80 - 120				
MS	Sample ID: HS21040493-04MS	Units: mg/L			Analysis Date: 19-Apr-2021 12:13					
Client ID: MW-63		Run ID: ICPMS06_381877	SeqNo: 6048698	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Boron	0.6492	0.0200	0.5	0.1298	104	80 - 120				
MS	Sample ID: HS21040490-08MS	Units: mg/L			Analysis Date: 17-Apr-2021 00:07					
Client ID:		Run ID: ICPMS06_381760	SeqNo: 6047436	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Boron	0.7473	0.0200	0.5	0.2314	103	80 - 120				
Calcium	82.35	0.500	5	79.23	62.3	80 - 120				SO
MS	Sample ID: HS21040493-04MS	Units: mg/L			Analysis Date: 17-Apr-2021 00:21					
Client ID: MW-63		Run ID: ICPMS06_381760	SeqNo: 6047443	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Calcium	265	0.500	5	273.7	-173	80 - 120				SEO
MSD	Sample ID: HS21040493-04MSD	Units: mg/L			Analysis Date: 19-Apr-2021 12:15					
Client ID: MW-63		Run ID: ICPMS06_381877	SeqNo: 6048699	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	RPD Qual
Boron	0.6892	0.0200	0.5	0.1298	112	80 - 120	0.6492	5.98	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164672 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD	Sample ID: HS21040490-08MSD	Units: mg/L			Analysis Date: 17-Apr-2021 00:09					
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047437	PrepDate: 15-Apr-2021		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.7523	0.0200	0.5	0.2314	104	80 - 120	0.7473	0.667	20	
Calcium	80.82	0.500	5	79.23	31.8	80 - 120	82.35	1.87	20	SO
MSD	Sample ID: HS21040493-04MSD	Units: mg/L			Analysis Date: 17-Apr-2021 00:23					
Client ID: MW-63		Run ID: ICPMS06_381760			SeqNo: 6047444	PrepDate: 15-Apr-2021		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	287.8	0.500	5	273.7	282	80 - 120	265	8.23	20	SEO
PDS	Sample ID: HS21040493-04PDS	Units: mg/L			Analysis Date: 19-Apr-2021 12:17					
Client ID: MW-63		Run ID: ICPMS06_381877			SeqNo: 6048700	PrepDate: 15-Apr-2021		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4313	0.0200	0.25	0.1298	121	75 - 125				
PDS	Sample ID: HS21040493-04PDS	Units: mg/L			Analysis Date: 19-Apr-2021 16:00					
Client ID: MW-63		Run ID: ICPMS06_381877			SeqNo: 6049115	PrepDate: 15-Apr-2021		DF: 50		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	823.3	25.0	500	303.1	104	75 - 125				
PDS	Sample ID: HS21040490-08PDS	Units: mg/L			Analysis Date: 17-Apr-2021 00:11					
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047438	PrepDate: 15-Apr-2021		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	87.02	0.500	10	79.23	77.8	75 - 125				O
SD	Sample ID: HS21040490-08SD	Units: mg/L			Analysis Date: 17-Apr-2021 00:05					
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047435	PrepDate: 15-Apr-2021		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Boron	0.254	0.100					0.2314	9.79	10	
Calcium	77.76	2.50					79.23	1.86	10	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164672 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD Sample ID: **HS21040493-04SD** Units: **mg/L** Analysis Date: **19-Apr-2021 15:58**
Client ID: **MW-63** **Run ID:** **ICPMS06_381877** **SeqNo:** **6049114** **PrepDate:** **15-Apr-2021** **DF:** **250**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Calcium 309.1 125 303.1 1.98 10

The following samples were analyzed in this batch:

HS21040493-04	HS21040493-10	HS21040493-11	HS21040493-12
HS21040493-13	HS21040493-14	HS21040493-15	HS21040493-16
HS21040493-17	HS21040493-19	HS21040493-20	HS21040493-21
HS21040493-22	HS21040493-23	HS21040493-24	HS21040493-25
HS21040493-26	HS21040493-27		

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164673 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-164673	Units: mg/L		Analysis Date: 16-Apr-2021 19:10						
Client ID:		Run ID: ICPMS06_381760	SeqNo: 6047326	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.01262	0.0200							J	
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-164673	Units: mg/L		Analysis Date: 16-Apr-2021 19:12						
Client ID:		Run ID: ICPMS06_381760	SeqNo: 6047327	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.5111	0.0200	0.5	0	102	80 - 120				
Calcium	4.871	0.500	5	0	97.4	80 - 120				
MS	Sample ID: HS21040493-18MS	Units: mg/L		Analysis Date: 16-Apr-2021 21:07						
Client ID: MW-58		Run ID: ICPMS06_381760	SeqNo: 6047335	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.7917	0.0200	0.5	0.2955	99.2	80 - 120				
Calcium	141.8	0.500	5	144.6	-56.9	80 - 120			SO	
MSD	Sample ID: HS21040493-18MSD	Units: mg/L		Analysis Date: 16-Apr-2021 21:09						
Client ID: MW-58		Run ID: ICPMS06_381760	SeqNo: 6047336	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.8277	0.0200	0.5	0.2955	106	80 - 120	0.7917	4.45	20	
Calcium	147	0.500	5	144.6	47.4	80 - 120	141.8	3.61	20 SO	
PDS	Sample ID: HS21040493-18PDS	Units: mg/L		Analysis Date: 19-Apr-2021 11:19						
Client ID: MW-58		Run ID: ICPMS06_381877	SeqNo: 6048558	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Calcium	155.8	0.500	20	144.6	56.0	75 - 125			SO	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: 164673 (0) Instrument: ICPMS06 Method: ICP-MS METALS BY SW6020A

SD Sample ID: HS21040493-18SD Units: mg/L Analysis Date: 16-Apr-2021 21:05
Client ID: MW-58 Run ID: ICPMS06_381760 SeqNo: 6047334 PrepDate: 15-Apr-2021 DF: 5
Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %D Limit Qual

Boron	0.33	0.100						0.2955	11.7	10	R
Calcium	146.8	2.50						144.6	1.49	10	

The following samples were analyzed in this batch:

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381765 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C

MBLK	Sample ID: WBLK-041521	Units: mg/L			Analysis Date: 15-Apr-2021 17:00				
Client ID:	Run ID: Balance1_381765	SeqNo: 6045315	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) < 5.00 10.0

LCS	Sample ID: WLCS-041521	Units: mg/L			Analysis Date: 15-Apr-2021 17:00				
Client ID:	Run ID: Balance1_381765	SeqNo: 6045316	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1060 10.0 1000 0 106 85 - 115

DUP	Sample ID: HS21040493-18DUP	Units: mg/L			Analysis Date: 15-Apr-2021 17:00				
Client ID: MW-58	Run ID: Balance1_381765	SeqNo: 6045312	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1404 10.0 1406 0.142 5

DUP	Sample ID: HS21040493-04DUP	Units: mg/L			Analysis Date: 15-Apr-2021 17:00				
Client ID: MW-63	Run ID: Balance1_381765	SeqNo: 6045297	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1724 10.0 1744 1.15 5

The following samples were analyzed in this batch:

HS21040493-01	HS21040493-02	HS21040493-03	HS21040493-04
HS21040493-05	HS21040493-06	HS21040493-07	HS21040493-08
HS21040493-09	HS21040493-10	HS21040493-11	HS21040493-12
HS21040493-13	HS21040493-14	HS21040493-15	HS21040493-16
HS21040493-17	HS21040493-18	HS21040493-19	HS21040493-20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381785 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C						
MBLK	Sample ID: WBLK-041521	Units: mg/L		Analysis Date: 16-Apr-2021 18:00						
Client ID:	Run ID: Balance1_381785	SeqNo: 6045966		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		< 5.00	10.0							
LCS	Sample ID: WLCS-041521	Units: mg/L		Analysis Date: 16-Apr-2021 18:00						
Client ID:	Run ID: Balance1_381785	SeqNo: 6045967		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1094	10.0	1000	0	109	85 - 115			
DUP	Sample ID: HS21040668-03DUP	Units: mg/L		Analysis Date: 16-Apr-2021 18:00						
Client ID:	Run ID: Balance1_381785	SeqNo: 6045964		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		470	10.0				442	6.14	5 R	
DUP	Sample ID: HS21040490-21DUP	Units: mg/L		Analysis Date: 16-Apr-2021 18:00						
Client ID:	Run ID: Balance1_381785	SeqNo: 6045945		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		3204	10.0				3162	1.32	5	
The following samples were analyzed in this batch:				HS21040493-21	HS21040493-22	HS21040493-23	HS21040493-24			
				HS21040493-25	HS21040493-26	HS21040493-27				

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381864 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MBLK	Sample ID: MBLK-	Units: mg/L			Analysis Date: 17-Apr-2021 03:40					
Client ID:		Run ID: ICS-Integrion_381864		SeqNo: 6048222	PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.200	0.500								
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS-	Units: mg/L			Analysis Date: 17-Apr-2021 04:00					
Client ID:		Run ID: ICS-Integrion_381864		SeqNo: 6048223	PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.05	0.500	20	0	100	90 - 110				
Sulfate	19.91	0.500	20	0	99.6	90 - 110				
MS	Sample ID: HS21040493-24MS	Units: mg/L			Analysis Date: 18-Apr-2021 02:47					
Client ID: MW-61		Run ID: ICS-Integrion_381864		SeqNo: 6048234	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	242.6	5.00	100	133.4	109	80 - 120				
Sulfate	1062	5.00	100	938.5	123	80 - 120				SEO
MS	Sample ID: HS21040490-21MS	Units: mg/L			Analysis Date: 16-Apr-2021 22:31					
Client ID:		Run ID: ICS-Integrion_381864		SeqNo: 6048209	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	928.8	10.0	200	750.6	89.1	80 - 120				
Sulfate	1168	10.0	200	1009	79.3	80 - 120				SO
MSD	Sample ID: HS21040493-24MSD	Units: mg/L			Analysis Date: 18-Apr-2021 03:06					
Client ID: MW-61		Run ID: ICS-Integrion_381864		SeqNo: 6048235	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	241.1	5.00	100	133.4	108	80 - 120	242.6	0.604	20	
Sulfate	1053	5.00	100	938.5	115	80 - 120	1062	0.815	20	EO

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381864 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS21040490-21MSD	Units: mg/L			Analysis Date: 16-Apr-2021 22:51					
Client ID:	Run ID: ICS-Integrion_381864	SeqNo: 6048210		PrepDate:			DF: 20			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	924.6	10.0	200	750.6	87.0	80 - 120	928.8	0.455	20	
Sulfate	1163	10.0	200	1009	77.0	80 - 120	1168	0.4	20	SO

The following samples were analyzed in this batch:

HS21040493-21	HS21040493-22	HS21040493-23	HS21040493-24
HS21040493-25	HS21040493-26	HS21040493-27	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381865 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MBLK	Sample ID: MBLK-	Units: mg/L			Analysis Date: 17-Apr-2021 13:55					
Client ID:		Run ID: ICS-Integrion_381865		SeqNo: 6048286	PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.200	0.500								
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS-	Units: mg/L			Analysis Date: 17-Apr-2021 14:13					
Client ID:		Run ID: ICS-Integrion_381865		SeqNo: 6048287	PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.82	0.500	20	0	99.1	90 - 110				
Sulfate	19.84	0.500	20	0	99.2	90 - 110				
MS	Sample ID: HS21040493-18MS	Units: mg/L			Analysis Date: 17-Apr-2021 23:25					
Client ID: MW-58		Run ID: ICS-Integrion_381865		SeqNo: 6048312	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	507.3	5.00	100	408.2	99.2	80 - 120				O
Sulfate	254.3	5.00	100	152.6	102	80 - 120				
MS	Sample ID: HS21040493-04MS	Units: mg/L			Analysis Date: 17-Apr-2021 16:40					
Client ID: MW-63		Run ID: ICS-Integrion_381865		SeqNo: 6048292	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	497.3	5.00	100	409	88.4	80 - 120				O
Sulfate	529.4	5.00	100	448.5	80.8	80 - 120				O
MSD	Sample ID: HS21040493-18MSD	Units: mg/L			Analysis Date: 17-Apr-2021 23:43					
Client ID: MW-58		Run ID: ICS-Integrion_381865		SeqNo: 6048313	PrepDate:		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	516.1	5.00	100	408.2	108	80 - 120	507.3	1.71	20	O
Sulfate	259.7	5.00	100	152.6	107	80 - 120	254.3	2.11	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

QC BATCH REPORT

Batch ID: R381865 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS21040493-04MSD	Units: mg/L			Analysis Date: 17-Apr-2021 17:54					
Client ID: MW-63	Run ID: ICS-Integrion_381865	SeqNo: 6048295		PrepDate:			DF: 10			
Analyte	Result	ML	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	493.9	5.00	100	409	84.9	80 - 120	497.3	0.696	20	O
Sulfate	526.4	5.00	100	448.5	77.9	80 - 120	529.4	0.551	20	SO

The following samples were analyzed in this batch:

HS21040493-01	HS21040493-02	HS21040493-03	HS21040493-04
HS21040493-05	HS21040493-06	HS21040493-07	HS21040493-08
HS21040493-09	HS21040493-10	HS21040493-11	HS21040493-12
HS21040493-13	HS21040493-14	HS21040493-15	HS21040493-16
HS21040493-17	HS21040493-18	HS21040493-19	HS21040493-20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21040493

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2021	31-Dec-2021
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-20-26	30-Apr-2021

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21040493

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21040493-01	MW-40	Login	4/9/2021 7:17:22 PM	PMG	MET068
HS21040493-01	MW-40	Login	4/9/2021 7:17:22 PM	PMG	Sub
HS21040493-01	MW-40	Login	4/9/2021 7:17:22 PM	PMG	WET110

Sample Receipt Checklist

Work Order ID: HS21040493

Date/Time Received: 09-Apr-2021 14:50

Client Name: TRC-HOU

Received by: Jared R. Makan

Completed By: /S/ Paresh M. Giga	10-Apr-2021 08:48	Reviewed by: /S/ Corey Grandits	12-Apr-2021 16:05
eSignature	Date/Time	eSignature	Date/Time

Matrices: **GW/Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 3 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC
- Samplers name present on COC? Yes No IDs:239577/239578/239579
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 0.9C;0.2C;0.6C;1.0C;0.4C;3.2C;3.0C;0.3C;0.3C;0.8C;2.8C U/C IR31

Cooler(s)/Kit(s): 45112/45047/46890/44891/44151/46520/47015/45098/43013/46802/46770

Date/Time sample(s) sent to storage: 4/9/2021 21:05

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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Chain of Custody Form

HS21040493

WV

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COC ID: 239577

TRC Corporation
NRG Limestone - Appendix III



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	161254	Project Name	NRG WA Parish - Appendix III	A ICP_TW (B and Ca)- Appendix III
Work Order		Project Number		B 300_W (Cl, SO4)- Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C Sub_Fluoride (Sub Fluoride to ALS Michigan)- App III
Send Report To	Lori Burris	Invoice Attn	A/P	D TDS_W 2540C (TDS)- Appendix III
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G <i>O = ms/msd volume provided</i>
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Mw-39			GW	2,8		X	X	X	X	Unable to locate - BRH						
2	Mw-40	4-9-21	1115				X	X	X	X							
3	Mw-41		935				X	X	X	X							
4	Mw-62		1255				X	X	X	X							
5	Mw-63		830				X	X	X	X							
6	Mw-64		1025				X	X	X	X							
7	Mw-23R		1245				X	X	X	X							
8	Mw-28D		1115				X	X	X	X							
9	Mw-42		1145				X	X	X	X							
10	Mw-43		1240				X	X	X	X							

Sampler(s) Please Print & Sign: Brian Hillin/HMI Team

Shipment Method: Drop off @ lab

Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Relinquished by: [Signature] Date: 4-9-21 Time: 14:50

Relinquished by: _____ Date: 4/9/21 Time: 14:50

Received by: _____

Received by (Laboratory): S. Wilson

Checked by (Laboratory): _____

Notes: **NRG CORP PRIVILEGED & CONFIDENTIAL**

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
45112	0.9°C	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist
45047	0.2°C	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV
		<input type="checkbox"/> Level IV SWB46/CLP	
		<input type="checkbox"/> Other	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

- Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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- The Chain of Custody is a legal document. All information must be completed accurately.

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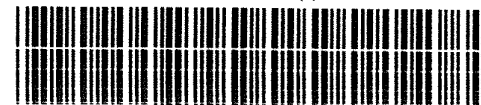
Chain of Custody Form

HS21040493

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COC ID: 239578

TRC Corporation
NRG Limestone - Appendix III



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	161254	Project Name	NRG WA Parish - Appendix III	A ICP_TW(B and Ca)- Appendix III
Work Order		Project Number		B 300_W(Cl, SO4)- Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C Sub_Fluoride (Sub Fluoride to ALS Michigan)- App III
Send Report To	Lori Burris	Invoice Attn	A/P	D TDS_W 2540C (TDS)- Appendix III
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G <i>Q = MS/MSD volume provided</i>
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-44	4-9-21	905	Gw	2,8		X	X	X	X										
2	MW-46R	↓	815	↓	↓		X	X	X	X										
3	MW-47		1150				X	X	X	X										
4	MW-48		1100				X	X	X	X										
5	MW-50		1240				X	X	X	X										
6	MW-52		1255				X	X	X	X										
7	MW-54		815				X	X	X	X										
8	MW-55R		910				X	X	X	X										
9	MW-58		1005				X	X	X	X										
10	MW-65		1010				X	X	X	X										

Sampler(s) Please Print & Sign: Brian Hillin/HMF Team

Shipment Method: Drop off @ lab

Required Turnaround Time: (Check Box) Other STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Relinquished by: [Signature] Date: 4-9-21 Time: 1450

Received by: _____

Relinquished by: _____ Date: 4/9/21 Time: 14:50

Received by (Laboratory): J. Munn

Checked by (Laboratory): _____

Logged by (Laboratory): _____

Notes: **NRG CCR PRIVILEGED & CONFIDENTIAL**

QC Package: (Check One Box Below)

Level II Std QC TRRP Checklist

Level III Std QC/Raw Date TRRP Level IV

Level IV SI/MS/CLP

Other _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

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COC ID: 239579

HS21040493

TRC Corporation
NRG Limestone - Appendix III



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3


Customer Information		Project Information		ALS Project Manager:	
Purchase Order	161254	Project Name	NRG WA Parish - Appendix III	A	ICP_TW (B and Ca)- Appendix III
Work Order		Project Number		B	300_W (Cl, SO4)- Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C	Sub_Fluoride (Sub Fluoride to ALS Michigan)- App III
Send Report To	Lori Burris	Invoice Attn	A/P	D	TDS_W 2540C (TDS)- Appendix III
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E	
				F	
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G	
Phone	(713) 244-1000	Phone	(713) 244-1000	H	
Fax	(713) 244-1099	Fax	(713) 244-1099	I	
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J	


No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-36	4-9-21	1045	GW	2,8		X	X	X	X										
2	MW-37	↓	855	↓	↓	↓	X	X	X	X										
3	MW-38R		810				X	X	X	X										
4	MW-60		1155				X	X	X	X										
5	MW-61		940				X	X	X	X										
6	DUP-01		1200				X	X	X	X										
7	DUP-02		1000				X	X	X	X										
8	FB-01	1005	FB				X	X	X	X										
9																				
10																				


Sampler(s) Please Print & Sign <i>Brian Hillin/HMF Team</i>		Shipment Method <i>Drop off @ Lab</i>		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:				
Relinquished by: <i>[Signature]</i>	Date: <i>4-9-21</i>	Time: <i>14:50</i>	Received by:		Notes: NRG CCR <input type="checkbox"/> PRIVILEGED & CONFIDENTIAL							
Relinquished by:	Date: <i>4/9/21</i>	Time: <i>14:50</i>	Received by (Laboratory): <i>J. W. [Signature]</i>		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist						
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035					<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV						
					<input type="checkbox"/> Level IV SW846/CLP							
					<input type="checkbox"/> Other							


ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed.


Copyright 2011 by ALS Environmental.


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin	Company: HMF	Date: 4-9-21


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin	Company: HMF	Date: 4-9-21

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	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		



20-Apr-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21040493**

Work Order: **21041331**

Dear Corey,

ALS Environmental received 27 samples on 14-Apr-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, light-colored signature line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS Environmental logo icon consisting of a stylized blue triangle with a yellow flame-like shape inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER
Privileged and Confidential
Page 77 of 120

Client: ALS Environmental
Project: HS21040493
Work Order: 21041331

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_210416B, 210419A, 210419B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21041331, 21041332					
Analyst Name: QN		Date 4/16/21	Reviewer Name: JB		Date: 4/16/21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < ½ MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER #¹	DESCRIPTION		
1	No exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: ALS Environmental
 Project: HS21040493
 Work Order: 21041331

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041331-01	HS21040493-01	Groundwater	MW-40	4/9/2021 11:15	4/14/2021 10:00	<input type="checkbox"/>
21041331-02	HS21040493-02	Groundwater	MW-41	4/9/2021 09:35	4/14/2021 10:00	<input type="checkbox"/>
21041331-03	HS21040493-03	Groundwater	MW-62	4/9/2021 12:55	4/14/2021 10:00	<input type="checkbox"/>
21041331-04	HS21040493-04	Groundwater	MW-63	4/9/2021 08:30	4/14/2021 10:00	<input type="checkbox"/>
21041331-05	HS21040493-05	Groundwater	MW-64	4/9/2021 10:25	4/14/2021 10:00	<input type="checkbox"/>
21041331-06	HS21040493-06	Groundwater	MW-23R	4/9/2021 12:45	4/14/2021 10:00	<input type="checkbox"/>
21041331-07	HS21040493-07	Groundwater	MW-28D	4/9/2021 11:15	4/14/2021 10:00	<input type="checkbox"/>
21041331-08	HS21040493-08	Groundwater	MW-42	4/9/2021 11:45	4/14/2021 10:00	<input type="checkbox"/>
21041331-09	HS21040493-09	Groundwater	MW-43	4/9/2021 12:40	4/14/2021 10:00	<input type="checkbox"/>
21041331-10	HS21040493-10	Groundwater	MW-44	4/9/2021 09:05	4/14/2021 10:00	<input type="checkbox"/>
21041331-11	HS21040493-11	Groundwater	MW-46R	4/9/2021 08:15	4/14/2021 10:00	<input type="checkbox"/>
21041331-12	HS21040493-12	Groundwater	MW-47	4/9/2021 11:50	4/14/2021 10:00	<input type="checkbox"/>
21041331-13	HS21040493-13	Groundwater	MW-48	4/9/2021 11:00	4/14/2021 10:00	<input type="checkbox"/>
21041331-14	HS21040493-14	Groundwater	MW-50	4/9/2021 12:40	4/14/2021 10:00	<input type="checkbox"/>
21041331-15	HS21040493-15	Groundwater	MW-52	4/9/2021 12:55	4/14/2021 10:00	<input type="checkbox"/>
21041331-16	HS21040493-16	Groundwater	MW-54	4/9/2021 08:15	4/14/2021 10:00	<input type="checkbox"/>
21041331-17	HS21040493-17	Groundwater	MW-55R	4/9/2021 09:10	4/14/2021 10:00	<input type="checkbox"/>
21041331-18	HS21040493-18	Groundwater	MW-58	4/9/2021 10:05	4/14/2021 10:00	<input type="checkbox"/>
21041331-19	HS21040493-19	Groundwater	MW-65	4/9/2021 10:10	4/14/2021 10:00	<input type="checkbox"/>
21041331-20	HS21040493-20	Groundwater	MW-36	4/9/2021 10:45	4/14/2021 10:00	<input type="checkbox"/>
21041331-21	HS21040493-21	Groundwater	MW-37	4/9/2021 08:55	4/14/2021 10:00	<input type="checkbox"/>
21041331-22	HS21040493-22	Groundwater	MW-38R	4/9/2021 08:10	4/14/2021 10:00	<input type="checkbox"/>
21041331-23	HS21040493-23	Groundwater	MW-60	4/9/2021 11:55	4/14/2021 10:00	<input type="checkbox"/>
21041331-24	HS21040493-24	Groundwater	MW-61	4/9/2021 09:40	4/14/2021 10:00	<input type="checkbox"/>
21041331-25	HS21040493-25	Groundwater	DUP-01	4/9/2021 12:00	4/14/2021 10:00	<input type="checkbox"/>
21041331-26	HS21040493-26	Groundwater	DUP-02	4/9/2021 10:00	4/14/2021 10:00	<input type="checkbox"/>
21041331-27	HS21040493-27	Water	FB-01	4/9/2021 10:05	4/14/2021 10:00	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21040493
WorkOrder: 21041331

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21041331
 Client: ALS Environmental
 Project: HS21040493

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R314231 Test Name: Fluoride

21041331-01A	HS21040493-01	Groundwater	4/9/2021 11:15:00 AM			4/16/2021 03:05 PM
21041331-02A	HS21040493-02		4/9/2021 9:35:00 AM			4/16/2021 03:05 PM
21041331-03A	HS21040493-03		4/9/2021 12:55:00 PM			4/16/2021 03:05 PM
21041331-04A	HS21040493-04		4/9/2021 8:30:00 AM			4/16/2021 03:05 PM
21041331-05A	HS21040493-05		4/9/2021 10:25:00 AM			4/16/2021 03:05 PM
21041331-06A	HS21040493-06		4/9/2021 12:45:00 PM			4/16/2021 03:05 PM

Batch ID R314366 Test Name: Fluoride

21041331-07A	HS21040493-07	Groundwater	4/9/2021 11:15:00 AM			4/19/2021 12:50 PM
21041331-08A	HS21040493-08		4/9/2021 11:45:00 AM			4/19/2021 12:50 PM
21041331-09A	HS21040493-09		4/9/2021 12:40:00 PM			4/19/2021 12:50 PM
21041331-10A	HS21040493-10		4/9/2021 9:05:00 AM			4/19/2021 12:50 PM
21041331-11A	HS21040493-11		4/9/2021 8:15:00 AM			4/19/2021 12:50 PM
21041331-12A	HS21040493-12		4/9/2021 11:50:00 AM			4/19/2021 12:50 PM
21041331-13A	HS21040493-13		4/9/2021 11:00:00 AM			4/19/2021 12:50 PM
21041331-14A	HS21040493-14		4/9/2021 12:40:00 PM			4/19/2021 12:50 PM
21041331-15A	HS21040493-15		4/9/2021 12:55:00 PM			4/19/2021 12:50 PM
21041331-16A	HS21040493-16		4/9/2021 8:15:00 AM			4/19/2021 12:50 PM

Work Order: 21041331
 Client: ALS Environmental
 Project: HS21040493

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R314367 Test Name: Fluoride						
21041331-17A	HS21040493-17	Groundwater	4/9/2021 9:10:00 AM			4/19/2021 02:51 PM
21041331-18A	HS21040493-18		4/9/2021 10:05:00 AM			4/19/2021 02:51 PM
21041331-19A	HS21040493-19		4/9/2021 10:10:00 AM			4/19/2021 02:51 PM
21041331-20A	HS21040493-20		4/9/2021 10:45:00 AM			4/19/2021 02:51 PM
21041331-21A	HS21040493-21		4/9/2021 8:55:00 AM			4/19/2021 02:51 PM
21041331-22A	HS21040493-22		4/9/2021 8:10:00 AM			4/19/2021 02:51 PM
21041331-23A	HS21040493-23		4/9/2021 11:55:00 AM			4/19/2021 02:51 PM
21041331-24A	HS21040493-24		4/9/2021 9:40:00 AM			4/19/2021 02:51 PM
21041331-25A	HS21040493-25		4/9/2021 12:00:00 PM			4/19/2021 02:51 PM
21041331-26A	HS21040493-26		4/9/2021 10:00:00 AM			4/19/2021 02:51 PM
21041331-27A	HS21040493-27	Water	4/9/2021 10:05:00 AM			4/19/2021 02:51 PM

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-01
Collection Date: 4/9/2021 11:15 AM

Work Order: 21041331
Lab ID: 21041331-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.12		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-02
Collection Date: 4/9/2021 09:35 AM

Work Order: 21041331
Lab ID: 21041331-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.32		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-03
Collection Date: 4/9/2021 12:55 PM

Work Order: 21041331
Lab ID: 21041331-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-04
Collection Date: 4/9/2021 08:30 AM

Work Order: 21041331
Lab ID: 21041331-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.13		0.058	0.10	mg/L	1	4/16/2021 15:05

Method: A4500-F C-11 Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-05
Collection Date: 4/9/2021 10:25 AM

Work Order: 21041331
Lab ID: 21041331-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.23		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-06
Collection Date: 4/9/2021 12:45 PM

Work Order: 21041331
Lab ID: 21041331-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.39		0.058	0.10	mg/L	1	4/16/2021 15:05

Method: A4500-F C-11 Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-07
Collection Date: 4/9/2021 11:15 AM

Work Order: 21041331
Lab ID: 21041331-07
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.34		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-08
Collection Date: 4/9/2021 11:45 AM

Work Order: 21041331
Lab ID: 21041331-08
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.58		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-09
Collection Date: 4/9/2021 12:40 PM

Work Order: 21041331
Lab ID: 21041331-09
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.57		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-10
Collection Date: 4/9/2021 09:05 AM

Work Order: 21041331
Lab ID: 21041331-10
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-11
Collection Date: 4/9/2021 08:15 AM

Work Order: 21041331
Lab ID: 21041331-11
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.37		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-12
Collection Date: 4/9/2021 11:50 AM

Work Order: 21041331
Lab ID: 21041331-12
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-13
Collection Date: 4/9/2021 11:00 AM

Work Order: 21041331
Lab ID: 21041331-13
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.70		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-14
Collection Date: 4/9/2021 12:40 PM

Work Order: 21041331
Lab ID: 21041331-14
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.45		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-15
Collection Date: 4/9/2021 12:55 PM

Work Order: 21041331
Lab ID: 21041331-15
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.51		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-16
Collection Date: 4/9/2021 08:15 AM

Work Order: 21041331
Lab ID: 21041331-16
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.49		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-17
Collection Date: 4/9/2021 09:10 AM

Work Order: 21041331
Lab ID: 21041331-17
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.75		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-18
Collection Date: 4/9/2021 10:05 AM

Work Order: 21041331
Lab ID: 21041331-18
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-19
Collection Date: 4/9/2021 10:10 AM

Work Order: 21041331
Lab ID: 21041331-19
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.38		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-20
Collection Date: 4/9/2021 10:45 AM

Work Order: 21041331
Lab ID: 21041331-20
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.40		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-21
Collection Date: 4/9/2021 08:55 AM

Work Order: 21041331
Lab ID: 21041331-21
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE							
Fluoride	0.26		0.058	0.10	mg/L	1	4/19/2021 14:51

Method: A4500-F C-11 Analyst: QTN

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-22
Collection Date: 4/9/2021 08:10 AM

Work Order: 21041331
Lab ID: 21041331-22
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.25		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-23
Collection Date: 4/9/2021 11:55 AM

Work Order: 21041331
Lab ID: 21041331-23
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.16		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-24
Collection Date: 4/9/2021 09:40 AM

Work Order: 21041331
Lab ID: 21041331-24
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.30		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-25
Collection Date: 4/9/2021 12:00 PM

Work Order: 21041331
Lab ID: 21041331-25
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.38		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-26
Collection Date: 4/9/2021 10:00 AM

Work Order: 21041331
Lab ID: 21041331-26
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040493
Sample ID: HS21040493-27
Collection Date: 4/9/2021 10:05 AM

Work Order: 21041331
Lab ID: 21041331-27
Matrix: WATER

Analyses	Result	Qual	SDL	SQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21041331
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A Fluoride	16984-48-8	0.080	0.090	0.058	0.10

Client: ALS Environmental
 Work Order: 21041331
 Project: HS21040493

QC BATCH REPORT

Batch ID: **R314231** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314231-R314231				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312064		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R314231-R314231				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312065		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0	103	80-120	0			

MS		Sample ID: 21041331-04AMS				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID: HS21040493-04		Run ID: TITRATOR 1_210416B				SeqNo: 7312084		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.12	0.10	5	0.13	99.8	75-125	0			

MS		Sample ID: 21041332-04AMS				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312092		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.12	0.10	5	0.13	99.8	75-125	0			

MSD		Sample ID: 21041331-04AMSD				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID: HS21040493-04		Run ID: TITRATOR 1_210416B				SeqNo: 7312085		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0.13	100	75-125	5.12	0.39	20	

MSD		Sample ID: 21041332-04AMSD				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312093		Prep Date:		DF: 1
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0.13	100	75-125	5.12	0.39	20	

The following samples were analyzed in this batch:

21041331-01A	21041331-02A	21041331-03A
21041331-04A	21041331-05A	21041331-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21041331
 Project: HS21040493

QC BATCH REPORT

Batch ID: **R314366** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314366-R314366				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316814		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride U 0.10

LCS		Sample ID: LCS-R314366-R314366				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316815		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.05 0.10 5 0 101 80-120 0

MS		Sample ID: 21040897-01G MS				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316817		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.19 0.10 5 0.07 102 75-125 0

MSD		Sample ID: 21040897-01G MSD				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316818		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.22 0.10 5 0.07 103 75-125 5.19 0.576 20

The following samples were analyzed in this batch:

21041331-07A	21041331-08A	21041331-09A
21041331-10A	21041331-11A	21041331-12A
21041331-13A	21041331-14A	21041331-15A
21041331-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21041331
 Project: HS21040493

QC BATCH REPORT

Batch ID: **R314367** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314367-R314367				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316848		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R314367-R314367				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316849		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.02	0.10	5	0	100	80-120	0			

MS		Sample ID: 21041331-18AMS				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID: HS21040493-18		Run ID: TITRATOR 1_210419B				SeqNo: 7316860		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	0			

MS		Sample ID: 21041332-18AMS				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316873		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	0			

MSD		Sample ID: 21041331-18AMSD				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID: HS21040493-18		Run ID: TITRATOR 1_210419B				SeqNo: 7316861		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	5.17	0	20	

MSD		Sample ID: 21041332-18AMSD				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316874		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	5.17	0	20	

The following samples were analyzed in this batch:

21041331-17A	21041331-18A	21041331-19A
21041331-20A	21041331-21A	21041331-22A
21041331-23A	21041331-24A	21041331-25A
21041331-26A	21041331-27A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



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Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15913

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21040493
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21040493-01	MW-40	Groundwater	09 Apr 2021 11:15
	Fluoride by ISE 4500			16 Apr 2021
2.	HS21040493-02	MW-41	Groundwater	09 Apr 2021 09:35
	Fluoride by ISE 4500			16 Apr 2021
3.	HS21040493-03	MW-62	Groundwater	09 Apr 2021 12:55
	Fluoride by ISE 4500			16 Apr 2021
4.	HS21040493-04	MW-63	Groundwater	09 Apr 2021 08:30
	Fluoride by ISE 4500			16 Apr 2021
5.	HS21040493-05	MW-64	Groundwater	09 Apr 2021 10:25
	Fluoride by ISE 4500			16 Apr 2021
6.	HS21040493-06	MW-23R	Groundwater	09 Apr 2021 12:45
	Fluoride by ISE 4500			16 Apr 2021
7.	HS21040493-07	MW-28D	Groundwater	09 Apr 2021 11:15
	Fluoride by ISE 4500			16 Apr 2021
8.	HS21040493-08	MW-42	Groundwater	09 Apr 2021 11:45
	Fluoride by ISE 4500			16 Apr 2021
9.	HS21040493-09	MW-43	Groundwater	09 Apr 2021 12:40

RIGHT SOLUTIONS | RIGHT PARTNER



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15913

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	Fluoride by ISE 4500		16 Apr 2021
10.	HS21040493-10 MW-44	Groundwater	09 Apr 2021 09:05
	Fluoride by ISE 4500		16 Apr 2021
11.	HS21040493-11 MW-46R	Groundwater	09 Apr 2021 08:15
	Fluoride by ISE 4500		16 Apr 2021
12.	HS21040493-12 MW-47	Groundwater	09 Apr 2021 11:50
	Fluoride by ISE 4500		16 Apr 2021
13.	HS21040493-13 MW-48	Groundwater	09 Apr 2021 11:00
	Fluoride by ISE 4500		16 Apr 2021
14.	HS21040493-14 MW-50	Groundwater	09 Apr 2021 12:40
	Fluoride by ISE 4500		16 Apr 2021
15.	HS21040493-15 MW-52	Groundwater	09 Apr 2021 12:55
	Fluoride by ISE 4500		16 Apr 2021
16.	HS21040493-16 MW-54	Groundwater	09 Apr 2021 08:15
	Fluoride by ISE 4500		16 Apr 2021
17.	HS21040493-17 MW-55R	Groundwater	09 Apr 2021 09:10
	Fluoride by ISE 4500		16 Apr 2021
18.	HS21040493-18 MW-58	Groundwater	09 Apr 2021 10:05
	Fluoride by ISE 4500		16 Apr 2021
19.	HS21040493-19 MW-65	Groundwater	09 Apr 2021 10:10
	Fluoride by ISE 4500		16 Apr 2021
20.	HS21040493-20 MW-36	Groundwater	09 Apr 2021 10:45
	Fluoride by ISE 4500		16 Apr 2021
21.	HS21040493-21 MW-37	Groundwater	09 Apr 2021 08:55
	Fluoride by ISE 4500		16 Apr 2021
22.	HS21040493-22 MW-38R	Groundwater	09 Apr 2021 08:10
	Fluoride by ISE 4500		16 Apr 2021
23.	HS21040493-23 MW-60	Groundwater	09 Apr 2021 11:55
	Fluoride by ISE 4500		16 Apr 2021
24.	HS21040493-24 MW-61	Groundwater	09 Apr 2021 09:40
	Fluoride by ISE 4500		16 Apr 2021



Subcontract Chain of Custody

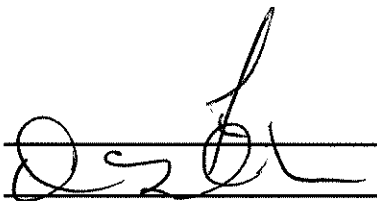

SAMPLING STATE: Texas

COC ID: 15913

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
25. HS21040493-25	DUP-01	Groundwater	09 Apr 2021 12:00
Fluoride by ISE 4500			16 Apr 2021
26. HS21040493-26	DUP-02	Groundwater	09 Apr 2021 10:00
Fluoride by ISE 4500			16 Apr 2021
27. HS21040493-27	FB-01	Water	09 Apr 2021 10:05
Fluoride by ISE 4500			16 Apr 2021

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 Batch client samples together.
 HS21040493-04 & HS21040493-18 = MS/MSD

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: 
 Received By: 
 Cooler ID(s): _____

Date/Time: 4/12/2021 1800
 Date/Time: 4/14/21 1000
 Temperature(s): 123 1.1°C

PH20

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **14-Apr-21 10:00**

Work Order: **21041331**

Received by: **DS**

Checklist completed by Diane Shaw 16-Apr-21
eSignature | Date

Reviewed by: Chad Whelton 16-Apr-21
eSignature | Date

Matrices: Groundwater

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 01, 2021

Lori Burris
TRC Corporation
16350 Park Ten Place
Suite 101
Houston, TX 77084

Work Order: **HS21040494**

Laboratory Results for: **NRG WA Parish - Appendix IV**

Dear Lori Burris,

ALS Environmental received 27 sample(s) on Apr 09, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "Corey Grandits".

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group		LRC Date: 06/01/2021					
Project Name: NRG WA Parish - Appendix IV		Laboratory Job Number: HS21040494					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 164672,164673,164674,164694,164695,R382016,R384664,R384665					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				2
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 06/01/2021			
Project Name: NRG WA Parish - Appendix IV				Laboratory Job Number: HS21040494			
Reviewer Name: Corey Grandits				Prep Batch Number(s): 164672,164673,164674,164694,164695,R382016,R384664,R384665			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 06/01/2021
Project Name: NRG WA Parish - Appendix IV	Laboratory Job Number: HS21040494
Reviewer Name: Corey Grandits	Prep Batch Number(s): 164672,164673,164674,164694,164695,R382016,R384664,R384665

ER# ⁵	Description
1	<p>Batch 164673, Metals Method SW6020, sample HS2104049318, MS was performed on unrelated sample.</p> <p>Batch 164674, Metals Method SW6020m, sample MW-58, MSD recovered outside the control limit for Barium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 164694, Mercury Method SW7470A, sample MW-63, MS and MSD recovered outside the control limit due to suspect matrix effect.</p>
2	<p>The analysis for Fluoride was subcontracted to ALS Holland, MI. Final report attached.</p> <p>The analysis for Rad-226/228 was subcontracted to ALS Fort Collins, CO. Final report attached.</p>
3	See Run Log and CCB Exceptions Report.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21040494
 Start Date: 15-Apr-2021

End Date: 16-Apr-2021

Run ID:ICPMS06_381644
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
ICV	1	15-Apr-2021 11:05	017_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICB	1	15-Apr-2021 11:07	018_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV2	1	15-Apr-2021 11:09	019LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV5	1	15-Apr-2021 11:11	020LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	15-Apr-2021 11:17	021ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	15-Apr-2021 11:29	024ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 1	1	15-Apr-2021 11:34	026_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 1	1	15-Apr-2021 11:36	027_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 2	1	15-Apr-2021 11:59	038_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 2	1	15-Apr-2021 12:01	039_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 3	1	15-Apr-2021 12:24	050_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 3	1	15-Apr-2021 12:26	051_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 4	1	15-Apr-2021 12:49	062_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 4	1	15-Apr-2021 12:50	063_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 5	1	15-Apr-2021 13:22	074_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 5	1	15-Apr-2021 13:24	075_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 6	1	15-Apr-2021 13:48	086_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 6	1	15-Apr-2021 13:50	087_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 7	1	15-Apr-2021 14:17	098_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 7	1	15-Apr-2021 14:19	099_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 8	1	15-Apr-2021 14:41	110_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 8	1	15-Apr-2021 14:43	111_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 9	1	15-Apr-2021 15:12	206_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 9	1	15-Apr-2021 15:19	208_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 10	1	15-Apr-2021 15:46	219_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 10	1	15-Apr-2021 15:54	221_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 11	1	15-Apr-2021 16:31	231_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 11	1	15-Apr-2021 16:33	232_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 12	1	15-Apr-2021 17:02	243_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 12	1	15-Apr-2021 17:04	244_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 13	1	15-Apr-2021 17:40	255_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 13	1	15-Apr-2021 17:42	256_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 14	1	15-Apr-2021 18:08	267_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 14	1	15-Apr-2021 18:10	268_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 15	1	15-Apr-2021 18:26	275_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 15	1	15-Apr-2021 18:28	276_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 16	1	15-Apr-2021 18:51	287_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 16	1	15-Apr-2021 18:53	288_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 17	1	15-Apr-2021 19:15	299_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 17	1	15-Apr-2021 19:17	300_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICCV 18	1	15-Apr-2021 20:48	315_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICCV5	1	15-Apr-2021 20:49	316LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICCV2	1	15-Apr-2021 20:51	317LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICCB 18	1	15-Apr-2021 20:53	318_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 19	1	15-Apr-2021 21:08	325_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 19	1	15-Apr-2021 21:09	326_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 20	1	15-Apr-2021 21:28	335_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 20	1	15-Apr-2021 21:30	336_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 21	1	15-Apr-2021 21:42	342_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 21	1	15-Apr-2021 21:44	343_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 22	1	15-Apr-2021 22:05	353_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21040494
 Start Date: 15-Apr-2021

End Date: 16-Apr-2021

Run ID:ICPMS06_381644
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analyses
CCB 22	1	15-Apr-2021 22:07	354_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MBLK-164674	1	15-Apr-2021 22:09	355SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-164674	1	15-Apr-2021 22:11	356SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63	1	15-Apr-2021 22:13	357SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63SD	5	15-Apr-2021 22:15	358SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63MS	1	15-Apr-2021 22:17	359SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63MSD	1	15-Apr-2021 22:19	360SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-63PDS	1	15-Apr-2021 22:21	361SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 23	1	15-Apr-2021 22:23	362_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 23	1	15-Apr-2021 22:25	363_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58	1	15-Apr-2021 22:27	364SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58SD	5	15-Apr-2021 22:29	365SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58MS	1	15-Apr-2021 22:31	366SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58MSD	1	15-Apr-2021 22:33	367SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-58PDS	1	15-Apr-2021 22:35	368SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 24	1	15-Apr-2021 22:37	369_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 24	1	15-Apr-2021 22:39	370_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	15-Apr-2021 22:41	371ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	15-Apr-2021 22:43	372ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-60	1	15-Apr-2021 22:47	374SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-61	1	15-Apr-2021 22:49	375SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
DUP-01	1	15-Apr-2021 22:52	376SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
DUP-02	1	15-Apr-2021 22:54	377SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
FB-01	1	15-Apr-2021 22:56	378SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 25	1	15-Apr-2021 22:58	379_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 25	1	15-Apr-2021 23:00	380_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 26	1	15-Apr-2021 23:14	387_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 26	1	15-Apr-2021 23:16	388_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 27	1	15-Apr-2021 23:32	396_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 27	1	15-Apr-2021 23:34	397_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 28	1	15-Apr-2021 23:57	408_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 28	1	15-Apr-2021 23:59	409_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 29	1	16-Apr-2021 00:22	420_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 29	1	16-Apr-2021 00:24	421_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 30	1	16-Apr-2021 00:28	423_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 30	1	16-Apr-2021 00:30	424_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLCCV2	1	16-Apr-2021 00:34	426LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLCCV5	1	16-Apr-2021 00:36	427LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	16-Apr-2021 00:38	428ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	16-Apr-2021 00:40	429ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21040494
 Start Date: 16-Apr-2021

End Date: 17-Apr-2021

Run ID:ICPMS06_381760
 Instrument:ICPMS06
 Method:SW6020A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	16-Apr-2021 10:20	017_ICV.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV2	1	16-Apr-2021 10:24	019LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLICV5	1	16-Apr-2021 10:26	020LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICB	1	16-Apr-2021 10:32	021_ICB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	16-Apr-2021 10:34	022ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	16-Apr-2021 10:36	023ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 1	1	16-Apr-2021 10:45	025_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 1	1	16-Apr-2021 10:47	026_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 2	1	16-Apr-2021 11:15	037_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 2	1	16-Apr-2021 11:17	038_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 3	1	16-Apr-2021 12:09	050_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 3	1	16-Apr-2021 12:11	051_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 4	1	16-Apr-2021 12:33	060_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 4	1	16-Apr-2021 12:34	061_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 5	1	16-Apr-2021 13:07	072_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 5	1	16-Apr-2021 13:09	073_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 6	1	16-Apr-2021 13:33	084_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 6	1	16-Apr-2021 13:35	085_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 7	1	16-Apr-2021 14:02	096_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 7	1	16-Apr-2021 14:04	097_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 8	1	16-Apr-2021 14:37	108_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 8	1	16-Apr-2021 14:39	109_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 9	1	16-Apr-2021 14:56	113_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 9	1	16-Apr-2021 14:58	114_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 10	1	16-Apr-2021 15:26	125_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 10	1	16-Apr-2021 15:35	128_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 11	1	16-Apr-2021 16:04	139_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 11	1	16-Apr-2021 16:10	141_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 12	1	16-Apr-2021 16:32	152_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 12	1	16-Apr-2021 16:34	153_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 13	1	16-Apr-2021 17:05	165_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 13	1	16-Apr-2021 17:12	166_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 14	1	16-Apr-2021 17:40	177_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 14	1	16-Apr-2021 17:42	178_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 15	1	16-Apr-2021 18:05	189_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 15	1	16-Apr-2021 18:07	190_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 16	1	16-Apr-2021 18:29	201_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 16	1	16-Apr-2021 18:31	202_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 17	1	16-Apr-2021 18:47	207_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 17	1	16-Apr-2021 18:51	209_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MBLK-164673	1	16-Apr-2021 19:10	218SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-164673	1	16-Apr-2021 19:12	219SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 18	1	16-Apr-2021 19:14	220_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 18	1	16-Apr-2021 19:16	221_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 19	1	16-Apr-2021 20:59	225_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 19	1	16-Apr-2021 21:00	226_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZSD	5	16-Apr-2021 21:05	228SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMS	1	16-Apr-2021 21:07	229SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMSD	1	16-Apr-2021 21:09	230SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 20	1	16-Apr-2021 21:13	232_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 20	1	16-Apr-2021 21:15	233_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 WorkOrder: HS21040494
 Start Date: 16-Apr-2021

Run ID:ICPMS06_381760
 Instrument:ICPMS06
 Method:SW6020A

End Date: 17-Apr-2021

Sample No.	D/F	Time	FileID	Analytes
CCV 21	1	16-Apr-2021 21:31	235_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-41	1	16-Apr-2021 21:33	236SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-62	1	16-Apr-2021 21:35	237SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-64	1	16-Apr-2021 21:37	238SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-23R	1	16-Apr-2021 21:39	239SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-28D	1	16-Apr-2021 21:42	240SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-42	1	16-Apr-2021 21:44	241SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-43	1	16-Apr-2021 21:46	242SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-44	1	16-Apr-2021 21:48	243SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-46R	1	16-Apr-2021 21:50	244SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 22	1	16-Apr-2021 21:52	245_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 21	1	16-Apr-2021 21:54	246_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-47	1	16-Apr-2021 21:56	247SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-48	1	16-Apr-2021 21:58	248SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-50	1	16-Apr-2021 22:00	249SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-52	1	16-Apr-2021 22:02	250SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-54	1	16-Apr-2021 22:04	251SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-55R	1	16-Apr-2021 22:06	252SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-65	1	16-Apr-2021 22:08	253SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-36	1	16-Apr-2021 22:11	254SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-37	1	16-Apr-2021 22:13	255SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-38R	1	16-Apr-2021 22:15	256SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 23	1	16-Apr-2021 22:17	257_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 22	1	16-Apr-2021 22:19	258_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 24	1	16-Apr-2021 22:40	268_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 23	1	16-Apr-2021 22:42	269_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 25	1	16-Apr-2021 22:54	275_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 24	1	16-Apr-2021 22:56	276_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	16-Apr-2021 22:59	277ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	16-Apr-2021 23:01	278ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 26	1	16-Apr-2021 23:15	285_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 25	1	16-Apr-2021 23:17	286_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 27	1	16-Apr-2021 23:34	294_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 26	1	16-Apr-2021 23:36	295_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 28	1	16-Apr-2021 23:54	304_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 27	1	16-Apr-2021 23:56	305_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MBLK-164672	1	16-Apr-2021 23:58	306SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
LCS-164672	1	17-Apr-2021 00:01	307SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZSD	5	17-Apr-2021 00:05	309SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMS	1	17-Apr-2021 00:07	310SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMSD	1	17-Apr-2021 00:09	311SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZPDS	1	17-Apr-2021 00:11	312SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 29	1	17-Apr-2021 00:13	313_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 28	1	17-Apr-2021 00:15	314_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZSD	5	17-Apr-2021 00:19	316SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMS	1	17-Apr-2021 00:21	317SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZMSD	1	17-Apr-2021 00:23	318SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
ZZZZZPDS	1	17-Apr-2021 00:25	319SMPL.d	AS BE CD CO CR MO SE
CCV 30	1	17-Apr-2021 00:27	320_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 29	1	17-Apr-2021 00:29	321_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 31	1	17-Apr-2021 00:52	332_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494
Start Date: 16-Apr-2021 **End Date:** 17-Apr-2021

Run ID: ICPMS06_381760
Instrument: ICPMS06
Method: SW6020A

Sample No.	D/F	Time	FileID	Analytes
CCB 30	1	17-Apr-2021 00:54	333_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
MW-40	1	17-Apr-2021 01:11	341SMPL.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 32	1	17-Apr-2021 01:15	343_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 31	1	17-Apr-2021 01:17	344_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCV 33	1	17-Apr-2021 01:38	354_CCV.d	AS BA BE CD CO CR LI MO PB SB SE TL
CCB 32	1	17-Apr-2021 01:40	355_CCB.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLCCV2	1	17-Apr-2021 02:48	388LCV2.d	AS BA BE CD CO CR LI MO PB SB SE TL
LLCCV5	1	17-Apr-2021 02:50	389LCV5.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSA	1	17-Apr-2021 02:52	390ICSA.d	AS BA BE CD CO CR LI MO PB SB SE TL
ICSAB	1	17-Apr-2021 02:54	391ICSB.d	AS BA BE CD CO CR LI MO PB SB SE TL

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381644
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 1	15-Apr-2021 11:36	6042567	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.704	0.4	2
	Thallium	0.223	0.2	2
CCB 2	15-Apr-2021 12:01	6042579	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.574	0.4	2
	Thallium	0.256	0.2	2
CCB 3	15-Apr-2021 12:26	6042717	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.559	0.4	2
	Thallium	0.307	0.2	2
CCB 4	15-Apr-2021 12:50	6042723	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.574	0.4	2
	Thallium	0.355	0.2	2
CCB 5	15-Apr-2021 13:24	6043000	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.566	0.4	2
	Thallium	0.364	0.2	2
CCB 6	15-Apr-2021 13:50	6043010	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.48	0.4	2
	Thallium	0.413	0.2	2
CCB 7	15-Apr-2021 14:19	6043027	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.466	0.4	2
	Thallium	0.475	0.2	2
CCB 8	15-Apr-2021 14:43	6043268	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.545	0.4	2
	Thallium	0.587	0.2	2
CCB 9	15-Apr-2021 15:12	6043278	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.52	0.4	2
	Thallium	0.404	0.2	2
CCB 10	15-Apr-2021 15:46	6043614	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.632	0.2	2
CCB 11	15-Apr-2021 16:33	6043644	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.409	0.4	2
	Thallium	0.721	0.2	2

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381644
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 12	15-Apr-2021 17:04	6043756	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.496	0.4	2
	Thallium	0.719	0.2	2
CCB 13	15-Apr-2021 17:42	6043883	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.473	0.4	2
	Thallium	0.861	0.2	2
CCB 14	15-Apr-2021 18:10	6043894	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.401	0.4	2
	Thallium	0.921	0.2	2
CCB 15	15-Apr-2021 18:28	6043920	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.178	0.2	2
CCB 16	15-Apr-2021 18:53	6044346	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.097	0.2	2
CCB 17	15-Apr-2021 19:17	6044348	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.266	0.2	2
CCB 19	15-Apr-2021 21:09	6044426	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.435	0.2	2
CCB 20	15-Apr-2021 21:30	6044436	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.511	0.2	2
CCB 21	15-Apr-2021 21:44	6044443	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.581	0.2	2
CCB 22	15-Apr-2021 22:07	6044407	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.581	0.2	2
CCB 23	15-Apr-2021 22:25	6044459	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.415	0.4	2
	Thallium	1.721	0.2	2
CCB 24	15-Apr-2021 22:39	6044466	1	ug/L
	Analyte	Result	MDL	Report Limit
	Antimony	0.509	0.4	2
	Thallium	1.601	0.2	2
CCB 25	15-Apr-2021 23:00	6044476	1	ug/L
	Analyte	Result	MDL	Report Limit

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381644
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	Analyte	Result	MDL	Report Limit	Units
			Thallium	1.667	0.2	2	
CCB 26	15-Apr-2021 23:16	6044484			D/F: 1		ug/L
			Analyte	Result	MDL	Report Limit	
			Thallium	1.508	0.2	2	
CCB 27	15-Apr-2021 23:34	6044493			D/F: 1		ug/L
			Analyte	Result	MDL	Report Limit	
			Antimony	0.427	0.4	2	
			Thallium	1.635	0.2	2	
CCB 28	15-Apr-2021 23:59	6044505			D/F: 1		ug/L
			Analyte	Result	MDL	Report Limit	
			Thallium	1.568	0.2	2	
CCB 29	16-Apr-2021 00:24	6044517			D/F: 1		ug/L
			Analyte	Result	MDL	Report Limit	
			Thallium	1.304	0.2	2	
CCB 30	16-Apr-2021 00:30	6044520			D/F: 1		ug/L
			Analyte	Result	MDL	Report Limit	
			Thallium	1.305	0.2	2	

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381760
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 1	16-Apr-2021 10:47	6045144	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.57	0.2	2
CCB 2	16-Apr-2021 11:17	6045151	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.451	0.2	2
CCB 3	16-Apr-2021 12:11	6045206	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.373	0.2	2
CCB 4	16-Apr-2021 12:34	6045215	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.439	0.2	2
CCB 5	16-Apr-2021 13:07	6045375	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.655	0.2	2
CCB 6	16-Apr-2021 13:35	6045388	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.928	0.2	2
CCB 7	16-Apr-2021 14:04	6045406	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.821	0.2	2
CCB 8	16-Apr-2021 14:39	6045620	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.802	0.2	2
CCB 9	16-Apr-2021 14:58	6045623	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.813	0.2	2
CCB 12	16-Apr-2021 16:34	6045692	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.95	0.2	2
CCB 13	16-Apr-2021 17:05	6045858	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	0.946	0.2	2
CCB 14	16-Apr-2021 17:42	6045992	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.063	0.2	2
CCB 15	16-Apr-2021 18:07	6046004	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.081	0.2	2
CCB 16	16-Apr-2021 18:31	6046016	1	ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.042	0.2	2

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381760
Instrument:ICPMS06
Method:SW6020A

CCB 18	Date: 16-Apr-2021 19:16	Seq: 6047329	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.121	0.2	2
CCB 19	Date: 16-Apr-2021 21:00	Seq: 6047332	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.258	0.2	2
CCB 20	Date: 16-Apr-2021 21:15	Seq: 6047339	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.404	0.2	2
CCB 21	Date: 16-Apr-2021 21:54	Seq: 6047352	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.389	0.2	2
CCB 22	Date: 16-Apr-2021 22:19	Seq: 6047362	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.398	0.2	2
CCB 23	Date: 16-Apr-2021 22:42	Seq: 6047375	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.39	0.2	2
CCB 24	Date: 16-Apr-2021 22:56	Seq: 6047382	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.424	0.2	2
CCB 25	Date: 16-Apr-2021 23:17	Seq: 6047392	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.433	0.2	2
CCB 26	Date: 16-Apr-2021 23:36	Seq: 6047401	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.554	0.2	2
CCB 27	Date: 16-Apr-2021 23:56	Seq: 6047411	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.547	0.2	2
CCB 28	Date: 17-Apr-2021 00:15	Seq: 6047440	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.651	0.2	2
CCB 29	Date: 17-Apr-2021 00:29	Seq: 6047447	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.641	0.2	2
CCB 30	Date: 17-Apr-2021 00:54	Seq: 6047459	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.58	0.2	2
CCB 31	Date: 17-Apr-2021 01:17	Seq: 6047421	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Thallium	1.62	0.2	2

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Run ID:ICPMS06_381760
Instrument:ICPMS06
Method:SW6020A

CCB 32	Date: 17-Apr-2021 01:40	Seq: 6047432	D/F: 1	Units: ug/L
Analyte		Result	MDL	Report Limit
Thallium		1.443	0.2	2

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21040494

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21040494-01	MW-40	Groundwater		09-Apr-2021 11:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-02	MW-41	Groundwater		09-Apr-2021 09:35	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-03	MW-62	Groundwater		09-Apr-2021 12:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-04	MW-63	Groundwater		09-Apr-2021 08:30	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-05	MW-64	Groundwater		09-Apr-2021 10:25	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-06	MW-23R	Groundwater		09-Apr-2021 12:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-07	MW-28D	Groundwater		09-Apr-2021 11:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-08	MW-42	Groundwater		09-Apr-2021 11:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-09	MW-43	Groundwater		09-Apr-2021 12:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-10	MW-44	Groundwater		09-Apr-2021 09:05	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-11	MW-46R	Groundwater		09-Apr-2021 08:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-12	MW-47	Groundwater		09-Apr-2021 11:50	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-13	MW-48	Groundwater		09-Apr-2021 11:00	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-14	MW-50	Groundwater		09-Apr-2021 12:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-15	MW-52	Groundwater		09-Apr-2021 12:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-16	MW-54	Groundwater		09-Apr-2021 08:15	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-17	MW-55R	Groundwater		09-Apr-2021 09:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-18	MW-58	Groundwater		09-Apr-2021 10:05	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-19	MW-65	Groundwater		09-Apr-2021 10:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-20	MW-36	Groundwater		09-Apr-2021 10:45	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-21	MW-37	Groundwater		09-Apr-2021 08:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-22	MW-38R	Groundwater		09-Apr-2021 08:10	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-23	MW-60	Groundwater		09-Apr-2021 11:55	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-24	MW-61	Groundwater		09-Apr-2021 09:40	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-25	DUP-01	Groundwater		09-Apr-2021 12:00	09-Apr-2021 14:50	<input type="checkbox"/>
HS21040494-26	DUP-02	Groundwater		09-Apr-2021 10:00	09-Apr-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21040494

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21040494-27	FB-01	Water		09-Apr-2021 10:05	09-Apr-2021 14:50	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-40
 Collection Date: 09-Apr-2021 11:15

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	17-Apr-2021 01:11
Arsenic	0.000886	J	0.000400	0.00200	mg/L	1	17-Apr-2021 01:11
Barium	0.534		0.00190	0.00400	mg/L	1	17-Apr-2021 01:11
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	17-Apr-2021 01:11
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	17-Apr-2021 01:11
Chromium	0.00101	J	0.000400	0.00400	mg/L	1	17-Apr-2021 01:11
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	17-Apr-2021 01:11
Lead	< 0.000600		0.000600	0.00200	mg/L	1	17-Apr-2021 01:11
Lithium	0.0393		0.00100	0.00500	mg/L	1	17-Apr-2021 01:11
Molybdenum	0.000986	J	0.000600	0.00500	mg/L	1	17-Apr-2021 01:11
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	17-Apr-2021 01:11
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	17-Apr-2021 01:11
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 11:55
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-41
 Collection Date: 09-Apr-2021 09:35

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:33
Arsenic	0.000998	J	0.000400	0.00200	mg/L	1	16-Apr-2021 21:33
Barium	0.219		0.00190	0.00400	mg/L	1	16-Apr-2021 21:33
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:33
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:33
Chromium	0.00141	J	0.000400	0.00400	mg/L	1	16-Apr-2021 21:33
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:33
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:33
Lithium	0.0218		0.00100	0.00500	mg/L	1	16-Apr-2021 21:33
Molybdenum	0.00170	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:33
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:33
Thallium	0.00158	J	0.000200	0.00200	mg/L	1	16-Apr-2021 21:33
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.0000480	J	0.0000300	0.000200	mg/L	1	16-Apr-2021 11:57
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-62
 Collection Date: 09-Apr-2021 12:55

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:35
Arsenic	0.000631	J	0.000400	0.00200	mg/L	1	16-Apr-2021 21:35
Barium	0.298		0.00190	0.00400	mg/L	1	16-Apr-2021 21:35
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:35
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:35
Chromium	0.00428		0.000400	0.00400	mg/L	1	16-Apr-2021 21:35
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:35
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:35
Lithium	0.0426		0.00100	0.00500	mg/L	1	16-Apr-2021 21:35
Molybdenum	0.000943	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:35
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:35
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:35
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000257		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:05
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-63
 Collection Date: 09-Apr-2021 08:30

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:13
Arsenic	0.00171	J	0.000400	0.00200	mg/L	1	15-Apr-2021 22:13
Barium	0.0723		0.00190	0.00400	mg/L	1	15-Apr-2021 22:13
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:13
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:13
Chromium	0.0582		0.000400	0.00400	mg/L	1	15-Apr-2021 22:13
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:13
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:13
Lithium	0.0264		0.00100	0.00500	mg/L	1	15-Apr-2021 22:13
Molybdenum	0.00154	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:13
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:13
Thallium	0.00104	J	0.000200	0.00200	mg/L	1	15-Apr-2021 22:13
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000667		0.0000300	0.000200	mg/L	1	16-Apr-2021 11:45
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-64
 Collection Date: 09-Apr-2021 10:25

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:37
Arsenic	0.000699	J	0.000400	0.00200	mg/L	1	16-Apr-2021 21:37
Barium	0.314		0.00190	0.00400	mg/L	1	16-Apr-2021 21:37
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:37
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:37
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:37
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:37
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:37
Lithium	0.0311		0.00100	0.00500	mg/L	1	16-Apr-2021 21:37
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	16-Apr-2021 21:37
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:37
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:37
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.00171		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:07
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-23R
 Collection Date: 09-Apr-2021 12:45

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:39
Arsenic	0.0198		0.000400	0.00200	mg/L	1	16-Apr-2021 21:39
Barium	0.199		0.00190	0.00400	mg/L	1	16-Apr-2021 21:39
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:39
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:39
Chromium	0.00277	J	0.000400	0.00400	mg/L	1	16-Apr-2021 21:39
Cobalt	0.00278	J	0.000200	0.00500	mg/L	1	16-Apr-2021 21:39
Lead	0.00152	J	0.000600	0.00200	mg/L	1	16-Apr-2021 21:39
Lithium	0.0456		0.00100	0.00500	mg/L	1	16-Apr-2021 21:39
Molybdenum	0.00283	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:39
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:39
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:39
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:09
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-28D
 Collection Date: 09-Apr-2021 11:15

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:42
Arsenic	0.00777		0.000400	0.00200	mg/L	1	16-Apr-2021 21:42
Barium	0.152		0.00190	0.00400	mg/L	1	16-Apr-2021 21:42
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:42
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:42
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:42
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:42
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:42
Lithium	0.0235		0.00100	0.00500	mg/L	1	16-Apr-2021 21:42
Molybdenum	0.00134	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:42
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:42
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:42
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000168	J	0.0000300	0.000200	mg/L	1	16-Apr-2021 12:10
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-42
 Collection Date: 09-Apr-2021 11:45

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:44
Arsenic	0.0418		0.000400	0.00200	mg/L	1	16-Apr-2021 21:44
Barium	0.0499		0.00190	0.00400	mg/L	1	16-Apr-2021 21:44
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:44
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:44
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:44
Cobalt	0.000580	J	0.000200	0.00500	mg/L	1	16-Apr-2021 21:44
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:44
Lithium	0.0327		0.00100	0.00500	mg/L	1	16-Apr-2021 21:44
Molybdenum	0.00654		0.000600	0.00500	mg/L	1	16-Apr-2021 21:44
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:44
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:44
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000581		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:12
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-43
 Collection Date: 09-Apr-2021 12:40

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:46
Arsenic	0.0492		0.000400	0.00200	mg/L	1	16-Apr-2021 21:46
Barium	0.108		0.00190	0.00400	mg/L	1	16-Apr-2021 21:46
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:46
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:46
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:46
Cobalt	0.000309	J	0.000200	0.00500	mg/L	1	16-Apr-2021 21:46
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:46
Lithium	0.0362		0.00100	0.00500	mg/L	1	16-Apr-2021 21:46
Molybdenum	0.00536		0.000600	0.00500	mg/L	1	16-Apr-2021 21:46
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:46
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:46
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000625		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:14
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-44
 Collection Date: 09-Apr-2021 09:05

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:48
Arsenic	0.00640		0.000400	0.00200	mg/L	1	16-Apr-2021 21:48
Barium	0.0962		0.00190	0.00400	mg/L	1	16-Apr-2021 21:48
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:48
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:48
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:48
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:48
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:48
Lithium	0.0302		0.00100	0.00500	mg/L	1	16-Apr-2021 21:48
Molybdenum	0.00330	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:48
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:48
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:48
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.000311		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:16
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-46R
 Collection Date: 09-Apr-2021 08:15

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:50
Arsenic	0.0104		0.000400	0.00200	mg/L	1	16-Apr-2021 21:50
Barium	0.235		0.00190	0.00400	mg/L	1	16-Apr-2021 21:50
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:50
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:50
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:50
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:50
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:50
Lithium	0.0295		0.00100	0.00500	mg/L	1	16-Apr-2021 21:50
Molybdenum	0.00189	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:50
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:50
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:50
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:17
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-47
 Collection Date: 09-Apr-2021 11:50

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:56
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:56
Barium	0.208		0.00190	0.00400	mg/L	1	16-Apr-2021 21:56
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:56
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:56
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:56
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 21:56
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:56
Lithium	0.0351		0.00100	0.00500	mg/L	1	16-Apr-2021 21:56
Molybdenum	0.00165	J	0.000600	0.00500	mg/L	1	16-Apr-2021 21:56
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:56
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:56
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:19
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-48
 Collection Date: 09-Apr-2021 11:00

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 21:58
Arsenic	0.0220		0.000400	0.00200	mg/L	1	16-Apr-2021 21:58
Barium	0.0744		0.00190	0.00400	mg/L	1	16-Apr-2021 21:58
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:58
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:58
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 21:58
Cobalt	0.000287	J	0.000200	0.00500	mg/L	1	16-Apr-2021 21:58
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 21:58
Lithium	0.0336		0.00100	0.00500	mg/L	1	16-Apr-2021 21:58
Molybdenum	0.00896		0.000600	0.00500	mg/L	1	16-Apr-2021 21:58
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 21:58
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 21:58
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:21
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-50
 Collection Date: 09-Apr-2021 12:40

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:00
Arsenic	0.00968		0.000400	0.00200	mg/L	1	16-Apr-2021 22:00
Barium	0.205		0.00190	0.00400	mg/L	1	16-Apr-2021 22:00
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:00
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:00
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:00
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 22:00
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:00
Lithium	0.0399		0.00100	0.00500	mg/L	1	16-Apr-2021 22:00
Molybdenum	0.00278	J	0.000600	0.00500	mg/L	1	16-Apr-2021 22:00
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:00
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:00
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:29
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-52
 Collection Date: 09-Apr-2021 12:55

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:02
Arsenic	0.0245		0.000400	0.00200	mg/L	1	16-Apr-2021 22:02
Barium	0.0564		0.00190	0.00400	mg/L	1	16-Apr-2021 22:02
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:02
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:02
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:02
Cobalt	0.00111	J	0.000200	0.00500	mg/L	1	16-Apr-2021 22:02
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:02
Lithium	0.0510		0.00100	0.00500	mg/L	1	16-Apr-2021 22:02
Molybdenum	0.00359	J	0.000600	0.00500	mg/L	1	16-Apr-2021 22:02
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:02
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:02
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:30
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-54
 Collection Date: 09-Apr-2021 08:15

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:04
Arsenic	0.00644		0.000400	0.00200	mg/L	1	16-Apr-2021 22:04
Barium	0.101		0.00190	0.00400	mg/L	1	16-Apr-2021 22:04
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:04
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:04
Chromium	0.00178	J	0.000400	0.00400	mg/L	1	16-Apr-2021 22:04
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 22:04
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:04
Lithium	0.0321		0.00100	0.00500	mg/L	1	16-Apr-2021 22:04
Molybdenum	0.00281	J	0.000600	0.00500	mg/L	1	16-Apr-2021 22:04
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:04
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:04
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:32
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-55R
 Collection Date: 09-Apr-2021 09:10

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:06
Arsenic	0.0207		0.000400	0.00200	mg/L	1	16-Apr-2021 22:06
Barium	0.0797		0.00190	0.00400	mg/L	1	16-Apr-2021 22:06
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:06
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:06
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:06
Cobalt	0.000714	J	0.000200	0.00500	mg/L	1	16-Apr-2021 22:06
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:06
Lithium	0.0444		0.00100	0.00500	mg/L	1	16-Apr-2021 22:06
Molybdenum	0.00781		0.000600	0.00500	mg/L	1	16-Apr-2021 22:06
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:06
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:06
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:34
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-58
 Collection Date: 09-Apr-2021 10:05

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:27
Arsenic	0.00619		0.000400	0.00200	mg/L	1	15-Apr-2021 22:27
Barium	0.203		0.00190	0.00400	mg/L	1	15-Apr-2021 22:27
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:27
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:27
Chromium	0.000759	J	0.000400	0.00400	mg/L	1	15-Apr-2021 22:27
Cobalt	0.000467	J	0.000200	0.00500	mg/L	1	15-Apr-2021 22:27
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:27
Lithium	0.0404		0.00100	0.00500	mg/L	1	15-Apr-2021 22:27
Molybdenum	0.00262	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:27
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:27
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:27
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:39
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-65
 Collection Date: 09-Apr-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:08
Arsenic	0.00158	J	0.000400	0.00200	mg/L	1	16-Apr-2021 22:08
Barium	0.0662		0.00190	0.00400	mg/L	1	16-Apr-2021 22:08
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:08
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:08
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:08
Cobalt	0.000265	J	0.000200	0.00500	mg/L	1	16-Apr-2021 22:08
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:08
Lithium	0.0422		0.00100	0.00500	mg/L	1	16-Apr-2021 22:08
Molybdenum	0.00341	J	0.000600	0.00500	mg/L	1	16-Apr-2021 22:08
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:08
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:08
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:45
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-36
 Collection Date: 09-Apr-2021 10:45

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:11
Arsenic	0.000588	J	0.000400	0.00200	mg/L	1	16-Apr-2021 22:11
Barium	0.0345		0.00190	0.00400	mg/L	1	16-Apr-2021 22:11
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:11
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:11
Chromium	0.00320	J	0.000400	0.00400	mg/L	1	16-Apr-2021 22:11
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 22:11
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:11
Lithium	0.0375		0.00100	0.00500	mg/L	1	16-Apr-2021 22:11
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	16-Apr-2021 22:11
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:11
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:11
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.00197		0.0000300	0.000200	mg/L	1	16-Apr-2021 12:58
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-37
 Collection Date: 09-Apr-2021 08:55

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:13
Arsenic	0.000797	J	0.000400	0.00200	mg/L	1	16-Apr-2021 22:13
Barium	0.0180		0.00190	0.00400	mg/L	1	16-Apr-2021 22:13
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:13
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:13
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:13
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	16-Apr-2021 22:13
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:13
Lithium	0.0315		0.00100	0.00500	mg/L	1	16-Apr-2021 22:13
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	16-Apr-2021 22:13
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:13
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:13
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-38R
 Collection Date: 09-Apr-2021 08:10

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	16-Apr-2021 22:15
Arsenic	0.00585		0.000400	0.00200	mg/L	1	16-Apr-2021 22:15
Barium	0.0250		0.00190	0.00400	mg/L	1	16-Apr-2021 22:15
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:15
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:15
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	16-Apr-2021 22:15
Cobalt	0.00244	J	0.000200	0.00500	mg/L	1	16-Apr-2021 22:15
Lead	< 0.000600		0.000600	0.00200	mg/L	1	16-Apr-2021 22:15
Lithium	0.0382		0.00100	0.00500	mg/L	1	16-Apr-2021 22:15
Molybdenum	0.00144	J	0.000600	0.00500	mg/L	1	16-Apr-2021 22:15
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	16-Apr-2021 22:15
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	16-Apr-2021 22:15
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:01
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-60
 Collection Date: 09-Apr-2021 11:55

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:47
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:47
Barium	0.0585		0.00190	0.00400	mg/L	1	15-Apr-2021 22:47
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:47
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:47
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	15-Apr-2021 22:47
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:47
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:47
Lithium	0.0258		0.00100	0.00500	mg/L	1	15-Apr-2021 22:47
Molybdenum	0.000876	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:47
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:47
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:47
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.0000930	J	0.0000300	0.000200	mg/L	1	16-Apr-2021 13:03
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: MW-61
 Collection Date: 09-Apr-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:49
Arsenic	0.000623	J	0.000400	0.00200	mg/L	1	15-Apr-2021 22:49
Barium	0.0140		0.00190	0.00400	mg/L	1	15-Apr-2021 22:49
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:49
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:49
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	15-Apr-2021 22:49
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:49
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:49
Lithium	0.0306		0.00100	0.00500	mg/L	1	15-Apr-2021 22:49
Molybdenum	0.000836	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:49
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:49
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:49
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:05
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: DUP-01
 Collection Date: 09-Apr-2021 12:00

ANALYTICAL REPORT

WorkOrder:HS21040494
 Lab ID:HS21040494-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:52
Arsenic	0.000437	J	0.000400	0.00200	mg/L	1	15-Apr-2021 22:52
Barium	0.0344		0.00190	0.00400	mg/L	1	15-Apr-2021 22:52
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:52
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:52
Chromium	0.00176	J	0.000400	0.00400	mg/L	1	15-Apr-2021 22:52
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:52
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:52
Lithium	0.0373		0.00100	0.00500	mg/L	1	15-Apr-2021 22:52
Molybdenum	0.000676	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:52
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:52
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:52
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	0.00173		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:06
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: DUP-02
 Collection Date: 09-Apr-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:54
Arsenic	0.00644		0.000400	0.00200	mg/L	1	15-Apr-2021 22:54
Barium	0.0948		0.00190	0.00400	mg/L	1	15-Apr-2021 22:54
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:54
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:54
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	15-Apr-2021 22:54
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:54
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:54
Lithium	0.0297		0.00100	0.00500	mg/L	1	15-Apr-2021 22:54
Molybdenum	0.00320	J	0.000600	0.00500	mg/L	1	15-Apr-2021 22:54
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:54
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:54
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:08
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix IV
 Sample ID: FB-01
 Collection Date: 09-Apr-2021 10:05

ANALYTICAL REPORT
 WorkOrder:HS21040494
 Lab ID:HS21040494-27
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 15-Apr-2021		Analyst: JHD	
Antimony	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:56
Arsenic	< 0.000400		0.000400	0.00200	mg/L	1	15-Apr-2021 22:56
Barium	< 0.00190		0.00190	0.00400	mg/L	1	15-Apr-2021 22:56
Beryllium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:56
Cadmium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:56
Chromium	< 0.000400		0.000400	0.00400	mg/L	1	15-Apr-2021 22:56
Cobalt	< 0.000200		0.000200	0.00500	mg/L	1	15-Apr-2021 22:56
Lead	< 0.000600		0.000600	0.00200	mg/L	1	15-Apr-2021 22:56
Lithium	< 0.00100		0.00100	0.00500	mg/L	1	15-Apr-2021 22:56
Molybdenum	< 0.000600		0.000600	0.00500	mg/L	1	15-Apr-2021 22:56
Selenium	< 0.00110		0.00110	0.00200	mg/L	1	15-Apr-2021 22:56
Thallium	< 0.000200		0.000200	0.00200	mg/L	1	15-Apr-2021 22:56
MERCURY BY SW7470A		Method:SW7470A		Prep:SW7470A / 16-Apr-2021		Analyst: MSC	
Mercury	< 0.0000300		0.0000300	0.000200	mg/L	1	16-Apr-2021 13:15
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	20-Apr-2021 19:29
SUBCONTRACT ANALYSIS - RADIUM 226		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:33
SUBCONTRACT ANALYSIS - RADIUM 228		Method:NA				Analyst: SUB	
Subcontract Analysis	See Attached		0		NA	1	31-May-2021 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Batch ID: 164672 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040494-01		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 164673 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040494-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-22		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 164674 **Start Date:** 15 Apr 2021 13:30 **End Date:** 15 Apr 2021 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040494-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-27		10 (mL)	10 (mL)	1	120 plastic HNO3

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

Batch ID: 164694 **Start Date:** 16 Apr 2021 07:30 **End Date:** 16 Apr 2021 10:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040494-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-17		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 164695 **Start Date:** 16 Apr 2021 07:30 **End Date:** 16 Apr 2021 10:30
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21040494-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-20		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21040494-27		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 164672 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040494-01	MW-40	09 Apr 2021 11:15		15 Apr 2021 17:30	17 Apr 2021 01:11	1
Batch ID: 164673 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040494-02	MW-41	09 Apr 2021 09:35		15 Apr 2021 17:30	16 Apr 2021 21:33	1
HS21040494-03	MW-62	09 Apr 2021 12:55		15 Apr 2021 17:30	16 Apr 2021 21:35	1
HS21040494-05	MW-64	09 Apr 2021 10:25		15 Apr 2021 17:30	16 Apr 2021 21:37	1
HS21040494-06	MW-23R	09 Apr 2021 12:45		15 Apr 2021 17:30	16 Apr 2021 21:39	1
HS21040494-07	MW-28D	09 Apr 2021 11:15		15 Apr 2021 17:30	16 Apr 2021 21:42	1
HS21040494-08	MW-42	09 Apr 2021 11:45		15 Apr 2021 17:30	16 Apr 2021 21:44	1
HS21040494-09	MW-43	09 Apr 2021 12:40		15 Apr 2021 17:30	16 Apr 2021 21:46	1
HS21040494-10	MW-44	09 Apr 2021 09:05		15 Apr 2021 17:30	16 Apr 2021 21:48	1
HS21040494-11	MW-46R	09 Apr 2021 08:15		15 Apr 2021 17:30	16 Apr 2021 21:50	1
HS21040494-12	MW-47	09 Apr 2021 11:50		15 Apr 2021 17:30	16 Apr 2021 21:56	1
HS21040494-13	MW-48	09 Apr 2021 11:00		15 Apr 2021 17:30	16 Apr 2021 21:58	1
HS21040494-14	MW-50	09 Apr 2021 12:40		15 Apr 2021 17:30	16 Apr 2021 22:00	1
HS21040494-15	MW-52	09 Apr 2021 12:55		15 Apr 2021 17:30	16 Apr 2021 22:02	1
HS21040494-16	MW-54	09 Apr 2021 08:15		15 Apr 2021 17:30	16 Apr 2021 22:04	1
HS21040494-17	MW-55R	09 Apr 2021 09:10		15 Apr 2021 17:30	16 Apr 2021 22:06	1
HS21040494-19	MW-65	09 Apr 2021 10:10		15 Apr 2021 17:30	16 Apr 2021 22:08	1
HS21040494-20	MW-36	09 Apr 2021 10:45		15 Apr 2021 17:30	16 Apr 2021 22:11	1
HS21040494-21	MW-37	09 Apr 2021 08:55		15 Apr 2021 17:30	16 Apr 2021 22:13	1
HS21040494-22	MW-38R	09 Apr 2021 08:10		15 Apr 2021 17:30	16 Apr 2021 22:15	1
Batch ID: 164674 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21040494-27	FB-01	09 Apr 2021 10:05		15 Apr 2021 17:30	15 Apr 2021 22:56	1
Batch ID: 164674 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21040494-04	MW-63	09 Apr 2021 08:30		15 Apr 2021 17:30	15 Apr 2021 22:13	1
HS21040494-18	MW-58	09 Apr 2021 10:05		15 Apr 2021 17:30	15 Apr 2021 22:27	1
HS21040494-23	MW-60	09 Apr 2021 11:55		15 Apr 2021 17:30	15 Apr 2021 22:47	1
HS21040494-24	MW-61	09 Apr 2021 09:40		15 Apr 2021 17:30	15 Apr 2021 22:49	1
HS21040494-25	DUP-01	09 Apr 2021 12:00		15 Apr 2021 17:30	15 Apr 2021 22:52	1
HS21040494-26	DUP-02	09 Apr 2021 10:00		15 Apr 2021 17:30	15 Apr 2021 22:54	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 164694 (0)		Test Name : MERCURY BY SW7470A			Matrix: Groundwater	
HS21040494-01	MW-40	09 Apr 2021 11:15		16 Apr 2021 07:30	16 Apr 2021 11:55	1
HS21040494-02	MW-41	09 Apr 2021 09:35		16 Apr 2021 07:30	16 Apr 2021 11:57	1
HS21040494-03	MW-62	09 Apr 2021 12:55		16 Apr 2021 07:30	16 Apr 2021 12:05	1
HS21040494-04	MW-63	09 Apr 2021 08:30		16 Apr 2021 07:30	16 Apr 2021 11:45	1
HS21040494-05	MW-64	09 Apr 2021 10:25		16 Apr 2021 07:30	16 Apr 2021 12:07	1
HS21040494-06	MW-23R	09 Apr 2021 12:45		16 Apr 2021 07:30	16 Apr 2021 12:09	1
HS21040494-07	MW-28D	09 Apr 2021 11:15		16 Apr 2021 07:30	16 Apr 2021 12:10	1
HS21040494-08	MW-42	09 Apr 2021 11:45		16 Apr 2021 07:30	16 Apr 2021 12:12	1
HS21040494-09	MW-43	09 Apr 2021 12:40		16 Apr 2021 07:30	16 Apr 2021 12:14	1
HS21040494-10	MW-44	09 Apr 2021 09:05		16 Apr 2021 07:30	16 Apr 2021 12:16	1
HS21040494-11	MW-46R	09 Apr 2021 08:15		16 Apr 2021 07:30	16 Apr 2021 12:17	1
HS21040494-12	MW-47	09 Apr 2021 11:50		16 Apr 2021 07:30	16 Apr 2021 12:19	1
HS21040494-13	MW-48	09 Apr 2021 11:00		16 Apr 2021 07:30	16 Apr 2021 12:21	1
HS21040494-14	MW-50	09 Apr 2021 12:40		16 Apr 2021 07:30	16 Apr 2021 12:29	1
HS21040494-15	MW-52	09 Apr 2021 12:55		16 Apr 2021 07:30	16 Apr 2021 12:30	1
HS21040494-16	MW-54	09 Apr 2021 08:15		16 Apr 2021 07:30	16 Apr 2021 12:32	1
HS21040494-17	MW-55R	09 Apr 2021 09:10		16 Apr 2021 07:30	16 Apr 2021 12:34	1
Batch ID: 164695 (0)		Test Name : MERCURY BY SW7470A			Matrix: Water	
HS21040494-27	FB-01	09 Apr 2021 10:05		16 Apr 2021 07:30	16 Apr 2021 13:15	1
Batch ID: 164695 (0)		Test Name : MERCURY BY SW7470A			Matrix: Groundwater	
HS21040494-18	MW-58	09 Apr 2021 10:05		16 Apr 2021 07:30	16 Apr 2021 12:39	1
HS21040494-19	MW-65	09 Apr 2021 10:10		16 Apr 2021 07:30	16 Apr 2021 12:45	1
HS21040494-20	MW-36	09 Apr 2021 10:45		16 Apr 2021 07:30	16 Apr 2021 12:58	1
HS21040494-21	MW-37	09 Apr 2021 08:55		16 Apr 2021 07:30	16 Apr 2021 13:00	1
HS21040494-22	MW-38R	09 Apr 2021 08:10		16 Apr 2021 07:30	16 Apr 2021 13:01	1
HS21040494-23	MW-60	09 Apr 2021 11:55		16 Apr 2021 07:30	16 Apr 2021 13:03	1
HS21040494-24	MW-61	09 Apr 2021 09:40		16 Apr 2021 07:30	16 Apr 2021 13:05	1
HS21040494-25	DUP-01	09 Apr 2021 12:00		16 Apr 2021 07:30	16 Apr 2021 13:06	1
HS21040494-26	DUP-02	09 Apr 2021 10:00		16 Apr 2021 07:30	16 Apr 2021 13:08	1
Batch ID: R382016 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21040494-27	FB-01	09 Apr 2021 10:05			20 Apr 2021 19:29	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R382016 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Groundwater	
HS21040494-01	MW-40	09 Apr 2021 11:15			20 Apr 2021 19:29	1
HS21040494-02	MW-41	09 Apr 2021 09:35			20 Apr 2021 19:29	1
HS21040494-03	MW-62	09 Apr 2021 12:55			20 Apr 2021 19:29	1
HS21040494-04	MW-63	09 Apr 2021 08:30			20 Apr 2021 19:29	1
HS21040494-05	MW-64	09 Apr 2021 10:25			20 Apr 2021 19:29	1
HS21040494-06	MW-23R	09 Apr 2021 12:45			20 Apr 2021 19:29	1
HS21040494-07	MW-28D	09 Apr 2021 11:15			20 Apr 2021 19:29	1
HS21040494-08	MW-42	09 Apr 2021 11:45			20 Apr 2021 19:29	1
HS21040494-09	MW-43	09 Apr 2021 12:40			20 Apr 2021 19:29	1
HS21040494-10	MW-44	09 Apr 2021 09:05			20 Apr 2021 19:29	1
HS21040494-11	MW-46R	09 Apr 2021 08:15			20 Apr 2021 19:29	1
HS21040494-12	MW-47	09 Apr 2021 11:50			20 Apr 2021 19:29	1
HS21040494-13	MW-48	09 Apr 2021 11:00			20 Apr 2021 19:29	1
HS21040494-14	MW-50	09 Apr 2021 12:40			20 Apr 2021 19:29	1
HS21040494-15	MW-52	09 Apr 2021 12:55			20 Apr 2021 19:29	1
HS21040494-16	MW-54	09 Apr 2021 08:15			20 Apr 2021 19:29	1
HS21040494-17	MW-55R	09 Apr 2021 09:10			20 Apr 2021 19:29	1
HS21040494-18	MW-58	09 Apr 2021 10:05			20 Apr 2021 19:29	1
HS21040494-19	MW-65	09 Apr 2021 10:10			20 Apr 2021 19:29	1
HS21040494-20	MW-36	09 Apr 2021 10:45			20 Apr 2021 19:29	1
HS21040494-21	MW-37	09 Apr 2021 08:55			20 Apr 2021 19:29	1
HS21040494-22	MW-38R	09 Apr 2021 08:10			20 Apr 2021 19:29	1
HS21040494-23	MW-60	09 Apr 2021 11:55			20 Apr 2021 19:29	1
HS21040494-24	MW-61	09 Apr 2021 09:40			20 Apr 2021 19:29	1
HS21040494-25	DUP-01	09 Apr 2021 12:00			20 Apr 2021 19:29	1
HS21040494-26	DUP-02	09 Apr 2021 10:00			20 Apr 2021 19:29	1
Batch ID: R384664 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 226			Matrix: Water	
HS21040494-27	FB-01	09 Apr 2021 10:05			31 May 2021 13:33	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R384664 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 226			Matrix: Groundwater	
HS21040494-01	MW-40	09 Apr 2021 11:15			31 May 2021 13:33	1
HS21040494-02	MW-41	09 Apr 2021 09:35			31 May 2021 13:33	1
HS21040494-03	MW-62	09 Apr 2021 12:55			31 May 2021 13:33	1
HS21040494-04	MW-63	09 Apr 2021 08:30			31 May 2021 13:33	1
HS21040494-05	MW-64	09 Apr 2021 10:25			31 May 2021 13:33	1
HS21040494-06	MW-23R	09 Apr 2021 12:45			31 May 2021 13:33	1
HS21040494-07	MW-28D	09 Apr 2021 11:15			31 May 2021 13:33	1
HS21040494-08	MW-42	09 Apr 2021 11:45			31 May 2021 13:33	1
HS21040494-09	MW-43	09 Apr 2021 12:40			31 May 2021 13:33	1
HS21040494-10	MW-44	09 Apr 2021 09:05			31 May 2021 13:33	1
HS21040494-11	MW-46R	09 Apr 2021 08:15			31 May 2021 13:33	1
HS21040494-12	MW-47	09 Apr 2021 11:50			31 May 2021 13:33	1
HS21040494-13	MW-48	09 Apr 2021 11:00			31 May 2021 13:33	1
HS21040494-14	MW-50	09 Apr 2021 12:40			31 May 2021 13:33	1
HS21040494-15	MW-52	09 Apr 2021 12:55			31 May 2021 13:33	1
HS21040494-16	MW-54	09 Apr 2021 08:15			31 May 2021 13:33	1
HS21040494-17	MW-55R	09 Apr 2021 09:10			31 May 2021 13:33	1
HS21040494-18	MW-58	09 Apr 2021 10:05			31 May 2021 13:33	1
HS21040494-19	MW-65	09 Apr 2021 10:10			31 May 2021 13:33	1
HS21040494-20	MW-36	09 Apr 2021 10:45			31 May 2021 13:33	1
HS21040494-21	MW-37	09 Apr 2021 08:55			31 May 2021 13:33	1
HS21040494-22	MW-38R	09 Apr 2021 08:10			31 May 2021 13:33	1
HS21040494-23	MW-60	09 Apr 2021 11:55			31 May 2021 13:33	1
HS21040494-24	MW-61	09 Apr 2021 09:40			31 May 2021 13:33	1
HS21040494-25	DUP-01	09 Apr 2021 12:00			31 May 2021 13:33	1
HS21040494-26	DUP-02	09 Apr 2021 10:00			31 May 2021 13:33	1
Batch ID: R384665 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 228			Matrix: Water	
HS21040494-27	FB-01	09 Apr 2021 10:05			31 May 2021 13:40	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R384665 (0)		Test Name : SUBCONTRACT ANALYSIS - RADIUM 228			Matrix: Groundwater	
HS21040494-01	MW-40	09 Apr 2021 11:15			31 May 2021 13:40	1
HS21040494-02	MW-41	09 Apr 2021 09:35			31 May 2021 13:40	1
HS21040494-03	MW-62	09 Apr 2021 12:55			31 May 2021 13:40	1
HS21040494-04	MW-63	09 Apr 2021 08:30			31 May 2021 13:40	1
HS21040494-05	MW-64	09 Apr 2021 10:25			31 May 2021 13:40	1
HS21040494-06	MW-23R	09 Apr 2021 12:45			31 May 2021 13:40	1
HS21040494-07	MW-28D	09 Apr 2021 11:15			31 May 2021 13:40	1
HS21040494-08	MW-42	09 Apr 2021 11:45			31 May 2021 13:40	1
HS21040494-09	MW-43	09 Apr 2021 12:40			31 May 2021 13:40	1
HS21040494-10	MW-44	09 Apr 2021 09:05			31 May 2021 13:40	1
HS21040494-11	MW-46R	09 Apr 2021 08:15			31 May 2021 13:40	1
HS21040494-12	MW-47	09 Apr 2021 11:50			31 May 2021 13:40	1
HS21040494-13	MW-48	09 Apr 2021 11:00			31 May 2021 13:40	1
HS21040494-14	MW-50	09 Apr 2021 12:40			31 May 2021 13:40	1
HS21040494-15	MW-52	09 Apr 2021 12:55			31 May 2021 13:40	1
HS21040494-16	MW-54	09 Apr 2021 08:15			31 May 2021 13:40	1
HS21040494-17	MW-55R	09 Apr 2021 09:10			31 May 2021 13:40	1
HS21040494-18	MW-58	09 Apr 2021 10:05			31 May 2021 13:40	1
HS21040494-19	MW-65	09 Apr 2021 10:10			31 May 2021 13:40	1
HS21040494-20	MW-36	09 Apr 2021 10:45			31 May 2021 13:40	1
HS21040494-21	MW-37	09 Apr 2021 08:55			31 May 2021 13:40	1
HS21040494-22	MW-38R	09 Apr 2021 08:10			31 May 2021 13:40	1
HS21040494-23	MW-60	09 Apr 2021 11:55			31 May 2021 13:40	1
HS21040494-24	MW-61	09 Apr 2021 09:40			31 May 2021 13:40	1
HS21040494-25	DUP-01	09 Apr 2021 12:00			31 May 2021 13:40	1
HS21040494-26	DUP-02	09 Apr 2021 10:00			31 May 2021 13:40	1

WorkOrder: HS21040494
 InstrumentID: HG03
 Test Code: HG_W
 Test Number: SW7470A
 Test Name: Mercury by SW7470A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Mercury	7439-97-6	0.000100	0.0000850	0.0000300	0.000200

WorkOrder: HS21040494
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020A
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Antimony	7440-36-0	0.00100	0.00102	0.000400	0.00200
A	Arsenic	7440-38-2	0.00100	0.00117	0.000400	0.00200
A	Barium	7440-39-3	0.00250	0.00232	0.00190	0.00400
A	Beryllium	7440-41-7	0.000500	0.000451	0.000200	0.00200
A	Cadmium	7440-43-9	0.000500	0.000450	0.000200	0.00200
A	Chromium	7440-47-3	0.00100	0.000810	0.000400	0.00400
A	Cobalt	7440-48-4	0.000500	0.000467	0.000200	0.00500
A	Lead	7439-92-1	0.00100	0.000895	0.000600	0.00200
A	Lithium	7439-93-2	0.00250	0.00197	0.00100	0.00500
A	Molybdenum	7439-98-7	0.00100	0.000928	0.000600	0.00500
A	Selenium	7782-49-2	0.00250	0.00178	0.00110	0.00200
A	Thallium	7440-28-0	0.000500	0.000390	0.000200	0.00200

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164672 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-164672	Units: mg/L			Analysis Date: 16-Apr-2021 23:58				
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6047412	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Antimony	< 0.000400	0.00200							
Arsenic	< 0.000400	0.00200							
Barium	< 0.00190	0.00400							
Beryllium	< 0.000200	0.00200							
Cadmium	< 0.000200	0.00200							
Chromium	0.00041	0.00400							J
Cobalt	< 0.000200	0.00500							
Lead	< 0.000600	0.00200							
Lithium	< 0.00100	0.00500							
Molybdenum	< 0.000600	0.00500							
Selenium	< 0.00110	0.00200							
Thallium	< 0.000200	0.00200							

LCS	Sample ID: LCS-164672	Units: mg/L			Analysis Date: 17-Apr-2021 00:01				
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6047433	PrepDate: 15-Apr-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Antimony	0.04776	0.00200	0.05	0	95.5	80 - 120			
Arsenic	0.04576	0.00200	0.05	0	91.5	80 - 120			
Barium	0.04986	0.00400	0.05	0	99.7	80 - 120			
Beryllium	0.04987	0.00200	0.05	0	99.7	80 - 120			
Cadmium	0.05149	0.00200	0.05	0	103	80 - 120			
Chromium	0.04743	0.00400	0.05	0	94.9	80 - 120			
Cobalt	0.04805	0.00500	0.05	0	96.1	80 - 120			
Lead	0.04938	0.00200	0.05	0	98.8	80 - 120			
Lithium	0.1035	0.00500	0.1	0	104	80 - 120			
Molybdenum	0.0488	0.00500	0.05	0	97.6	80 - 120			
Selenium	0.05018	0.00200	0.05	0	100	80 - 120			
Thallium	0.04899	0.00200	0.05	0	98.0	80 - 120			

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164672 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MS		Sample ID: HS21040493-04MS			Units: mg/L		Analysis Date: 17-Apr-2021 00:21			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047443		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04651	0.00200	0.05	0.000032	93.0	80 - 120				
Arsenic	0.04734	0.00200	0.05	0.001764	91.2	80 - 120				
Barium	0.1173	0.00400	0.05	0.0712	92.3	80 - 120				
Beryllium	0.04898	0.00200	0.05	0.000023	97.9	80 - 120				
Cadmium	0.0474	0.00200	0.05	0.000067	94.7	80 - 120				
Chromium	0.09834	0.00400	0.05	0.05255	91.6	80 - 120				
Cobalt	0.04457	0.00500	0.05	0.000075	89.0	80 - 120				
Lead	0.04935	0.00200	0.05	-0.000003	98.7	80 - 120				
Lithium	0.1247	0.00500	0.1	0.02605	98.7	80 - 120				
Molybdenum	0.04893	0.00500	0.05	0.001335	95.2	80 - 120				
Selenium	0.04934	0.00200	0.05	0.000832	97.0	80 - 120				
Thallium	0.04697	0.00200	0.05	0.000036	93.9	80 - 120				

MS		Sample ID: HS21040490-08MS			Units: mg/L		Analysis Date: 17-Apr-2021 00:07			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047436		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04729	0.00200	0.05	0.000041	94.5	80 - 120				
Arsenic	0.04999	0.00200	0.05	0.004973	90.0	80 - 120				
Barium	0.1847	0.00400	0.05	0.1281	113	80 - 120				
Beryllium	0.04938	0.00200	0.05	0.000008	98.7	80 - 120				
Cadmium	0.04866	0.00200	0.05	0	97.3	80 - 120				
Chromium	0.04606	0.00400	0.05	-0.000024	92.2	80 - 120				
Cobalt	0.04573	0.00500	0.05	0.000026	91.4	80 - 120				
Lead	0.04997	0.00200	0.05	0.000006	99.9	80 - 120				
Lithium	0.1305	0.00500	0.1	0.0306	99.9	80 - 120				
Molybdenum	0.05118	0.00500	0.05	0.002576	97.2	80 - 120				
Selenium	0.04825	0.00200	0.05	0.000017	96.5	80 - 120				
Thallium	0.04817	0.00200	0.05	0.001293	93.8	80 - 120				

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164672 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MSD		Sample ID: HS21040493-04MSD			Units: mg/L		Analysis Date: 17-Apr-2021 00:23			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047444		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05127	0.00200	0.05	0.000032	102	80 - 120	0.04651	9.73	20	
Arsenic	0.05149	0.00200	0.05	0.001764	99.4	80 - 120	0.04734	8.39	20	
Barium	0.1232	0.00400	0.05	0.0712	104	80 - 120	0.1173	4.87	20	
Beryllium	0.05202	0.00200	0.05	0.000023	104	80 - 120	0.04898	6.03	20	
Cadmium	0.04981	0.00200	0.05	0.000067	99.5	80 - 120	0.0474	4.97	20	
Chromium	0.1037	0.00400	0.05	0.05255	102	80 - 120	0.09834	5.34	20	
Cobalt	0.04889	0.00500	0.05	0.000075	97.6	80 - 120	0.04457	9.24	20	
Lead	0.05171	0.00200	0.05	-0.000003	103	80 - 120	0.04935	4.67	20	
Lithium	0.1345	0.00500	0.1	0.02605	108	80 - 120	0.1247	7.51	20	
Molybdenum	0.05142	0.00500	0.05	0.001335	100	80 - 120	0.04893	4.96	20	
Selenium	0.05375	0.00200	0.05	0.000832	106	80 - 120	0.04934	8.55	20	
Thallium	0.05144	0.00200	0.05	0.000036	103	80 - 120	0.04697	9.08	20	

MSD		Sample ID: HS21040490-08MSD			Units: mg/L		Analysis Date: 17-Apr-2021 00:09			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047437		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.0463	0.00200	0.05	0.000041	92.5	80 - 120	0.04729	2.12	20	
Arsenic	0.04965	0.00200	0.05	0.004973	89.4	80 - 120	0.04999	0.688	20	
Barium	0.1769	0.00400	0.05	0.1281	97.6	80 - 120	0.1847	4.29	20	
Beryllium	0.04926	0.00200	0.05	0.000008	98.5	80 - 120	0.04938	0.237	20	
Cadmium	0.04805	0.00200	0.05	0	96.1	80 - 120	0.04866	1.26	20	
Chromium	0.04431	0.00400	0.05	-0.000024	88.7	80 - 120	0.04606	3.88	20	
Cobalt	0.04495	0.00500	0.05	0.000026	89.8	80 - 120	0.04573	1.71	20	
Lead	0.04936	0.00200	0.05	0.000006	98.7	80 - 120	0.04997	1.23	20	
Lithium	0.1319	0.00500	0.1	0.0306	101	80 - 120	0.1305	1.1	20	
Molybdenum	0.04987	0.00500	0.05	0.002576	94.6	80 - 120	0.05118	2.6	20	
Selenium	0.04617	0.00200	0.05	0.000017	92.3	80 - 120	0.04825	4.41	20	
Thallium	0.04906	0.00200	0.05	0.001293	95.5	80 - 120	0.04817	1.83	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164672 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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PDS		Sample ID: HS21040493-04PDS			Units: mg/L		Analysis Date: 17-Apr-2021 00:25			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047445		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1211	0.00200	0.1	0.001764	119	75 - 125				
Beryllium	0.1202	0.00200	0.1	0.000023	120	75 - 125				
Cadmium	0.1177	0.00200	0.1	0.000067	118	75 - 125				
Chromium	0.177	0.00400	0.1	0.05255	124	75 - 125				
Cobalt	0.1194	0.00500	0.1	0.000075	119	75 - 125				
Molybdenum	0.1229	0.00500	0.1	0.001335	122	75 - 125				
Selenium	0.1257	0.00200	0.1	0.000832	125	75 - 125				

SD		Sample ID: HS21040493-04SD			Units: mg/L		Analysis Date: 17-Apr-2021 00:19			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047442		PrepDate: 15-Apr-2021		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	< 0.00200	0.0100					0.000032	0	10	
Arsenic	< 0.00200	0.0100					0.001764	0	10	
Barium	0.07116	0.0200					0.0712	0.0576	10	
Beryllium	< 0.00100	0.0100					0.000023	0	10	
Cadmium	< 0.00100	0.0100					0.000067	0	10	
Chromium	0.05172	0.0200					0.05255	1.59	10	
Cobalt	< 0.00100	0.0250					0.000075	0	10	
Lead	< 0.00300	0.0100					-0.000003	0	10	
Lithium	0.02644	0.0250					0.02605	1.51	10	
Molybdenum	< 0.00300	0.0250					0.001335	0	10	
Selenium	< 0.00550	0.0100					0.000832	0	10	
Thallium	< 0.00100	0.0100					0.000036	0	10	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164672 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A					
SD	Sample ID: HS21040490-08SD		Units: mg/L		Analysis Date: 17-Apr-2021 00:05				
Client ID:	Run ID: ICPMS06_381760		SeqNo: 6047435		PrepDate: 15-Apr-2021		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual

Antimony	< 0.00200	0.0100					0.000041	0	10
Arsenic	0.005048	0.0100					0.004973	0	10 J
Barium	0.1262	0.0200					0.1281	1.5	10
Beryllium	< 0.00100	0.0100					0.000008	0	10
Cadmium	< 0.00100	0.0100					0	0	10
Chromium	< 0.00200	0.0200					-0.000024	0	10
Cobalt	< 0.00100	0.0250					0.000026	0	10
Lead	< 0.00300	0.0100					0.000006	0	10
Lithium	0.03053	0.0250					0.0306	0.235	10
Molybdenum	< 0.00300	0.0250					0.002576	0	10
Selenium	< 0.00550	0.0100					0.000017	0	10
Thallium	< 0.00100	0.0100					0.001293	0	10

The following samples were analyzed in this batch: HS21040494-01

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164673 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MBLK		Sample ID: MBLK-164673		Units: mg/L		Analysis Date: 16-Apr-2021 19:10			
Client ID:		Run ID: ICPMS06_381760		SeqNo: 6047326		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Antimony	< 0.000400	0.00200							
Arsenic	< 0.000400	0.00200							
Barium	< 0.00190	0.00400							
Beryllium	< 0.000200	0.00200							
Cadmium	< 0.000200	0.00200							
Chromium	< 0.000400	0.00400							
Cobalt	< 0.000200	0.00500							
Lead	< 0.000600	0.00200							
Lithium	< 0.00100	0.00500							
Molybdenum	< 0.000600	0.00500							
Selenium	< 0.00110	0.00200							
Thallium	< 0.000200	0.00200							

LCS		Sample ID: LCS-164673		Units: mg/L		Analysis Date: 16-Apr-2021 19:12			
Client ID:		Run ID: ICPMS06_381760		SeqNo: 6047327		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Antimony	0.04822	0.00200	0.05	0	96.4	80 - 120			
Arsenic	0.04718	0.00200	0.05	0	94.4	80 - 120			
Barium	0.0506	0.00400	0.05	0	101	80 - 120			
Beryllium	0.05057	0.00200	0.05	0	101	80 - 120			
Cadmium	0.05104	0.00200	0.05	0	102	80 - 120			
Chromium	0.04771	0.00400	0.05	0	95.4	80 - 120			
Cobalt	0.04933	0.00500	0.05	0	98.7	80 - 120			
Lead	0.04984	0.00200	0.05	0	99.7	80 - 120			
Lithium	0.105	0.00500	0.1	0	105	80 - 120			
Molybdenum	0.04826	0.00500	0.05	0	96.5	80 - 120			
Selenium	0.05086	0.00200	0.05	0	102	80 - 120			
Thallium	0.05053	0.00200	0.05	0	101	80 - 120			

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164673 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A								
MS	Sample ID: HS21040493-18MS	Units: mg/L	Analysis Date: 16-Apr-2021 21:07							
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6047335	PrepDate: 15-Apr-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04629	0.00200	0.05	-0.000056	92.7	80 - 120				
Arsenic	0.05256	0.00200	0.05	0.006625	91.9	80 - 120				
Barium	0.2543	0.00400	0.05	0.2188	71.1	80 - 120				SO
Beryllium	0.04944	0.00200	0.05	0.000006	98.9	80 - 120				
Cadmium	0.04813	0.00200	0.05	0.000005	96.3	80 - 120				
Chromium	0.04688	0.00400	0.05	0.000307	93.2	80 - 120				
Cobalt	0.04623	0.00500	0.05	0.000495	91.5	80 - 120				
Lead	0.0496	0.00200	0.05	-0.000001	99.2	80 - 120				
Lithium	0.1416	0.00500	0.1	0.0418	99.8	80 - 120				
Molybdenum	0.05121	0.00500	0.05	0.002763	96.9	80 - 120				
Selenium	0.04952	0.00200	0.05	-0.000118	99.3	80 - 120				
Thallium	0.04792	0.00200	0.05	0.000017	95.8	80 - 120				

MSD	Sample ID: HS21040493-18MSD	Units: mg/L	Analysis Date: 16-Apr-2021 21:09							
Client ID:	Run ID: ICPMS06_381760	SeqNo: 6047336	PrepDate: 15-Apr-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04869	0.00200	0.05	-0.000056	97.5	80 - 120	0.04629	5.06	20	
Arsenic	0.05484	0.00200	0.05	0.006625	96.4	80 - 120	0.05256	4.24	20	
Barium	0.2678	0.00400	0.05	0.2188	98.1	80 - 120	0.2543	5.18	20	O
Beryllium	0.05053	0.00200	0.05	0.000006	101	80 - 120	0.04944	2.18	20	
Cadmium	0.05028	0.00200	0.05	0.000005	101	80 - 120	0.04813	4.35	20	
Chromium	0.04858	0.00400	0.05	0.000307	96.5	80 - 120	0.04688	3.55	20	
Cobalt	0.04785	0.00500	0.05	0.000495	94.7	80 - 120	0.04623	3.45	20	
Lead	0.05091	0.00200	0.05	-0.000001	102	80 - 120	0.0496	2.6	20	
Lithium	0.1445	0.00500	0.1	0.0418	103	80 - 120	0.1416	2.02	20	
Molybdenum	0.05455	0.00500	0.05	0.002763	104	80 - 120	0.05121	6.31	20	
Selenium	0.05083	0.00200	0.05	-0.000118	102	80 - 120	0.04952	2.62	20	
Thallium	0.05187	0.00200	0.05	0.000017	104	80 - 120	0.04792	7.92	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164673 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

PDS		Sample ID: HS21040493-18PDS			Units: mg/L		Analysis Date: 19-Apr-2021 11:19			
Client ID:		Run ID: ICPMS06_381877			SeqNo: 6048558		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.206	0.00200	0.2	0	103	75 - 125				
Arsenic	0.208	0.00200	0.2	0.006625	101	75 - 125				
Barium	0.4215	0.00400	0.2	0.2188	101	75 - 125				
Cadmium	0.2037	0.00200	0.2	0	102	75 - 125				
Chromium	0.2019	0.00400	0.2	0	101	75 - 125				
Cobalt	0.1983	0.00500	0.2	0.000495	98.9	75 - 125				
Lead	0.2049	0.00200	0.2	0	102	75 - 125				
Molybdenum	0.213	0.00500	0.2	0.002763	105	75 - 125				
Selenium	0.2075	0.00200	0.2	0	104	75 - 125				
Thallium	0.2118	0.00200	0.2	0	106	75 - 125				

SD		Sample ID: HS21040493-18SD			Units: mg/L		Analysis Date: 16-Apr-2021 21:05			
Client ID:		Run ID: ICPMS06_381760			SeqNo: 6047334		PrepDate: 15-Apr-2021		DF: 5	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Antimony	< 0.00200	0.0100					-0.000056	0	10	
Arsenic	0.006924	0.0100					0.006625	0	10	J
Barium	0.2112	0.0200					0.2188	3.45	10	
Beryllium	< 0.00100	0.0100					0.000006	0	10	
Cadmium	< 0.00100	0.0100					0.000005	0	10	
Chromium	< 0.00200	0.0200					0.000307	0	10	
Cobalt	< 0.00100	0.0250					0.000495	0	10	
Lead	< 0.00300	0.0100					-0.000001	0	10	
Lithium	0.04226	0.0250					0.0418	1.1	10	
Molybdenum	< 0.00300	0.0250					0.002763	0	10	
Selenium	< 0.00550	0.0100					-0.000118	0	10	
Thallium	< 0.00100	0.0100					0.000017	0	10	

The following samples were analyzed in this batch:

HS21040494-02	HS21040494-03	HS21040494-05	HS21040494-06
HS21040494-07	HS21040494-08	HS21040494-09	HS21040494-10
HS21040494-11	HS21040494-12	HS21040494-13	HS21040494-14
HS21040494-15	HS21040494-16	HS21040494-17	HS21040494-19
HS21040494-20	HS21040494-21	HS21040494-22	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164674 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MBLK		Sample ID: MBLK-164674		Units: mg/L		Analysis Date: 15-Apr-2021 22:09			
Client ID:		Run ID: ICPMS06_381644		SeqNo: 6044451		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Antimony	< 0.000400	0.00200							
Arsenic	< 0.000400	0.00200							
Barium	< 0.00190	0.00400							
Beryllium	< 0.000200	0.00200							
Cadmium	< 0.000200	0.00200							
Chromium	< 0.000400	0.00400							
Cobalt	< 0.000200	0.00500							
Lead	< 0.000600	0.00200							
Lithium	< 0.00100	0.00500							
Molybdenum	< 0.000600	0.00500							
Selenium	< 0.00110	0.00200							
Thallium	< 0.000200	0.00200							

LCS		Sample ID: LCS-164674		Units: mg/L		Analysis Date: 15-Apr-2021 22:11			
Client ID:		Run ID: ICPMS06_381644		SeqNo: 6044452		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Antimony	0.04711	0.00200	0.05	0	94.2	80 - 120			
Arsenic	0.04631	0.00200	0.05	0	92.6	80 - 120			
Barium	0.0476	0.00400	0.05	0	95.2	80 - 120			
Beryllium	0.04979	0.00200	0.05	0	99.6	80 - 120			
Cadmium	0.04993	0.00200	0.05	0	99.9	80 - 120			
Chromium	0.04641	0.00400	0.05	0	92.8	80 - 120			
Cobalt	0.04808	0.00500	0.05	0	96.2	80 - 120			
Lead	0.04633	0.00200	0.05	0	92.7	80 - 120			
Lithium	0.09936	0.00500	0.1	0	99.4	80 - 120			
Molybdenum	0.04666	0.00500	0.05	0	93.3	80 - 120			
Selenium	0.04978	0.00200	0.05	0	99.6	80 - 120			
Thallium	0.04631	0.00200	0.05	0	92.6	80 - 120			

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164674 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A								
MS	Sample ID: HS21040494-18MS	Units: mg/L	Analysis Date: 15-Apr-2021 22:31							
Client ID: MW-58	Run ID: ICPMS06_381644	SeqNo: 6044462	PrepDate: 15-Apr-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.04757	0.00200	0.05	0.000088	95.0	80 - 120				
Arsenic	0.05441	0.00200	0.05	0.006189	96.4	80 - 120				
Barium	0.255	0.00400	0.05	0.2031	104	80 - 120				O
Beryllium	0.05069	0.00200	0.05	0.00001	101	80 - 120				
Cadmium	0.04818	0.00200	0.05	0.000004	96.3	80 - 120				
Chromium	0.04829	0.00400	0.05	0.000759	95.1	80 - 120				
Cobalt	0.04744	0.00500	0.05	0.000467	93.9	80 - 120				
Lead	0.04746	0.00200	0.05	0.000004	94.9	80 - 120				
Lithium	0.1415	0.00500	0.1	0.04041	101	80 - 120				
Molybdenum	0.05251	0.00500	0.05	0.00262	99.8	80 - 120				
Selenium	0.05037	0.00200	0.05	0.000091	101	80 - 120				
Thallium	0.04455	0.00200	0.05	0.000054	89.0	80 - 120				

MS	Sample ID: HS21040494-04MS	Units: mg/L	Analysis Date: 15-Apr-2021 22:17							
Client ID: MW-63	Run ID: ICPMS06_381644	SeqNo: 6044455	PrepDate: 15-Apr-2021 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Antimony	0.05	0.00200	0.05	0.000162	99.7	80 - 120				
Arsenic	0.052	0.00200	0.05	0.001714	101	80 - 120				
Barium	0.1266	0.00400	0.05	0.07232	109	80 - 120				
Beryllium	0.0529	0.00200	0.05	0.000015	106	80 - 120				
Cadmium	0.05069	0.00200	0.05	0.000052	101	80 - 120				
Chromium	0.1116	0.00400	0.05	0.05815	107	80 - 120				
Cobalt	0.04913	0.00500	0.05	0.000085	98.1	80 - 120				
Lead	0.05085	0.00200	0.05	0.000022	102	80 - 120				
Lithium	0.1341	0.00500	0.1	0.02642	108	80 - 120				
Molybdenum	0.05293	0.00500	0.05	0.001543	103	80 - 120				
Selenium	0.05318	0.00200	0.05	0.000774	105	80 - 120				
Thallium	0.04673	0.00200	0.05	0.001042	91.4	80 - 120				

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164674 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD		Sample ID: HS21040494-18MSD			Units: mg/L		Analysis Date: 15-Apr-2021 22:33			
Client ID: MW-58		Run ID: ICPMS06_381644			SeqNo: 6044463		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04885	0.00200	0.05	0.000088	97.5	80 - 120	0.04757	2.65	20	
Arsenic	0.05624	0.00200	0.05	0.006189	100	80 - 120	0.05441	3.31	20	
Barium	0.2673	0.00400	0.05	0.2031	129	80 - 120	0.255	4.72	20	SO
Beryllium	0.05407	0.00200	0.05	0.00001	108	80 - 120	0.05069	6.44	20	
Cadmium	0.04989	0.00200	0.05	0.000004	99.8	80 - 120	0.04818	3.5	20	
Chromium	0.04953	0.00400	0.05	0.000759	97.5	80 - 120	0.04829	2.52	20	
Cobalt	0.04848	0.00500	0.05	0.000467	96.0	80 - 120	0.04744	2.18	20	
Lead	0.04953	0.00200	0.05	0.000004	99.1	80 - 120	0.04746	4.26	20	
Lithium	0.151	0.00500	0.1	0.04041	111	80 - 120	0.1415	6.51	20	
Molybdenum	0.05438	0.00500	0.05	0.00262	104	80 - 120	0.05251	3.5	20	
Selenium	0.0513	0.00200	0.05	0.000091	102	80 - 120	0.05037	1.84	20	
Thallium	0.05052	0.00200	0.05	0.000054	101	80 - 120	0.04455	12.6	20	
MSD		Sample ID: HS21040494-04MSD			Units: mg/L		Analysis Date: 15-Apr-2021 22:19			
Client ID: MW-63		Run ID: ICPMS06_381644			SeqNo: 6044456		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.04726	0.00200	0.05	0.000162	94.2	80 - 120	0.05	5.63	20	
Arsenic	0.04883	0.00200	0.05	0.001714	94.2	80 - 120	0.052	6.3	20	
Barium	0.117	0.00400	0.05	0.07232	89.4	80 - 120	0.1266	7.88	20	
Beryllium	0.05016	0.00200	0.05	0.000015	100	80 - 120	0.0529	5.33	20	
Cadmium	0.04783	0.00200	0.05	0.000052	95.6	80 - 120	0.05069	5.8	20	
Chromium	0.1029	0.00400	0.05	0.05815	89.5	80 - 120	0.1116	8.15	20	
Cobalt	0.04597	0.00500	0.05	0.000085	91.8	80 - 120	0.04913	6.64	20	
Lead	0.04769	0.00200	0.05	0.000022	95.3	80 - 120	0.05085	6.42	20	
Lithium	0.1261	0.00500	0.1	0.02642	99.7	80 - 120	0.1341	6.17	20	
Molybdenum	0.04993	0.00500	0.05	0.001543	96.8	80 - 120	0.05293	5.84	20	
Selenium	0.04961	0.00200	0.05	0.000774	97.7	80 - 120	0.05318	6.95	20	
Thallium	0.04718	0.00200	0.05	0.001042	92.3	80 - 120	0.04673	0.943	20	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164674 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

PDS		Sample ID: HS21040494-18PDS			Units: mg/L		Analysis Date: 15-Apr-2021 22:35			
Client ID: MW-58		Run ID: ICPMS06_381644			SeqNo: 6044464		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09278	0.00200	0.1	0.000088	92.7	75 - 125				
Arsenic	0.1031	0.00200	0.1	0.006189	96.9	75 - 125				
Barium	0.2982	0.00400	0.1	0.2031	95.2	75 - 125				
Beryllium	0.1045	0.00200	0.1	0.00001	104	75 - 125				
Cadmium	0.09884	0.00200	0.1	0.000004	98.8	75 - 125				
Chromium	0.09672	0.00400	0.1	0.000759	96.0	75 - 125				
Cobalt	0.09888	0.00500	0.1	0.000467	98.4	75 - 125				
Lead	0.09961	0.00200	0.1	0.000004	99.6	75 - 125				
Lithium	0.1412	0.00500	0.1	0.04041	101	70 - 125				
Molybdenum	0.1045	0.00500	0.1	0.00262	102	75 - 125				
Selenium	0.1002	0.00200	0.1	0.000091	100	75 - 125				
Thallium	0.104	0.00200	0.1	0.000054	104	75 - 125				

PDS		Sample ID: HS21040494-04PDS			Units: mg/L		Analysis Date: 15-Apr-2021 22:21			
Client ID: MW-63		Run ID: ICPMS06_381644			SeqNo: 6044457		PrepDate: 15-Apr-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.09958	0.00200	0.1	0.000162	99.4	75 - 125				
Arsenic	0.1031	0.00200	0.1	0.001714	101	75 - 125				
Barium	0.1727	0.00400	0.1	0.07232	100	75 - 125				
Beryllium	0.1054	0.00200	0.1	0.000015	105	75 - 125				
Cadmium	0.1001	0.00200	0.1	0.000052	100	75 - 125				
Chromium	0.1602	0.00400	0.1	0.05815	102	75 - 125				
Cobalt	0.1036	0.00500	0.1	0.000085	103	75 - 125				
Lead	0.1015	0.00200	0.1	0.000022	102	75 - 125				
Lithium	0.1303	0.00500	0.1	0.02642	104	70 - 125				
Molybdenum	0.1049	0.00500	0.1	0.001543	103	75 - 125				
Selenium	0.1066	0.00200	0.1	0.000774	106	75 - 125				
Thallium	0.1028	0.00200	0.1	0.001042	102	75 - 125				

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164674 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A					
SD	Sample ID: HS21040494-18SD		Units: mg/L		Analysis Date: 15-Apr-2021 22:29				
Client ID: MW-58	Run ID: ICPMS06_381644		SeqNo: 6044461		PrepDate: 15-Apr-2021		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual

Antimony	< 0.00200	0.0100					0.000088	0	10
Arsenic	0.006148	0.0100					0.006189	0	10 J
Barium	0.2019	0.0200					0.2031	0.587	10
Beryllium	< 0.00100	0.0100					0.00001	0	10
Cadmium	< 0.00100	0.0100					0.000004	0	10
Chromium	< 0.00200	0.0200					0.000759	0	10
Cobalt	< 0.00100	0.0250					0.000467	0	10
Lead	< 0.00300	0.0100					0.000004	0	10
Lithium	0.04049	0.0250					0.04041	0.198	10
Molybdenum	< 0.00300	0.0250					0.00262	0	10
Selenium	< 0.00550	0.0100					0.000091	0	10
Thallium	< 0.00100	0.0100					0.000054	0	10

SD	Sample ID: HS21040494-04SD		Units: mg/L		Analysis Date: 15-Apr-2021 22:15				
Client ID: MW-63	Run ID: ICPMS06_381644		SeqNo: 6044454		PrepDate: 15-Apr-2021		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual

Antimony	< 0.00200	0.0100					0.000162	0	10
Arsenic	< 0.00200	0.0100					0.001714	0	10
Barium	0.07305	0.0200					0.07232	1.01	10
Beryllium	< 0.00100	0.0100					0.000015	0	10
Cadmium	< 0.00100	0.0100					0.000052	0	10
Chromium	0.05876	0.0200					0.05815	1.05	10
Cobalt	< 0.00100	0.0250					0.000085	0	10
Lead	< 0.00300	0.0100					0.000022	0	10
Lithium	0.02763	0.0250					0.02642	4.58	10
Molybdenum	< 0.00300	0.0250					0.001543	0	10
Selenium	< 0.00550	0.0100					0.000774	0	10
Thallium	< 0.00100	0.0100					0.001042	0	10

The following samples were analyzed in this batch:

HS21040494-04	HS21040494-18	HS21040494-23	HS21040494-24
HS21040494-25	HS21040494-26	HS21040494-27	

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164694 (0)										
Instrument: HG03				Method: MERCURY BY SW7470A						
MBLK	Sample ID: MBLK-164694	Units: mg/L			Analysis Date: 16-Apr-2021 11:41					
Client ID:		Run ID: HG03_381746		SeqNo: 6045010	PrepDate: 16-Apr-2021	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Mercury	< 0.0000300	0.000200								

LCS	Sample ID: LCS-164694	Units: mg/L			Analysis Date: 16-Apr-2021 11:43					
Client ID:		Run ID: HG03_381746		SeqNo: 6045011	PrepDate: 16-Apr-2021	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Mercury	0.00485	0.000200	0.005	0	97.0	80 - 120				

MS	Sample ID: HS21040494-04MS	Units: mg/L			Analysis Date: 16-Apr-2021 11:47					
Client ID: MW-63		Run ID: HG03_381746		SeqNo: 6045013	PrepDate: 16-Apr-2021	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Mercury	0.00405	0.000200	0.005	0.000667	67.7	75 - 125				S

MSD	Sample ID: HS21040494-04MSD	Units: mg/L			Analysis Date: 16-Apr-2021 11:48					
Client ID: MW-63		Run ID: HG03_381746		SeqNo: 6045014	PrepDate: 16-Apr-2021	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Mercury	0.00391	0.000200	0.005	0.000667	64.9	75 - 125	0.00405	3.52	20	S

The following samples were analyzed in this batch:	HS21040494-01	HS21040494-02	HS21040494-03	HS21040494-04
	HS21040494-05	HS21040494-06	HS21040494-07	HS21040494-08
	HS21040494-09	HS21040494-10	HS21040494-11	HS21040494-12
	HS21040494-13	HS21040494-14	HS21040494-15	HS21040494-16
	HS21040494-17			

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

QC BATCH REPORT

Batch ID: 164695 (0) **Instrument:** HG03 **Method:** MERCURY BY SW7470A

MBLK Sample ID: **MBLK-164695** Units: **mg/L** Analysis Date: **16-Apr-2021 12:35**
 Client ID: Run ID: **HG03_381746** SeqNo: **6045098** PrepDate: **16-Apr-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury < 0.0000300 0.000200

LCS Sample ID: **LCS-164695** Units: **mg/L** Analysis Date: **16-Apr-2021 12:37**
 Client ID: Run ID: **HG03_381746** SeqNo: **6045099** PrepDate: **16-Apr-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.00464 0.000200 0.005 0 92.8 80 - 120

MS Sample ID: **HS21040494-18MS** Units: **mg/L** Analysis Date: **16-Apr-2021 12:42**
 Client ID: **MW-58** Run ID: **HG03_381746** SeqNo: **6045101** PrepDate: **16-Apr-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.00454 0.000200 0.005 -0.000007 90.9 75 - 125

MSD Sample ID: **HS21040494-18MSD** Units: **mg/L** Analysis Date: **16-Apr-2021 12:44**
 Client ID: **MW-58** Run ID: **HG03_381746** SeqNo: **6045102** PrepDate: **16-Apr-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Mercury 0.00446 0.000200 0.005 -0.000007 89.3 75 - 125 0.00454 1.78 20

The following samples were analyzed in this batch: HS21040494-18 HS21040494-19 HS21040494-20 HS21040494-21
 HS21040494-22 HS21040494-23 HS21040494-24 HS21040494-25
 HS21040494-26 HS21040494-27

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
WorkOrder: HS21040494

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2021	31-Dec-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-21-27	30-Apr-2022

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21040494

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS21040494-01	MW-40	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-01	MW-40	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-01	MW-40	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-02	MW-41	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-02	MW-41	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-02	MW-41	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-03	MW-62	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-03	MW-62	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-03	MW-62	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-04	MW-63	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-04	MW-63	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-04	MW-63	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-05	MW-64	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-05	MW-64	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-05	MW-64	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-06	MW-23R	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-06	MW-23R	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-06	MW-23R	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-07	MW-28D	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-07	MW-28D	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-07	MW-28D	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-08	MW-42	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-08	MW-42	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-08	MW-42	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-09	MW-43	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-09	MW-43	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-09	MW-43	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-10	MW-44	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-10	MW-44	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-10	MW-44	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-11	MW-46R	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-11	MW-46R	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-11	MW-46R	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-12	MW-47	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-12	MW-47	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-12	MW-47	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-13	MW-48	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-13	MW-48	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-13	MW-48	Login	4/9/2021 7:46:06 PM	PMG	WET228

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21040494

SAMPLE TRACKING

HS21040494-14	MW-50	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-14	MW-50	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-14	MW-50	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-15	MW-52	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-15	MW-52	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-15	MW-52	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-16	MW-54	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-16	MW-54	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-16	MW-54	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-17	MW-55R	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-17	MW-55R	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-17	MW-55R	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-18	MW-58	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-18	MW-58	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-18	MW-58	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-19	MW-65	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-19	MW-65	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-19	MW-65	Login	4/9/2021 7:46:06 PM	PMG	WET228
HS21040494-20	MW-36	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-20	MW-36	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-20	MW-36	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-21	MW-37	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-21	MW-37	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-21	MW-37	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-22	MW-38R	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-22	MW-38R	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-22	MW-38R	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-23	MW-60	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-23	MW-60	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-23	MW-60	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-24	MW-61	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-24	MW-61	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-24	MW-61	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-25	DUP-01	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-25	DUP-01	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-25	DUP-01	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-26	DUP-02	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-26	DUP-02	Login	4/9/2021 7:46:06 PM	PMG	Sub
HS21040494-26	DUP-02	Login	4/9/2021 7:46:06 PM	PMG	WET227
HS21040494-27	FB-01	Login	4/9/2021 7:46:06 PM	PMG	MET021
HS21040494-27	FB-01	Login	4/9/2021 7:46:06 PM	PMG	Sub

Client: TRC Corporation
Project: NRG WA Parish - Appendix IV
Work Order: HS21040494

SAMPLE TRACKING

HS21040494-27	FB-01	Login	4/9/2021 7:46:06 PM	PMG	WET227
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Sample Receipt Checklist

Work Order ID: HS21040494

Date/Time Received: 09-Apr-2021 14:50

Client Name: TRC-HOU

Received by: Jared R. Makan

Completed By: /S/ Paresh M. Giga 10-Apr-2021 08:52 Reviewed by: /S/ Corey Grandits 12-Apr-2021 16:08
eSignature Date/Time eSignature Date/Time

Matrices:

Carrier name: Client

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

3 Page(s)
COC
IDs:2395/239574/239575

Temperature(s)/Thermometer(s): 0.9C;0.2C;0.6C;1.0C;0.4C;3.2C;3.0C;0.3C;0.3C;0.8 C;2.8C U/C IR31

Cooler(s)/Kit(s): 45112/45047/46890/44891/44151/46520/47015/45098/43013/46802/46770

Date/Time sample(s) sent to storage: 4/9/2021 21:05

- Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Chain of Custody Form

Page 1 of 3

COC ID: 239573

HS21040494

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	161254	Project Name	NRG WA Parish - Appendix IV	A
Work Order		Project Number		B
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C
Send Report To	Lori Burris	Invoice Attn	A/P	D
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

O = ms/msd volume provided

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-39			GW	2.8		X	X	X	X	X	Unable to locate BRH					
2	MW-40	4-9-21	1115				X	X	X	X	X						
3	MW-41		935				X	X	X	X	X						
4	MW-62		1255				X	X	X	X	X						
5	MW-63		830				X	X	X	X	X						
6	MW-64		1025				X	X	X	X	X						
7	MW-23R		1245				X	X	X	X	X						
8	MW-28D		1115				X	X	X	X	X						
9	MW-42		1145				X	X	X	X	X						
10	MW-43		1240				X	X	X	X	X						

Sampler(s) Please Print & Sign Brian Hillin/HMI Team		Shipment Method Drop off @ Lab		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			Results Due Date:	
Relinquished by:	Date: 4-9-21	Time: 1450	Received by:	Notes: NRG CORP/PRIVILEGED & CONFIDENTIAL				
Relinquished by:	Date: 4/9/21	Time: 14:50	Received by (Laboratory): J. MAJUMDAR	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV	
						<input type="checkbox"/> Level IV SW846/CLP		
						<input type="checkbox"/> Other		

- ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

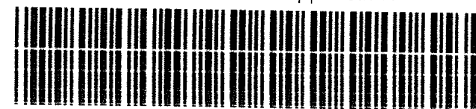
Page 2 of 3

COC ID: 239574

HS21040494

wv

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	161254	Project Name	NRG WA Parish - Appendix IV	A
Work Order		Project Number		B
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C
Send Report To	Lori Burris	Invoice Attn	A/P	D
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E
				F
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G
Phone	(713) 244-1000	Phone	(713) 244-1000	H
Fax	(713) 244-1099	Fax	(713) 244-1099	I
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J

O = MS/MSD volume provided

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-44	4-9-21	905	GW	2,8		X	X	X	X	X						
2	MW-46R	↓	815	↓	↓		X	X	X	X	X						
3	MW-47		X				X	X	X								
4	MW-48		X				X	X	X								
5	MW-50		X				X	X	X								
6	MW-52		X				X	X	X								
7	MW-54		X				X	X	X								
8	MW-55R		X				X	X	X								
9	MW-58		X				X	X	X								
10	MW-65		X				X	X	X								

Sampler(s) Please Print & Sign <i>Brian Hillin / HMI team</i>		Shipment Method Drop off @ lab		Required Turnaround Time: (Check Box) <input type="checkbox"/> STD 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 4-9-21	Time: 14:50	Received by:	Notes: NRG CCR0PRIVILEGED & CONFIDENTIAL				
Relinquished by:	Date: 4/9/21	Time: 14:50	Received by (Laboratory): <i>J. Muelman</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	<input checked="" type="checkbox"/>	Level II Std QC	<input type="checkbox"/>	TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/>	Level III Std QC/Raw Date	<input type="checkbox"/>	TRRP Level IV	
				<input type="checkbox"/>	Level IV SI/MS/CLP			
				<input type="checkbox"/>	Other			

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Chain of Custody Form

HS21040494

WV

Page 3 of 3

COC ID: 239575

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:											
Purchase Order	161254	Project Name	NRG WA Parish - Appendix IV	A	Hg_w (Mercury)- Appendix IV										
Work Order		Project Number		B	ICP_TW (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Ti) App IV										
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C	Sub_Fluoride (Sub Fluoride to ALS Michigan)- App IV										
Send Report To	Lori Burris	Invoice Attn	A/P	D	SUB_RA 226 (Sub RA 226 to ALS Fort Collins)- App IV										
Address	16350 Park Ten Place Suite 101	Address	16350 Park Ten Place Suite 101	E	SUB_RA 228 (Sub RA 228 to ALS Fort Collins)- App IV										
				F											
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77084	G											
Phone	(713) 244-1000	Phone	(713) 244-1000	H											
Fax	(713) 244-1099	Fax	(713) 244-1099	I											
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-36	4-9-21	1045	GW	2,8		X	X	X	X	X						
2	MW-37		855				X	X	X	X	X						
3	MW-38R		810				X	X	X	X	X						
4	MW-60		1155				X	X	X	X	X						
5	MW-61		940				X	X	X	X	X						
6	DUP-01		1200				X	X	X	X	X						
7	DUP-02		1000				X	X	X	X	X						
8	FB-01		1005	FB			X	X	X	X	X						
9																	
10																	

Sampler(s) Please Print & Sign
 Relinquished by: Brian Hillin / HMI Team
 Relinquished by: [Signature]
 Logged by (Laboratory): _____

Shipment Method
Drop off @ Lab

Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____


Received by: _____
Received by (Laboratory): J. Wainman
Checked by (Laboratory): _____

Notes: NRG CCR PRIVILEGED & CONFIDENTIAL


QC Package: (Check One Box Below)
 Level II Std QC TRRP Checklist
 Level III Std QC/Raw Date TRRP Level IV
 Level IV SW648/CLP
 Other _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035


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 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


45047

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


45112

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


46670

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


46670

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


46802


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


43013


 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: PM
	Date: 4-9-21	Time: 1430	Date: 4-9-21
	Name: Brian Hillin	Company: HMF	


45048

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: 4-9-21	Time: 1430	PM
	Name: Brian Hillin		Date: 4-9-21
	Company: HMF		



Friday, May 14, 2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd, Suite 210
Houston, TX 77099

Re: ALS Workorder: 2104279
Project Name:
Project Number: HS21040494

Dear Mr. Grandits:

Twenty seven water samples were received from ALS Environmental, on 4/14/2021. The samples were scheduled for the following analyses:

Radium-226

Radium-228

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.

Appendix A

Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Job No. 2104279 and laboratory batch no(s). RE210417-7, RE210417-8, RA210510-1 and RA210510-2 and consists of:

- This signature page, the laboratory review checklist, and the following reportable data:
 - R1 - Field chain-of-custody documentation;
 - R2 - Sample identification cross-reference;
 - R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. Dilution factors,
 - c. Preparation methods,
 - d. Cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
 - R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
 - R5 - Test reports/summary forms for blank samples;
 - R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
 - R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,

- c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d. Calculated %Rs and relative percent differences (RPDs), and
- e. The laboratory’s MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

- a. The amount of analyte measured in the duplicate,
- b. The calculated RPD, and
- c. The laboratory’s QC limits for analytical duplicates.

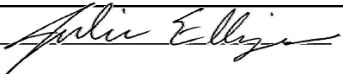
R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

The Exception Report for each “No” or “Not Reviewed (NR)” item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: This laboratory meets an exception under 30 TAC §25.6 and was last inspection by TCEQ or _____ on **(enter date of last inspection)**. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name (Printed)	Signature	Official Title (printed)	Date
Julie Ellingson		CS Manager	5-31-2021

Laboratory Review Checklist: Reportable Data - Page 2 of 4

Laboratory Name: ALS Laboratory Group		LRC Date: 5-31-2021					
Project Name:		Laboratory Job Number: 2104279					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210417-7, RE210417-8. RA210510-1, RA210510-2					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					

Laboratory Name: ALS Laboratory Group		LRC Date: 5-31-2021					
Project Name:		Laboratory Job Number: 2104279					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210417-7, RE210417-8. RA210510-1, RA210510-2EX210513-1, EX210513-2					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?			X		
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?			X		

Laboratory Name: ALS Laboratory Group		LRC Date: 5-31-2021					
Project Name:		Laboratory Job Number: 2104279					
Reviewer Name: Julie Ellingson		Prep Batch Number(s): RE210417-7, RE210417-8. RA210510-1, RA210510-2					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Are unadjusted MQLs and DCSs included in the laboratory data package?			X		
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
<p>1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period;</p> <p>2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);</p> <p>3. NA = Not applicable;</p> <p>4. NR = Not reviewed;</p> <p>5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>							



2104279

Radium-228:

The samples were analyzed for the presence of ^{228}Ra by low background gas flow proportional counting of ^{228}Ac , which is the ingrown progeny of ^{228}Ra , according to the current revision of EPA 904.0.

All acceptance criteria were met.

Radium-226:

The samples were prepared and analyzed according to the current revision of EPA 903.1.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2104279

Client Name: ALS Environmental

Client Project Name:

Client Project Number: HS21040494

Client PO Number: 10-15915

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-40	2104279-1		WATER	09-Apr-21	11:15
MW-41	2104279-2		WATER	09-Apr-21	9:35
MW-62	2104279-3		WATER	09-Apr-21	12:55
MW-63	2104279-4		WATER	09-Apr-21	8:30
MW-64	2104279-5		WATER	09-Apr-21	10:25
MW-23R	2104279-6		WATER	09-Apr-21	12:45
MW-28D	2104279-7		WATER	09-Apr-21	11:15
MW-42	2104279-8		WATER	09-Apr-21	11:45
MW-43	2104279-9		WATER	09-Apr-21	12:40
MW-44	2104279-10		WATER	09-Apr-21	9:05
MW-46R	2104279-11		WATER	09-Apr-21	8:15
MW-47	2104279-12		WATER	09-Apr-21	11:50
MW-48	2104279-13		WATER	09-Apr-21	11:00
MW-50	2104279-14		WATER	09-Apr-21	12:40
MW-52	2104279-15		WATER	09-Apr-21	12:55
MW-54	2104279-16		WATER	09-Apr-21	8:15
MW-55R	2104279-17		WATER	09-Apr-21	9:10
MW-58	2104279-18		WATER	09-Apr-21	10:05
MW-65	2104279-19		WATER	09-Apr-21	10:10
MW-36	2104279-20		WATER	09-Apr-21	10:45
MW-37	2104279-21		WATER	09-Apr-21	8:55
MW-38R	2104279-22		WATER	09-Apr-21	8:10
MW-60	2104279-23		WATER	09-Apr-21	11:55
MW-61	2104279-24		WATER	09-Apr-21	9:40
DUP-01	2104279-25		WATER	09-Apr-21	12:00
DUP-02	2104279-26		WATER	09-Apr-21	10:00
FB-01	2104279-27		WATER	09-Apr-21	10:05



10450 Stancliff Rd, Ste 210
 Houston, TX 77099
 T: +1 281 530 5656
 F: +1 281 530 5887
 www.alsglobal.com

2104279

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15915

SUBCONTRACT TO:

ALS Environmental, Fort Collins
 225 Commerce Drive
 Fort Collins, CO 80524

Phone: +1 970 490 1511

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21040494
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21040494-01	MW-40	Groundwater	09 Apr 2021 11:15
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
2.	HS21040494-02	MW-41	Groundwater	09 Apr 2021 09:35
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
3.	HS21040494-03	MW-62	Groundwater	09 Apr 2021 12:55
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
4.	HS21040494-04	MW-63	Groundwater	09 Apr 2021 08:30
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
5.	HS21040494-05	MW-64	Groundwater	09 Apr 2021 10:25
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
6.	HS21040494-06	MW-23R	Groundwater	09 Apr 2021 12:45
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021

Please ignore sampling times on labels
 COC times are correct



2104279

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15915

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
7.	HS21040494-07	MW-28D	Groundwater	09 Apr 2021 11:15
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
8.	HS21040494-08	MW-42	Groundwater	09 Apr 2021 11:45
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
9.	HS21040494-09	MW-43	Groundwater	09 Apr 2021 12:40
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
10.	HS21040494-10	MW-44	Groundwater	09 Apr 2021 09:05
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
11.	HS21040494-11	MW-46R	Groundwater	09 Apr 2021 08:15
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
12.	HS21040494-12	MW-47	Groundwater	09 Apr 2021 11:50
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
13.	HS21040494-13	MW-48	Groundwater	09 Apr 2021 11:00
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
14.	HS21040494-14	MW-50	Groundwater	09 Apr 2021 12:40
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
15.	HS21040494-15	MW-52	Groundwater	09 Apr 2021 12:55
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
16.	HS21040494-16	MW-54	Groundwater	09 Apr 2021 08:15
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual			30 Apr 2021
17.	HS21040494-17	MW-55R	Groundwater	09 Apr 2021 09:10



2104279

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15915

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
18. HS21040494-18	MW-58	Groundwater	09 Apr 2021 10:05
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
19. HS21040494-19	MW-65	Groundwater	09 Apr 2021 10:10
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
20. HS21040494-20	MW-36	Groundwater	09 Apr 2021 10:45
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
21. HS21040494-21	MW-37	Groundwater	09 Apr 2021 08:55
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
22. HS21040494-22	MW-38R	Groundwater	09 Apr 2021 08:10
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
23. HS21040494-23	MW-60	Groundwater	09 Apr 2021 11:55
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
24. HS21040494-24	MW-61	Groundwater	09 Apr 2021 09:40
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
25. HS21040494-25	DUP-01	Groundwater	09 Apr 2021 12:00
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
26. HS21040494-26	DUP-02	Groundwater	09 Apr 2021 10:00
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021
27. HS21040494-27	FB-01	Water	09 Apr 2021 10:05
	Report Combined RA 226/228 Value &the 2 Individual		30 Apr 2021



2104279

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15915

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
Report Combined RA 226/228 Value & the 2 Individual			30 Apr 2021

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 HS21040494-04 & HS21040494-18 = MS/MSD

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: Paula Martin
 Received By: [Signature]
 Cooler ID(s): _____

Date/Time: 4-12-21 18:00
 Date/Time: 4/14/21 9:45
 Temperature(s): Amb



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS TX Workorder No: 2104279
 Project Manager: JME Initials: kmo Date: 4/14/21

		N/A	YES	NO
1.	Are airbills / shipping documents present and/or removable? Tracking number:		X	
2.	Are custody seals on shipping containers intact?	X		
3.	Are custody seals on sample containers intact?	X		
4.	Is there a COC (chain-of-custody) present?		X	
5.	Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		X	
6.	Are short-hold samples present?			X
7.	Are all samples within holding times for the requested analyses?		X	
8.	Were all sample containers received intact? (not broken or leaking)		X	
9.	Is there sufficient sample for the requested analyses?		X	
10.	Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)		X	
11.	Are all aqueous samples preserved correctly, if required? (excluding volatiles)		X	
12.	Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	X		
13.	Were the samples shipped on ice?	X		X
14.	Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*:	#5	RAD ONLY
Cooler #: <u>1</u> Temperature (°C): <u>amb</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>11</u> Background µR/hr reading: <u>11</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES				

* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Were unpreserved bottles pH checked? N/A All client bottle ID's vs ALS lab ID's double-checked by: ko

If applicable, was the client contacted? **NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: *Jolie Ellison* 4/19/21

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-40
 Legal Location:
 Collection Date: 4/9/2021 11:15

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-1
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.42 (+/- 0.23)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Carr: BARIUM	100			0.2 pCi/l	NA	5/5/2021 10:56
				40-110 %REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	2.64 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	2.22 (+/- 0.69)			0.8 pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	98.6			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-41
Legal Location:
Collection Date: 4/9/2021 09:35

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.1)	U	0.19	pCi/l	NA	5/5/2021 10:56
Carr: BARIUM	94.1		40-110	%REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.04 (+/- 0)		0.78	pCi/l	NA	5/13/2021 08:45
Ra-228	1.04 (+/- 0.47)		0.78	pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	95.5		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-62
Legal Location:
Collection Date: 4/9/2021 12:55

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Ra-226	ND (+/- 0.17)	Y1,U	0.23	pCi/l	NA	5/5/2021 10:56
Carr: BARIUM	100	Y1	40-110	%REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
COMBINED RADIUM (226+228)	1.53 (+/- 0)		0.84	pCi/l	NA	5/13/2021 08:45
Ra-228	1.53 (+/- 0.57)		0.84	pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	96.4		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-63
 Legal Location:
 Collection Date: 4/9/2021 08:30

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-4
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.12)	U	0.16	pCi/l	NA	5/5/2021 10:56
Carr: BARIUM	98		40-110	%REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	0.87 (+/- 0)		0.81	pCi/l	NA	5/13/2021 08:45
Ra-228	0.87 (+/- 0.45)		0.81	pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	97.6		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-64
Legal Location:
Collection Date: 4/9/2021 10:25

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-5
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.46 (+/- 0.24)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	95			0.2 pCi/l	NA	5/5/2021 10:56
				40-110 %REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.98 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.52 (+/- 0.54)			0.75 pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	98.1			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-23R
 Legal Location:
 Collection Date: 4/9/2021 12:45

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-6
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.67 (+/- 0.33)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Carr: BARIUM	94.7		0.2	pCi/l	NA	5/5/2021 10:56
			40-110	%REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.9 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.23 (+/- 0.5)		0.77	pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	98		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-28D
 Legal Location:
 Collection Date: 4/9/2021 11:15

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-7
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.51 (+/- 0.29)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	97.8			0.22 pCi/l	NA	5/5/2021 10:56
				40-110 %REC	DL = NA	5/5/2021 10:56
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.79 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.28 (+/- 0.5)			0.77 pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	96.8			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-42
Legal Location:
Collection Date: 4/9/2021 11:45

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-8
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.14)	U	0.23	pCi/l	NA	5/5/2021 11:23
<i>Carr: BARIUM</i>	99.8		40-110	%REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.35 (+/- 0)		0.69	pCi/l	NA	5/13/2021 08:45
Ra-228	1.35 (+/- 0.49)		0.69	pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	97.7		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-43
Legal Location:
Collection Date: 4/9/2021 12:40

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-9
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.32 (+/- 0.18)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	96.6			0.14 pCi/l	NA	5/5/2021 11:23
				40-110 %REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.97 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.65 (+/- 0.57)			0.77 pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	97.4			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-44
Legal Location:
Collection Date: 4/9/2021 09:05

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-10
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.17)	U	0.22	pCi/l	NA	5/5/2021 11:23
<i>Carr: BARIUM</i>	93.9		40-110	%REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.73	pCi/l	NA	5/13/2021 08:45
Ra-228	ND (+/- 0.4)	U	0.73	pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	96.2		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-46R
Legal Location:
Collection Date: 4/9/2021 08:15

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-11
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.31 (+/- 0.18)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	97.4			0.14 pCi/l	NA	5/5/2021 11:23
				40-110 %REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	ND (+/- 0)	U	SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	ND (+/- 0.4)	U		0.83 pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	98			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-47
Legal Location:
Collection Date: 4/9/2021 11:50

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-12
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.18)	U	0.27	pCi/l	NA	5/5/2021 11:23
<i>Carr: BARIUM</i>	93.6		40-110	%REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.14 (+/- 0)		0.72	pCi/l	NA	5/13/2021 08:45
Ra-228	1.14 (+/- 0.46)		0.72	pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	97.7		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-48
 Legal Location:
 Collection Date: 4/9/2021 11:00

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-13
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.15 (+/- 0.13)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Carr: BARIUM	91.4		0.14 pCi/l		NA	5/5/2021 11:23
			40-110 %REC		DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.47 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.32 (+/- 0.5)		0.73 pCi/l		NA	5/13/2021 08:45
Carr: BARIUM	98.2		40-110 %REC		DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-50
 Legal Location:
 Collection Date: 4/9/2021 12:40

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-14
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.32 (+/- 0.19)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Carr: BARIUM	97.4		0.16 pCi/l		NA	5/5/2021 11:23
			40-110 %REC		DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.44 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.12 (+/- 0.47)		0.74 pCi/l		NA	5/13/2021 08:45
Carr: BARIUM	96.9		40-110 %REC		DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-52
Legal Location:
Collection Date: 4/9/2021 12:55

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-15
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.15)	U	0.22	pCi/l	NA	5/5/2021 11:23
<i>Carr: BARIUM</i>	97.3		40-110	%REC	DL = NA	5/5/2021 11:23
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.38 (+/- 0)		0.74	pCi/l	NA	5/13/2021 08:45
Ra-228	1.38 (+/- 0.51)		0.74	pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	96.7		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-54
 Legal Location:
 Collection Date: 4/9/2021 08:15

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-16
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.37 (+/- 0.23)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Carr: BARIUM	94.6		0.2	pCi/l	NA	5/5/2021 11:49
			40-110	%REC	DL = NA	5/5/2021 11:49
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.46 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	1.09 (+/- 0.47)		0.77	pCi/l	NA	5/13/2021 08:45
Carr: BARIUM	98		40-110	%REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-55R
Legal Location:
Collection Date: 4/9/2021 09:10

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-17
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	0.4 (+/- 0.24)		SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
<i>Carr: BARIUM</i>	94.6			0.2 pCi/l	NA	4/30/2021 11:14
				40-110 %REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.37 (+/- 0)		SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
Ra-228	0.97 (+/- 0.45)			0.76 pCi/l	NA	5/13/2021 08:45
<i>Carr: BARIUM</i>	95.3			40-110 %REC	DL = NA	5/13/2021 08:45

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-58
 Legal Location:
 Collection Date: 4/9/2021 10:05

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-18
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.17)	U	0.22	pCi/l	NA	4/30/2021 11:14
Carr: BARIUM	94.5		40-110	%REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	1.39 (+/- 0)		0.72	pCi/l	NA	5/13/2021 11:22
Ra-228	1.39 (+/- 0.51)		0.72	pCi/l	NA	5/13/2021 11:22
Carr: BARIUM	95.6		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
 Project: HS21040494
 Sample ID: MW-65
 Legal Location:
 Collection Date: 4/9/2021 10:10

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-19
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.22)	U	SOP 783	0.3 pCi/l	NA	Prep Date: 4/17/2021 PrepBy: TRB 4/30/2021 11:14
Carr: BARIUM	91.6			40-110 %REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	1.36 (+/- 0)		SOP 724	0.76 pCi/l	NA	Prep Date: 5/10/2021 PrepBy: JXH 5/13/2021 11:22
Ra-228	1.36 (+/- 0.52)			0.76 pCi/l	NA	5/13/2021 11:22
Carr: BARIUM	93.3			40-110 %REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-36
Legal Location:
Collection Date: 4/9/2021 10:45

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-20
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.19)	U	0.34	pCi/l	NA	4/30/2021 11:14
<i>Carr: BARIUM</i>	92.3		40-110	%REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.74	pCi/l	NA	5/13/2021 11:22
Ra-228	ND (+/- 0.37)	U	0.74	pCi/l	NA	5/13/2021 11:22
<i>Carr: BARIUM</i>	95.3		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-37
Legal Location:
Collection Date: 4/9/2021 08:55

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-21
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.19)	U	0.34	pCi/l	NA	4/30/2021 11:14
<i>Carr: BARIUM</i>	93.6		40-110	%REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	0.75 (+/- 0)		0.74	pCi/l	NA	5/13/2021 11:22
Ra-228	0.75 (+/- 0.41)		0.74	pCi/l	NA	5/13/2021 11:22
<i>Carr: BARIUM</i>	96.3		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-38R
Legal Location:
Collection Date: 4/9/2021 08:10

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-22
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Ra-226	ND (+/- 0.26)	U	0.57	pCi/l	NA	4/30/2021 11:14
<i>Carr: BARIUM</i>	96		40-110	%REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.79	pCi/l	NA	5/13/2021 11:22
Ra-228	ND (+/- 0.37)	U	0.79	pCi/l	NA	5/13/2021 11:22
<i>Carr: BARIUM</i>	94.7		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-60
Legal Location:
Collection Date: 4/9/2021 11:55

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-23
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.25)	U	0.41	pCi/l	NA	4/30/2021 11:14
Carr: BARIUM	92.2		40-110	%REC	DL = NA	4/30/2021 11:14
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)						
	0.88 (+/- 0)		0.78	pCi/l	NA	5/13/2021 11:22
Ra-228	0.88 (+/- 0.44)		0.78	pCi/l	NA	5/13/2021 11:22
Carr: BARIUM	92		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: MW-61
Legal Location:
Collection Date: 4/9/2021 09:40

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-24
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.13)	U	SOP 783	0.2 pCi/l	NA	Prep Date: 4/17/2021 PrepBy: TRB 4/30/2021 11:35
Carr: BARIUM	92.9		40-110	%REC	DL = NA	4/30/2021 11:35
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	ND (+/- 0)	U	SOP 724	0.76 pCi/l	NA	Prep Date: 5/10/2021 PrepBy: JXH 5/13/2021 11:22
Ra-228	ND (+/- 0.41)	U	40-110	0.76 pCi/l	NA	5/13/2021 11:22
Carr: BARIUM	94.1		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: DUP-01
Legal Location:
Collection Date: 4/9/2021 12:00

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-25
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Ra-226	ND (+/- 0.18)	U	0.27	pCi/l	NA	4/30/2021 11:35
<i>Carr: BARIUM</i>	92.6		40-110	%REC	DL = NA	4/30/2021 11:35
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.75	pCi/l	NA	5/13/2021 11:22
Ra-228	ND (+/- 0.37)	U	0.75	pCi/l	NA	5/13/2021 11:22
<i>Carr: BARIUM</i>	95.6		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: DUP-02
Legal Location:
Collection Date: 4/9/2021 10:00

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-26
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
Ra-226	ND (+/- 0.18)	U	0.23	pCi/l	NA	4/30/2021 12:04
<i>Carr: BARIUM</i>	87.5		40-110	%REC	DL = NA	4/30/2021 12:04
Radium-228 Analysis by GFPC						
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.78	pCi/l	NA	5/13/2021 11:22
Ra-228	ND (+/- 0.4)	U	0.78	pCi/l	NA	5/13/2021 11:22
<i>Carr: BARIUM</i>	94.3		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
 Project: HS21040494
 Sample ID: FB-01
 Legal Location:
 Collection Date: 4/9/2021 10:05

Date: 14-May-21
 Work Order: 2104279
 Lab ID: 2104279-27
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Radium-226 by Radon Emanation - Method 903.1						
			SOP 783		Prep Date: 4/17/2021	PrepBy: TRB
Ra-226	ND (+/- 0.11)	U	0.24	pCi/l	NA	4/30/2021 12:04
Carr: BARIUM	88.6		40-110	%REC	DL = NA	4/30/2021 12:04
Radium-228 Analysis by GFPC						
			SOP 724		Prep Date: 5/10/2021	PrepBy: JXH
COMBINED RADIUM (226+228)	ND (+/- 0)	U	0.78	pCi/l	NA	5/13/2021 11:22
Ra-228	ND (+/- 0.34)	U	0.78	pCi/l	NA	5/13/2021 11:22
Carr: BARIUM	96.2		40-110	%REC	DL = NA	5/13/2021 11:22

Client: ALS Environmental
Project: HS21040494
Sample ID: FB-01
Legal Location:
Collection Date: 4/9/2021 10:05

Date: 14-May-21
Work Order: 2104279
Lab ID: 2104279-27
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
- U or ND - Result is less than the sample specific MDC.
- Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
- Y2 - Chemical Yield outside default limits.
- W - DER is greater than Warning Limit of 1.42
- * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G - Sample density differs by more than 15% of LCS density.
- D - DER is greater than Control Limit
- M - Requested MDC not met.
- M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
- L - LCS Recovery below lower control limit.
- H - LCS Recovery above upper control limit.
- P - LCS, Matrix Spike Recovery within control limits.
- N - Matrix Spike Recovery outside control limits
- NC - Not Calculated for duplicate results less than 5 times MDC
- B - Analyte concentration greater than MDC.
- B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

- B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
- U or ND - Indicates that the compound was analyzed for but not detected.
- E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
- M - Duplicate injection precision was not met.
- N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * - Duplicate analysis (relative percent difference) not within control limits.
- S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

- U or ND - Indicates that the compound was analyzed for but not detected.
- B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E - Analyte concentration exceeds the upper level of the calibration range.
- J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A - A tentatively identified compound is a suspected aldol-condensation product.
- X - The analyte was diluted below an accurate quantitation level.
- * - The spike recovery is equal to or outside the control criteria used.
- + - The relative percent difference (RPD) equals or exceeds the control criteria.
- G - A pattern resembling gasoline was detected in this sample.
- D - A pattern resembling diesel was detected in this sample.
- M - A pattern resembling motor oil was detected in this sample.
- C - A pattern resembling crude oil was detected in this sample.
- 4 - A pattern resembling JP-4 was detected in this sample.
- 5 - A pattern resembling JP-5 was detected in this sample.
- H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 5/14/2021 11:31:

Client: ALS Environmental
 Work Order: 2104279
 Project: HS21040494

QC BATCH REPORT

Batch ID: RE210417-7-1 Instrument ID: Alpha Scin Method: Radium-226 by Radon Emanation

DUP Sample ID: 2104279-4 Units: pCi/l Analysis Date: 5/5/2021 10:56
 Client ID: MW-63 Run ID: RE210417-7A Prep Date: 4/17/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.23						0.11	0.03	2.13	U
Carr: BARIUM	16110		16540		97.4	40-110		16200			

LCS Sample ID: RE210417-7 Units: pCi/l Analysis Date: 5/5/2021 11:49
 Client ID: Run ID: RE210417-7A Prep Date: 4/17/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	51 (+/- 13)	0	46.79		108	67-120					P
Carr: BARIUM	15560		16460		94.5	40-110					

LCSD Sample ID: RE210417-7 Units: pCi/l Analysis Date: 5/5/2021 11:49
 Client ID: Run ID: RE210417-7A Prep Date: 4/17/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	46 (+/- 11)	0	46.79		97.4	67-120		51	0.30	2.13	P,Y1
Carr: BARIUM	16690		16470		101	40-110		15560			Y1

MB Sample ID: RE210417-7 Units: pCi/l Analysis Date: 5/5/2021 11:49
 Client ID: Run ID: RE210417-7A Prep Date: 4/17/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.126									U
Carr: BARIUM	16130		16460		98	40-110					

The following samples were analyzed in this batch:

2104279-1	2104279-2	2104279-3
2104279-4	2104279-5	2104279-6
2104279-7	2104279-8	2104279-9
2104279-10	2104279-11	2104279-12
2104279-13	2104279-14	2104279-15
2104279-16		

Client: ALS Environmental
 Work Order: 2104279
 Project: HS21040494

QC BATCH REPORT

Batch ID: **RE210417-8-3** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

DUP		Sample ID: 2104279-18		Units: pCi/l			Analysis Date: 4/30/2021 11:14				
Client ID: MW-58		Run ID: RE210417-8A			Prep Date: 4/17/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	0.29 (+/- 0.21)	0.23						0.19	0.36	2.13	
Carr: BARIUM	15200		16220		93.7	40-110		15330			

LCS		Sample ID: RE210417-8		Units: pCi/l			Analysis Date: 4/30/2021 12:04				
Client ID:		Run ID: RE210417-8A			Prep Date: 4/17/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	42 (+/- 10)	0	46.79		88.9	67-120					P
Carr: BARIUM	15670		16020		97.8	40-110					

LCSD		Sample ID: RE210417-8		Units: pCi/l			Analysis Date: 4/30/2021 12:04				
Client ID:		Run ID: RE210417-8A			Prep Date: 4/17/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	46 (+/- 11)	0	46.79		98.3	67-120		42	0.29	2.13	P
Carr: BARIUM	15760		16020		98.4	40-110		15670			

MB		Sample ID: RE210417-8		Units: pCi/l			Analysis Date: 4/30/2021 11:35				
Client ID:		Run ID: RE210417-8A			Prep Date: 4/17/2021			DF: NA			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Ra-226	ND	0.142									U
Carr: BARIUM	15350		16020		95.8	40-110					

The following samples were analyzed in this batch:

2104279-17	2104279-18	2104279-19
2104279-20	2104279-21	2104279-22
2104279-23	2104279-24	2104279-25
2104279-26	2104279-27	

Client: ALS Environmental
 Work Order: 2104279
 Project: HS21040494

QC BATCH REPORT

Batch ID: RA210510-1-1 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

DUP Sample ID: 2104279-4 Units: ug Analysis Date: 5/13/2021 08:45
 Client ID: MW-63 Run ID: RA210510-1A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	31180		32020		97.4	40-110		31270			
COMBINED RADIUM (226+228)	ND	0.85						0.87			U
Ra-228	ND	0.85						0.87	0.37	2.13	U

LCS Sample ID: RA210510-1 Units: ug Analysis Date: 5/13/2021 08:45
 Client ID: Run ID: RA210510-1A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	32050		31950		100	40-110					Y1
Ra-228	22.6 (+/- 5.3)	0.7	21.99		103	70-130					P,Y1

MB Sample ID: RA210510-1 Units: ug Analysis Date: 5/13/2021 08:45
 Client ID: Run ID: RA210510-1A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	31740		31960		99.3	40-110					
Ra-228	ND	0.72									U

The following samples were analyzed in this batch:

2104279-1	2104279-2	2104279-3
2104279-4	2104279-5	2104279-6
2104279-7	2104279-8	2104279-9
2104279-10	2104279-11	2104279-12
2104279-13	2104279-14	2104279-15
2104279-16	2104279-17	

Client: ALS Environmental
 Work Order: 2104279
 Project: HS21040494

QC BATCH REPORT

Batch ID: RA210510-2-3 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

DUP Sample ID: 2104279-18 Units: ug Analysis Date: 5/13/2021 11:22
 Client ID: MW-58 Run ID: RA210510-2A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	29980		31940		93.9	40-110		30540			
COMBINED RADIUM (226+228)	1.97 (+/- 0)	0.74						1.39			
Ra-228	1.68 (+/- 0.57)	0.74						1.39	0.38	2.13	

LCS Sample ID: RA210510-2 Units: ug Analysis Date: 5/13/2021 11:22
 Client ID: Run ID: RA210510-2A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	30680		31740		96.7	40-110					
Ra-228	27 (+/- 6.3)	0.8	21.99		123	70-130					P

MB Sample ID: RA210510-2 Units: ug Analysis Date: 5/13/2021 11:22
 Client ID: Run ID: RA210510-2A Prep Date: 5/10/2021 DF: NA

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	DER Ref Value	DER	DER Limit	Qual
Carr: BARIUM	30820		31730		97.1	40-110					
Ra-228	ND	0.8									U

The following samples were analyzed in this batch:

2104279-18	2104279-19	2104279-20
2104279-21	2104279-22	2104279-23
2104279-24	2104279-25	2104279-26
2104279-27		



20-Apr-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21040494**

Work Order: **21041332**

Dear Corey,

ALS Environmental received 27 samples on 14-Apr-2021 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a faint, light-colored signature line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: ALS Environmental
Project: HS21040494
Work Order: 21041332

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_210416B, 210419A, 210419B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21041331, 21041332					
Analyst Name: QN		Date 4/16/21	Reviewer Name: JB		Date: 4/16/21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < 1/2 MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER #¹	DESCRIPTION		
1	No exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: ALS Environmental
 Project: HS21040494
 Work Order: 21041332

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041332-01	HS21040494-01	Groundwater	MW-40	4/9/2021 11:15	4/14/2021 10:00	<input type="checkbox"/>
21041332-02	HS21040494-02	Groundwater	MW-41	4/9/2021 09:35	4/14/2021 10:00	<input type="checkbox"/>
21041332-03	HS21040494-03	Groundwater	MW-62	4/9/2021 12:55	4/14/2021 10:00	<input type="checkbox"/>
21041332-04	HS21040494-04	Groundwater	MW-63	4/9/2021 08:30	4/14/2021 10:00	<input type="checkbox"/>
21041332-05	HS21040494-05	Groundwater	MW-64	4/9/2021 10:25	4/14/2021 10:00	<input type="checkbox"/>
21041332-06	HS21040494-06	Groundwater	MW-23R	4/9/2021 12:45	4/14/2021 10:00	<input type="checkbox"/>
21041332-07	HS21040494-07	Groundwater	MW-28D	4/9/2021 11:15	4/14/2021 10:00	<input type="checkbox"/>
21041332-08	HS21040494-08	Groundwater	MW-42	4/9/2021 11:45	4/14/2021 10:00	<input type="checkbox"/>
21041332-09	HS21040494-09	Groundwater	MW-43	4/9/2021 12:40	4/14/2021 10:00	<input type="checkbox"/>
21041332-10	HS21040494-10	Groundwater	MW-44	4/9/2021 09:05	4/14/2021 10:00	<input type="checkbox"/>
21041332-11	HS21040494-11	Groundwater	MW-46R	4/9/2021 08:15	4/14/2021 10:00	<input type="checkbox"/>
21041332-12	HS21040494-12	Groundwater	MW-47	4/9/2021 11:50	4/14/2021 10:00	<input type="checkbox"/>
21041332-13	HS21040494-13	Groundwater	MW-48	4/9/2021 11:00	4/14/2021 10:00	<input type="checkbox"/>
21041332-14	HS21040494-14	Groundwater	MW-50	4/9/2021 12:40	4/14/2021 10:00	<input type="checkbox"/>
21041332-15	HS21040494-15	Groundwater	MW-52	4/9/2021 12:55	4/14/2021 10:00	<input type="checkbox"/>
21041332-16	HS21040494-16	Groundwater	MW-54	4/9/2021 08:15	4/14/2021 10:00	<input type="checkbox"/>
21041332-17	HS21040494-17	Groundwater	MW-55R	4/9/2021 09:10	4/14/2021 10:00	<input type="checkbox"/>
21041332-18	HS21040494-18	Groundwater	MW-58	4/9/2021 10:05	4/14/2021 10:00	<input type="checkbox"/>
21041332-19	HS21040494-19	Groundwater	MW-65	4/9/2021 10:10	4/14/2021 10:00	<input type="checkbox"/>
21041332-20	HS21040494-20	Groundwater	MW-36	4/9/2021 10:45	4/14/2021 10:00	<input type="checkbox"/>
21041332-21	HS21040494-21	Groundwater	MW-37	4/9/2021 08:55	4/14/2021 10:00	<input type="checkbox"/>
21041332-22	HS21040494-22	Groundwater	MW-38R	4/9/2021 08:10	4/14/2021 10:00	<input type="checkbox"/>
21041332-23	HS21040494-23	Groundwater	MW-60	4/9/2021 11:55	4/14/2021 10:00	<input type="checkbox"/>
21041332-24	HS21040494-24	Groundwater	MW-61	4/9/2021 09:40	4/14/2021 10:00	<input type="checkbox"/>
21041332-25	HS21040494-25	Groundwater	DUP-01	4/9/2021 12:00	4/14/2021 10:00	<input type="checkbox"/>
21041332-26	HS21040494-26	Groundwater	DUP-02	4/9/2021 10:00	4/14/2021 10:00	<input type="checkbox"/>
21041332-27	HS21040494-27	Water	FB-01	4/9/2021 10:05	4/14/2021 10:00	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21040494
WorkOrder: 21041332

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21041332
 Client: ALS Environmental
 Project: HS21040494

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
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Batch ID R314231 Test Name: Fluoride

21041332-01A	HS21040494-01	Groundwater	4/9/2021 11:15:00 AM			4/16/2021 03:05 PM
21041332-02A	HS21040494-02		4/9/2021 9:35:00 AM			4/16/2021 03:05 PM
21041332-03A	HS21040494-03		4/9/2021 12:55:00 PM			4/16/2021 03:05 PM
21041332-04A	HS21040494-04		4/9/2021 8:30:00 AM			4/16/2021 03:05 PM
21041332-05A	HS21040494-05		4/9/2021 10:25:00 AM			4/16/2021 03:05 PM
21041332-06A	HS21040494-06		4/9/2021 12:45:00 PM			4/16/2021 03:05 PM

Batch ID R314366 Test Name: Fluoride

21041332-07A	HS21040494-07	Groundwater	4/9/2021 11:15:00 AM			4/19/2021 12:50 PM
21041332-08A	HS21040494-08		4/9/2021 11:45:00 AM			4/19/2021 12:50 PM
21041332-09A	HS21040494-09		4/9/2021 12:40:00 PM			4/19/2021 12:50 PM
21041332-10A	HS21040494-10		4/9/2021 9:05:00 AM			4/19/2021 12:50 PM
21041332-11A	HS21040494-11		4/9/2021 8:15:00 AM			4/19/2021 12:50 PM
21041332-12A	HS21040494-12		4/9/2021 11:50:00 AM			4/19/2021 12:50 PM
21041332-13A	HS21040494-13		4/9/2021 11:00:00 AM			4/19/2021 12:50 PM
21041332-14A	HS21040494-14		4/9/2021 12:40:00 PM			4/19/2021 12:50 PM
21041332-15A	HS21040494-15		4/9/2021 12:55:00 PM			4/19/2021 12:50 PM
21041332-16A	HS21040494-16		4/9/2021 8:15:00 AM			4/19/2021 12:50 PM

Work Order: 21041332
 Client: ALS Environmental
 Project: HS21040494

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R314367 Test Name: Fluoride						
21041332-17A	HS21040494-17	Groundwater	4/9/2021 9:10:00 AM			4/19/2021 02:51 PM
21041332-18A	HS21040494-18		4/9/2021 10:05:00 AM			4/19/2021 02:51 PM
21041332-19A	HS21040494-19		4/9/2021 10:10:00 AM			4/19/2021 02:51 PM
21041332-20A	HS21040494-20		4/9/2021 10:45:00 AM			4/19/2021 02:51 PM
21041332-21A	HS21040494-21		4/9/2021 8:55:00 AM			4/19/2021 02:51 PM
21041332-22A	HS21040494-22		4/9/2021 8:10:00 AM			4/19/2021 02:51 PM
21041332-23A	HS21040494-23		4/9/2021 11:55:00 AM			4/19/2021 02:51 PM
21041332-24A	HS21040494-24		4/9/2021 9:40:00 AM			4/19/2021 02:51 PM
21041332-25A	HS21040494-25		4/9/2021 12:00:00 PM			4/19/2021 02:51 PM
21041332-26A	HS21040494-26		4/9/2021 10:00:00 AM			4/19/2021 02:51 PM
21041332-27A	HS21040494-27	Water	4/9/2021 10:05:00 AM			4/19/2021 02:51 PM

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-01
Collection Date: 4/9/2021 11:15 AM

Work Order: 21041332
Lab ID: 21041332-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.12		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-02
Collection Date: 4/9/2021 09:35 AM

Work Order: 21041332
Lab ID: 21041332-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.32		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-03
Collection Date: 4/9/2021 12:55 PM

Work Order: 21041332
Lab ID: 21041332-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.18		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-04
Collection Date: 4/9/2021 08:30 AM

Work Order: 21041332
Lab ID: 21041332-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.13		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-05
Collection Date: 4/9/2021 10:25 AM

Work Order: 21041332
Lab ID: 21041332-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.23		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-06
Collection Date: 4/9/2021 12:45 PM

Work Order: 21041332
Lab ID: 21041332-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.39		0.058	0.10	mg/L	1	4/16/2021 15:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-07
Collection Date: 4/9/2021 11:15 AM

Work Order: 21041332
Lab ID: 21041332-07
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.34		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-08
Collection Date: 4/9/2021 11:45 AM

Work Order: 21041332
Lab ID: 21041332-08
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.58		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-09
Collection Date: 4/9/2021 12:40 PM

Work Order: 21041332
Lab ID: 21041332-09
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.57		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-10
Collection Date: 4/9/2021 09:05 AM

Work Order: 21041332
Lab ID: 21041332-10
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-11
Collection Date: 4/9/2021 08:15 AM

Work Order: 21041332
Lab ID: 21041332-11
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.37		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-12
Collection Date: 4/9/2021 11:50 AM

Work Order: 21041332
Lab ID: 21041332-12
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-13
Collection Date: 4/9/2021 11:00 AM

Work Order: 21041332
Lab ID: 21041332-13
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.70		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-14
Collection Date: 4/9/2021 12:40 PM

Work Order: 21041332
Lab ID: 21041332-14
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.45		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-15
Collection Date: 4/9/2021 12:55 PM

Work Order: 21041332
Lab ID: 21041332-15
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.51		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-16
Collection Date: 4/9/2021 08:15 AM

Work Order: 21041332
Lab ID: 21041332-16
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.49		0.058	0.10	mg/L	1	4/19/2021 12:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-17
Collection Date: 4/9/2021 09:10 AM

Work Order: 21041332
Lab ID: 21041332-17
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.75		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-18
Collection Date: 4/9/2021 10:05 AM

Work Order: 21041332
Lab ID: 21041332-18
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.43		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-19
Collection Date: 4/9/2021 10:10 AM

Work Order: 21041332
Lab ID: 21041332-19
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.38		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-20
Collection Date: 4/9/2021 10:45 AM

Work Order: 21041332
Lab ID: 21041332-20
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.40		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-21
Collection Date: 4/9/2021 08:55 AM

Work Order: 21041332
Lab ID: 21041332-21
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.26		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-22
Collection Date: 4/9/2021 08:10 AM

Work Order: 21041332
Lab ID: 21041332-22
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.25		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-23
Collection Date: 4/9/2021 11:55 AM

Work Order: 21041332
Lab ID: 21041332-23
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.16		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-24
Collection Date: 4/9/2021 09:40 AM

Work Order: 21041332
Lab ID: 21041332-24
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.30		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-25
Collection Date: 4/9/2021 12:00 PM

Work Order: 21041332
Lab ID: 21041332-25
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.38		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-26
Collection Date: 4/9/2021 10:00 AM

Work Order: 21041332
Lab ID: 21041332-26
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	0.42		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 20-Apr-21

Client: ALS Environmental
Project: HS21040494
Sample ID: HS21040494-27
Collection Date: 4/9/2021 10:05 AM

Work Order: 21041332
Lab ID: 21041332-27
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: QTN
Fluoride	U		0.058	0.10	mg/L	1	4/19/2021 14:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21041332
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A	Fluoride	16984-48-8	0.080	0.090	0.058	0.10

Client: ALS Environmental
 Work Order: 21041332
 Project: HS21040494

QC BATCH REPORT

Batch ID: **R314231** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314231-R314231				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312064		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R314231-R314231				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312065		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0	103	80-120	0			

MS		Sample ID: 21041331-04AMS				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312084		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.12	0.10	5	0.13	99.8	75-125	0			

MS		Sample ID: 21041332-04AMS				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID: HS21040494-04		Run ID: TITRATOR 1_210416B				SeqNo: 7312092		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.12	0.10	5	0.13	99.8	75-125	0			

MSD		Sample ID: 21041331-04AMSD				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID:		Run ID: TITRATOR 1_210416B				SeqNo: 7312085		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0.13	100	75-125	5.12	0.39	20	

MSD		Sample ID: 21041332-04AMSD				Units: mg/L		Analysis Date: 4/16/2021 03:05 PM		
Client ID: HS21040494-04		Run ID: TITRATOR 1_210416B				SeqNo: 7312093		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.14	0.10	5	0.13	100	75-125	5.12	0.39	20	

The following samples were analyzed in this batch:

21041332-01A	21041332-02A	21041332-03A
21041332-04A	21041332-05A	21041332-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21041332
 Project: HS21040494

QC BATCH REPORT

Batch ID: **R314366** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314366-R314366				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316814		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride U 0.10

LCS		Sample ID: LCS-R314366-R314366				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316815		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.05 0.10 5 0 101 80-120 0

MS		Sample ID: 21040897-01G MS				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316817		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.19 0.10 5 0.07 102 75-125 0

MSD		Sample ID: 21040897-01G MSD				Units: mg/L		Analysis Date: 4/19/2021 12:50 PM			
Client ID:		Run ID: TITRATOR 1_210419A				SeqNo: 7316818		Prep Date:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Fluoride 5.22 0.10 5 0.07 103 75-125 5.19 0.576 20

The following samples were analyzed in this batch:

21041332-07A	21041332-08A	21041332-09A
21041332-10A	21041332-11A	21041332-12A
21041332-13A	21041332-14A	21041332-15A
21041332-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
 Work Order: 21041332
 Project: HS21040494

QC BATCH REPORT

Batch ID: **R314367** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R314367-R314367				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316848		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R314367-R314367				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316849		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.02	0.10	5	0	100	80-120	0			

MS		Sample ID: 21041331-18AMS				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316860		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	0			

MS		Sample ID: 21041332-18AMS				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID: HS21040494-18		Run ID: TITRATOR 1_210419B				SeqNo: 7316873		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	0			

MSD		Sample ID: 21041331-18AMSD				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID:		Run ID: TITRATOR 1_210419B				SeqNo: 7316861		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	5.17	0	20	

MSD		Sample ID: 21041332-18AMSD				Units: mg/L		Analysis Date: 4/19/2021 02:51 PM		
Client ID: HS21040494-18		Run ID: TITRATOR 1_210419B				SeqNo: 7316874		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.17	0.10	5	0.43	94.8	75-125	5.17	0	20	

The following samples were analyzed in this batch:

21041332-17A	21041332-18A	21041332-19A
21041332-20A	21041332-21A	21041332-22A
21041332-23A	21041332-24A	21041332-25A
21041332-26A	21041332-27A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

21041332



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15914

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21040494
TSR: Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21040494-01	MW-40	Groundwater	09 Apr 2021 11:15
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
2.	HS21040494-02	MW-41	Groundwater	09 Apr 2021 09:35
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
3.	HS21040494-03	MW-62	Groundwater	09 Apr 2021 12:55
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
4.	HS21040494-04	MW-63	Groundwater	09 Apr 2021 08:30
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
5.	HS21040494-05	MW-64	Groundwater	09 Apr 2021 10:25
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
6.	HS21040494-06	MW-23R	Groundwater	09 Apr 2021 12:45
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
7.	HS21040494-07	MW-28D	Groundwater	09 Apr 2021 11:15
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
8.	HS21040494-08	MW-42	Groundwater	09 Apr 2021 11:45
	Fluoride by ISE 4500. Equis EDD			16 Apr 2021
9.	HS21040494-09	MW-43	Groundwater	09 Apr 2021 12:40

RIGHT SOLUTIONS | RIGHT PARTNER

09 Apr 2021

Page 1 of 3

Please ignore sampling times on labels
COC times are correct



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15914

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
10.	HS21040494-10 MW-44	Groundwater	09 Apr 2021 09:05
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
11.	HS21040494-11 MW-46R	Groundwater	09 Apr 2021 08:15
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
12.	HS21040494-12 MW-47	Groundwater	09 Apr 2021 11:50
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
13.	HS21040494-13 MW-48	Groundwater	09 Apr 2021 11:00
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
14.	HS21040494-14 MW-50	Groundwater	09 Apr 2021 12:40
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
15.	HS21040494-15 MW-52	Groundwater	09 Apr 2021 12:55
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
16.	HS21040494-16 MW-54	Groundwater	09 Apr 2021 08:15
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
17.	HS21040494-17 MW-55R	Groundwater	09 Apr 2021 09:10
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
18.	HS21040494-18 MW-58	Groundwater	09 Apr 2021 10:05
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
19.	HS21040494-19 MW-65	Groundwater	09 Apr 2021 10:10
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
20.	HS21040494-20 MW-36	Groundwater	09 Apr 2021 10:45
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
21.	HS21040494-21 MW-37	Groundwater	09 Apr 2021 08:55
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
22.	HS21040494-22 MW-38R	Groundwater	09 Apr 2021 08:10
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
23.	HS21040494-23 MW-60	Groundwater	09 Apr 2021 11:55
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021
24.	HS21040494-24 MW-61	Groundwater	09 Apr 2021 09:40
	Fluoride by ISE 4500. Equis EDD		16 Apr 2021



Subcontract Chain of Custody

SAMPLING STATE: Texas

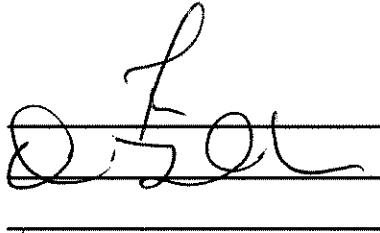
COC ID: 15914

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
25. HS21040494-25	DUP-01	Groundwater	09 Apr 2021 12:00
Fluoride by ISE 4500. Equis EDD			16 Apr 2021
26. HS21040494-26	DUP-02	Groundwater	09 Apr 2021 10:00
Fluoride by ISE 4500. Equis EDD			16 Apr 2021
27. HS21040494-27	FB-01	Water	09 Apr 2021 10:05
Fluoride by ISE 4500. Equis EDD			16 Apr 2021

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 Batch client samples together.
 HS21040494-04 & HS21040494-18 = MS/MSD
 Import Data fro HS21040493

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By:



Date/Time:

4/12/2021 1800

Received By:



Date/Time:

4/14/21 1000

Cooler ID(s):

Temperature(s):

1R3 LIC
pH20

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **14-Apr-21 10:00**

Work Order: **21041332**

Received by: **DS**

Checklist completed by Diane Shaw 16-Apr-21
eSignature Date

Reviewed by: Chad Whelton 16-Apr-21
eSignature Date

Matrices: Groundwater

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 1.1/2.1 c IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 4/16/2021 8:10:11 AM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix C

Detection Monitoring Data (October 2021)



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 27, 2021

Lori Burris
TRC Corporation
14701 St. Mary's Lane
Suite 500
Houston, TX 77079

Work Order: **HS21100945**

Laboratory Results for: **NRG WA Parish - Appendix III**

Dear Lori Burris,

ALS Environmental received 28 sample(s) on Oct 15, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group		LRC Date: 10/27/2021					
Project Name: NRG WA Parish - Appendix III		Laboratory Job Number: HS21100945					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 171585,171586,R394012,R39402,R394031,R394293,R394307					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				2
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group		LRC Date: 10/27/2021					
Project Name: NRG WA Parish - Appendix III		Laboratory Job Number: HS21100945					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 171585,171586,R394012,R39402,R394031,R394293,R394307					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		X			4
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				
Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).							

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 10/27/2021
Project Name: NRG WA Parish - Appendix III	Laboratory Job Number: HS21100945
Reviewer Name: Corey Grandits	Prep Batch Number(s): 171585,171586,R394012,R39402,R394031,R394293,R394307

ER# ⁵	Description
1	<p>Batch 171585, Metals Method SW6020, sample MW-58, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 171585, Metals Method SW6020, sample MW-63, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch 171586, Metals Method SW6020, sample HS21100957-02, MS and MSD were performed on unrelated sample.</p> <p>Batch R394293, Anions Method E300, samples MW-58 and MW-63, MS and MSD recovered outside the control limit for Chloride and Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R394307, Anions Method E300, sample HS21101447-01, MS and MSD were performed on unrelated sample.</p> <p>Batch R394307, Anions Method E300, sample MW-60, MS and MSD recovered outside the control limit for Chloride and Sulfate, however, the result in the parent sample is greater than 4x the spike amount.</p>
2	The analysis for fluoride was subcontracted to ALS Holland, MI. Final report and Laboratory Review Checklist attached.
3	See Run Log and CCB Exceptions Report.
4	Batch 171585, Metals Method SW6020, sample MW-63, The percent difference between the results of the sample and the serial dilution were greater than 10% for Boron.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945
Start Date: 21-Oct-2021 **End Date:** 22-Oct-2021

Run ID: ICPMS06_393911
Instrument: ICPMS06
Method: SW6020A

Sample No.	D/F	Time	FileID	Analyses
ICB	1	21-Oct-2021 11:36	019_ICB.d	B CA
LLICV2	1	21-Oct-2021 11:38	020LCV2.d	B CA
LLICV5	1	21-Oct-2021 11:40	021LCV5.d	B CA
ICV	1	21-Oct-2021 12:05	023_ICV.d	B CA
ICSA	1	21-Oct-2021 12:07	024ICSA.d	B CA
ICSAB	1	21-Oct-2021 12:09	025ICSB.d	B CA
CCB 1	1	21-Oct-2021 12:22	028_CCB.d	B CA
CCV 1	1	21-Oct-2021 12:25	029_CCV.d	B CA
CCV 2	1	21-Oct-2021 12:48	040_CCV.d	B CA
CCB 2	1	21-Oct-2021 12:50	041_CCB.d	B CA
CCV 3	1	21-Oct-2021 13:14	052_CCV.d	B CA
CCB 3	1	21-Oct-2021 13:16	053_CCB.d	B CA
CCV 4	1	21-Oct-2021 14:20	063_CCV.d	B CA
CCB 4	1	21-Oct-2021 14:22	064_CCB.d	B CA
CCV 5	1	21-Oct-2021 15:02	075_CCV.d	B CA
CCB 5	1	21-Oct-2021 15:04	076_CCB.d	B CA
CCV 6	1	21-Oct-2021 15:30	087_CCV.d	B CA
CCB 6	1	21-Oct-2021 15:32	088_CCB.d	B CA
CCV 7	1	21-Oct-2021 16:05	099_CCV.d	B CA
CCB 7	1	21-Oct-2021 16:07	100_CCB.d	B CA
CCV 8	1	21-Oct-2021 16:34	111_CCV.d	B CA
CCB 8	1	21-Oct-2021 16:36	112_CCB.d	B CA
CCV 9	1	21-Oct-2021 16:59	123_CCV.d	B CA
CCB 9	1	21-Oct-2021 17:01	124_CCB.d	B CA
CCB 10	1	21-Oct-2021 17:25	136_CCB.d	B CA
CCV 10	1	21-Oct-2021 17:45	138_CCV.d	B CA
CCV 11	1	21-Oct-2021 18:07	149_CCV.d	B CA
CCB 11	1	21-Oct-2021 18:09	150_CCB.d	B CA
CCV 12	1	21-Oct-2021 18:18	155_CCV.d	B CA
CCB 12	1	21-Oct-2021 18:20	156_CCB.d	B CA
CCB 13	1	21-Oct-2021 19:15	165_CCB.d	B CA
CCV 13	1	21-Oct-2021 19:33	174_CCV.d	B CA
CCB 14	1	21-Oct-2021 19:35	175_CCB.d	B CA
CCB 15	1	21-Oct-2021 19:59	187_CCB.d	B CA
CCV 14	1	21-Oct-2021 20:03	189_CCV.d	B CA
CCV 15	1	21-Oct-2021 20:18	197_CCV.d	B CA
CCB 16	1	21-Oct-2021 20:20	198_CCB.d	B CA
LCS-171586	1	21-Oct-2021 20:24	200SMPL.d	B CA
MBLK-171586	1	21-Oct-2021 20:26	201SMPL.d	B CA
ZZZZZSD	5	21-Oct-2021 20:30	203SMPL.d	
ZZZZZMS	1	21-Oct-2021 20:33	204SMPL.d	B CA
ZZZZZMSD	1	21-Oct-2021 20:35	205SMPL.d	B CA
ZZZZZPDS	1	21-Oct-2021 20:37	206SMPL.d	
CCB 17	1	21-Oct-2021 20:41	208_CCB.d	B CA
CCV 16	1	21-Oct-2021 20:52	210_CCV.d	B CA
CCV 17	1	21-Oct-2021 21:12	219_CCV.d	B CA
CCB 18	1	21-Oct-2021 21:14	220_CCB.d	B CA
MW-36	1	21-Oct-2021 21:16	221SMPL.d	B
MW-37	1	21-Oct-2021 21:18	222SMPL.d	B
MW-38R	1	21-Oct-2021 21:20	223SMPL.d	B

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FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945
Start Date: 21-Oct-2021

End Date: 22-Oct-2021

Run ID: ICPMS06_393911
Instrument: ICPMS06
Method: SW6020A

Sample No.	D/F	Time	FileID	Analyses
MW-60	1	21-Oct-2021 21:22	224SMPL.d	B
DUP-01	1	21-Oct-2021 21:26	226SMPL.d	B
DUP-02	1	21-Oct-2021 21:28	227SMPL.d	B CA
FB-01	1	21-Oct-2021 21:30	228SMPL.d	B CA
CCV 18	1	21-Oct-2021 21:34	230_CCV.d	B CA
CCB 19	1	21-Oct-2021 21:36	231_CCB.d	B CA
CCV 19	1	21-Oct-2021 21:57	241_CCV.d	B CA
CCB 20	1	21-Oct-2021 21:59	242_CCB.d	B CA
ICCV 20	1	21-Oct-2021 22:36	256_ICV.d	B CA
LLICCV5	1	21-Oct-2021 22:38	257LCV5.d	B CA
LLICCV2	1	21-Oct-2021 22:40	258LCV2.d	B CA
ICCB 21	1	21-Oct-2021 22:42	259_ICB.d	B CA
CCV 21	1	21-Oct-2021 22:46	261_CCV.d	B CA
CCB 22	1	21-Oct-2021 22:48	262_CCB.d	B CA
CCV 22	1	21-Oct-2021 23:08	272_CCV.d	B CA
CCB 23	1	21-Oct-2021 23:10	273_CCB.d	B CA
MBLK-171585	1	21-Oct-2021 23:12	274SMPL.d	B CA
LCS-171585	1	21-Oct-2021 23:14	275SMPL.d	B CA
MW-63	1	21-Oct-2021 23:16	276SMPL.d	B
MW-63SD	5	21-Oct-2021 23:18	277SMPL.d	B
MW-63MS	1	21-Oct-2021 23:20	278SMPL.d	B CA
MW-63MSD	1	21-Oct-2021 23:22	279SMPL.d	B CA
CCV 23	1	21-Oct-2021 23:28	282_CCV.d	B CA
CCB 24	1	21-Oct-2021 23:30	283_CCB.d	B CA
MW-58MS	1	21-Oct-2021 23:36	286SMPL.d	B CA
MW-58MSD	1	21-Oct-2021 23:38	287SMPL.d	B CA
CCV 24	1	21-Oct-2021 23:44	290_CCV.d	B CA
CCB 25	1	21-Oct-2021 23:46	291_CCB.d	B CA
MW-39R	1	21-Oct-2021 23:48	292SMPL.d	B
MW-40	1	21-Oct-2021 23:50	293SMPL.d	B
MW-41	1	21-Oct-2021 23:53	294SMPL.d	B CA
MW-62	1	21-Oct-2021 23:55	295SMPL.d	B
MW-64	1	21-Oct-2021 23:57	296SMPL.d	B
MW-23R	1	21-Oct-2021 23:59	297SMPL.d	B
MW-28D	1	22-Oct-2021 00:01	298SMPL.d	B CA
MW-42	1	22-Oct-2021 00:03	299SMPL.d	B CA
MW-43	1	22-Oct-2021 00:05	300SMPL.d	B CA
MW-44	1	22-Oct-2021 00:07	301SMPL.d	B CA
CCV 25	1	22-Oct-2021 00:09	302_CCV.d	B CA
CCB 26	1	22-Oct-2021 00:11	303_CCB.d	B CA
MW-46R	1	22-Oct-2021 00:13	304SMPL.d	B CA
MW-47	1	22-Oct-2021 00:15	305SMPL.d	B CA
MW-48	1	22-Oct-2021 00:17	306SMPL.d	B CA
MW-50	1	22-Oct-2021 00:19	307SMPL.d	B CA
MW-52	1	22-Oct-2021 00:21	308SMPL.d	B
MW-54	1	22-Oct-2021 00:23	309SMPL.d	B CA
MW-55R	1	22-Oct-2021 00:25	310SMPL.d	B CA
MW-65	1	22-Oct-2021 00:27	311SMPL.d	B
CCV 26	1	22-Oct-2021 00:33	314_CCV.d	B CA
CCB 27	1	22-Oct-2021 00:35	315_CCB.d	B CA

Privileged and Confidential

FORM 13 - ANALYSIS RUN LOG**Client:** TRC Corporation

Run ID:ICPMS06_393911

Project: NRG WA Parish - Appendix III

Instrument:ICPMS06

WorkOrder: HS21100945

Method:SW6020A

Start Date: 21-Oct-2021

End Date: 22-Oct-2021

Sample No.	D/F	Time	FileID	Analytes
CCV 27	1	22-Oct-2021 00:37	316_CCV.d	B CA
CCB 28	1	22-Oct-2021 00:39	317_CCB.d	B CA
LLCCV2	1	22-Oct-2021 00:41	318LCV2.d	B CA
LLCCV5	1	22-Oct-2021 00:43	319LCV5.d	B CA
ICSA	1	22-Oct-2021 00:45	320ICSA.d	B CA
ICSAB	1	22-Oct-2021 00:47	321ICSB.d	B CA

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

Run ID:ICPMS06_393911
Instrument:ICPMS06
Method:SW6020A

CCB ID	Date	Seq	D/F	Units
CCB 2	21-Oct-2021 12:50	6331117	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-49.67	34	500
CCB 3	21-Oct-2021 13:16	6331087	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-37.54	34	500
CCB 4	21-Oct-2021 14:22	6331768	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-44.13	34	500
CCB 5	21-Oct-2021 15:04	6331780	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-67.38	34	500
CCB 6	21-Oct-2021 15:32	6331792	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-38.82	34	500
CCB 7	21-Oct-2021 16:07	6331804	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-36.5	34	500
CCB 8	21-Oct-2021 16:36	6332046	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-40.3	34	500
CCB 12	21-Oct-2021 18:20	6332090	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-36.32	34	500
CCB 13	21-Oct-2021 19:15	6332093	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-36.86	34	500
CCB 16	21-Oct-2021 20:20	6332126	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-44.88	34	500
CCB 17	21-Oct-2021 20:41	6332136	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	28.83	11	20
	Calcium	41.86	34	500
CCB 18	21-Oct-2021 21:14	6332144	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	11.07	11	20
CCB 19	21-Oct-2021 21:36	6332155	1	ug/L
	Analyte	Result	MDL	Report Limit
	Calcium	-48.94	34	500

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

Run ID:ICPMS06_393911
Instrument:ICPMS06
Method:SW6020A

CCB ID	Date	Seq	D/F	Units												
CCB 20	21-Oct-2021 21:59	6332167	1	ug/L												
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>MDL</th> <th>Report Limit</th> </tr> </thead> <tbody> <tr> <td>Boron</td> <td>36</td> <td>11</td> <td>20</td> </tr> </tbody> </table>					Analyte	Result	MDL	Report Limit	Boron	36	11	20				
Analyte	Result	MDL	Report Limit													
Boron	36	11	20													
CCB 23	21-Oct-2021 23:10	6332195	1	ug/L												
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>MDL</th> <th>Report Limit</th> </tr> </thead> <tbody> <tr> <td>Boron</td> <td>23.43</td> <td>11</td> <td>20</td> </tr> <tr> <td>Calcium</td> <td>46.37</td> <td>34</td> <td>500</td> </tr> </tbody> </table>					Analyte	Result	MDL	Report Limit	Boron	23.43	11	20	Calcium	46.37	34	500
Analyte	Result	MDL	Report Limit													
Boron	23.43	11	20													
Calcium	46.37	34	500													
CCB 25	21-Oct-2021 23:46	6332587	1	ug/L												
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>MDL</th> <th>Report Limit</th> </tr> </thead> <tbody> <tr> <td>Boron</td> <td>16.32</td> <td>11</td> <td>20</td> </tr> </tbody> </table>					Analyte	Result	MDL	Report Limit	Boron	16.32	11	20				
Analyte	Result	MDL	Report Limit													
Boron	16.32	11	20													
CCB 26	22-Oct-2021 00:11	6332599	1	ug/L												
<table border="1"> <thead> <tr> <th>Analyte</th> <th>Result</th> <th>MDL</th> <th>Report Limit</th> </tr> </thead> <tbody> <tr> <td>Boron</td> <td>11.13</td> <td>11</td> <td>20</td> </tr> </tbody> </table>					Analyte	Result	MDL	Report Limit	Boron	11.13	11	20				
Analyte	Result	MDL	Report Limit													
Boron	11.13	11	20													

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21100945

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21100945-01	MW-39R	Groundwater		15-Oct-2021 08:30	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-02	MW-40	Groundwater		15-Oct-2021 11:45	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-03	MW-41	Groundwater		15-Oct-2021 10:10	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-04	MW-62	Groundwater		15-Oct-2021 12:00	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-05	MW-63	Groundwater		15-Oct-2021 09:20	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-06	MW-64	Groundwater		15-Oct-2021 10:50	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-07	MW-23R	Groundwater		15-Oct-2021 11:35	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-08	MW-28D	Groundwater		15-Oct-2021 10:50	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-09	MW-42	Groundwater		15-Oct-2021 10:45	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-10	MW-43	Groundwater		15-Oct-2021 12:15	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-11	MW-44	Groundwater		15-Oct-2021 09:15	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-12	MW-46R	Groundwater		15-Oct-2021 08:25	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-13	MW-47	Groundwater		15-Oct-2021 11:05	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-14	MW-48	Groundwater		15-Oct-2021 10:25	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-15	MW-50	Groundwater		15-Oct-2021 11:45	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-16	MW-52	Groundwater		15-Oct-2021 12:25	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-17	MW-54	Groundwater		15-Oct-2021 08:15	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-18	MW-55R	Groundwater		15-Oct-2021 09:05	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-19	MW-58	Groundwater		15-Oct-2021 09:55	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-20	MW-65	Groundwater		15-Oct-2021 09:45	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-21	MW-36	Groundwater		15-Oct-2021 11:15	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-22	MW-37	Groundwater		15-Oct-2021 10:30	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-23	MW-38R	Groundwater		15-Oct-2021 09:45	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-24	MW-60	Groundwater		15-Oct-2021 08:15	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-25	MW-61	Groundwater		15-Oct-2021 08:55	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-26	DUP-01	Groundwater		15-Oct-2021 12:00	15-Oct-2021 15:00	<input type="checkbox"/>

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
Work Order: HS21100945

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21100945-27	DUP-02	Groundwater		15-Oct-2021 10:00	15-Oct-2021 15:00	<input type="checkbox"/>
HS21100945-28	FB-01	Water		15-Oct-2021 09:05	15-Oct-2021 15:00	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-39R
 Collection Date: 15-Oct-2021 08:30

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.129		0.0110	0.0200	mg/L	1	21-Oct-2021 23:48
Calcium	216		0.340	5.00	mg/L	10	22-Oct-2021 15:12
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	454		4.00	10.0	mg/L	20	26-Oct-2021 18:45
Sulfate	66.3		0.200	0.500	mg/L	1	26-Oct-2021 18:37
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,380		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-40
 Collection Date: 15-Oct-2021 11:45

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.0854		0.0110	0.0200	mg/L	1	21-Oct-2021 23:50
Calcium	313		0.340	5.00	mg/L	10	22-Oct-2021 15:16
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	548		4.00	10.0	mg/L	20	26-Oct-2021 18:59
Sulfate	140		4.00	10.0	mg/L	20	26-Oct-2021 18:59
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,790		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-41
 Collection Date: 15-Oct-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.188		0.0110	0.0200	mg/L	1	21-Oct-2021 23:53
Calcium	94.7		0.0340	0.500	mg/L	1	21-Oct-2021 23:53
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	71.3		1.00	2.50	mg/L	5	26-Oct-2021 19:14
Sulfate	47.9		1.00	2.50	mg/L	5	26-Oct-2021 19:14
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	486		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-62
 Collection Date: 15-Oct-2021 12:00

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.0825		0.0110	0.0200	mg/L	1	21-Oct-2021 23:55
Calcium	194		0.340	5.00	mg/L	10	22-Oct-2021 15:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	586		4.00	10.0	mg/L	20	26-Oct-2021 19:29
Sulfate	121		4.00	10.0	mg/L	20	26-Oct-2021 19:29
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,600		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-63
 Collection Date: 15-Oct-2021 09:20

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.356		0.0110	0.0200	mg/L	1	21-Oct-2021 23:16
Calcium	254		0.340	5.00	mg/L	10	22-Oct-2021 17:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	344		4.00	10.0	mg/L	20	26-Oct-2021 20:21
Sulfate	455		4.00	10.0	mg/L	20	26-Oct-2021 20:21
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,710		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-64
 Collection Date: 15-Oct-2021 10:50

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.101		0.0110	0.0200	mg/L	1	21-Oct-2021 23:57
Calcium	227		0.340	5.00	mg/L	10	22-Oct-2021 15:25
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	495		4.00	10.0	mg/L	20	26-Oct-2021 20:36
Sulfate	44.9		0.200	0.500	mg/L	1	26-Oct-2021 20:28
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,560		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-23R
 Collection Date: 15-Oct-2021 11:35

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.230		0.0110	0.0200	mg/L	1	21-Oct-2021 23:59
Calcium	446		0.340	5.00	mg/L	10	22-Oct-2021 15:27
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	1,110		10.0	25.0	mg/L	50	26-Oct-2021 20:50
Sulfate	1,250		10.0	25.0	mg/L	50	26-Oct-2021 20:50
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	3,730		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-28D
 Collection Date: 15-Oct-2021 10:50

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.145		0.0110	0.0200	mg/L	1	22-Oct-2021 00:01
Calcium	115		0.0340	0.500	mg/L	1	22-Oct-2021 00:01
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	181		4.00	10.0	mg/L	20	26-Oct-2021 21:05
Sulfate	100		4.00	10.0	mg/L	20	26-Oct-2021 21:05
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	818		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-42
 Collection Date: 15-Oct-2021 10:45

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.450		0.0110	0.0200	mg/L	1	22-Oct-2021 00:03
Calcium	140		0.0340	0.500	mg/L	1	22-Oct-2021 00:03
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	321		4.00	10.0	mg/L	20	26-Oct-2021 21:35
Sulfate	506		4.00	10.0	mg/L	20	26-Oct-2021 21:35
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,610		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-43
 Collection Date: 15-Oct-2021 12:15

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.364		0.0110	0.0200	mg/L	1	22-Oct-2021 00:05
Calcium	85.5		0.0340	0.500	mg/L	1	22-Oct-2021 00:05
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	223		4.00	10.0	mg/L	20	26-Oct-2021 21:50
Sulfate	69.4		0.200	0.500	mg/L	1	26-Oct-2021 21:42
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	802		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-44
 Collection Date: 15-Oct-2021 09:15

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.227		0.0110	0.0200	mg/L	1	22-Oct-2021 00:07
Calcium	124		0.0340	0.500	mg/L	1	22-Oct-2021 00:07
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	288		4.00	10.0	mg/L	20	26-Oct-2021 22:04
Sulfate	198		4.00	10.0	mg/L	20	26-Oct-2021 22:04
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,120		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-46R
 Collection Date: 15-Oct-2021 08:25

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.148		0.0110	0.0200	mg/L	1	22-Oct-2021 00:13
Calcium	101		0.0340	0.500	mg/L	1	22-Oct-2021 00:13
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	158		2.00	5.00	mg/L	10	26-Oct-2021 22:19
Sulfate	87.5		2.00	5.00	mg/L	10	26-Oct-2021 22:19
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	766		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-47
 Collection Date: 15-Oct-2021 11:05

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.229		0.0110	0.0200	mg/L	1	22-Oct-2021 00:15
Calcium	111		0.0340	0.500	mg/L	1	22-Oct-2021 00:15
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	291		4.00	10.0	mg/L	20	26-Oct-2021 22:34
Sulfate	72.7		0.200	0.500	mg/L	1	26-Oct-2021 22:27
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	968		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-48
 Collection Date: 15-Oct-2021 10:25

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.551		0.0110	0.0200	mg/L	1	22-Oct-2021 00:17
Calcium	71.1		0.0340	0.500	mg/L	1	22-Oct-2021 00:17
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	388		4.00	10.0	mg/L	20	26-Oct-2021 23:11
Sulfate	91.0		4.00	10.0	mg/L	20	26-Oct-2021 23:11
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,200		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-50
 Collection Date: 15-Oct-2021 11:45

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.266		0.0110	0.0200	mg/L	1	22-Oct-2021 00:19
Calcium	129		0.0340	0.500	mg/L	1	22-Oct-2021 00:19
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	346		4.00	10.0	mg/L	20	26-Oct-2021 23:26
Sulfate	98.9		4.00	10.0	mg/L	20	26-Oct-2021 23:26
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,170		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-52
 Collection Date: 15-Oct-2021 12:25

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.356		0.0110	0.0200	mg/L	1	22-Oct-2021 00:21
Calcium	276		0.340	5.00	mg/L	10	22-Oct-2021 15:35
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	607		4.00	10.0	mg/L	20	26-Oct-2021 23:41
Sulfate	390		4.00	10.0	mg/L	20	26-Oct-2021 23:41
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	2,010		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-54
 Collection Date: 15-Oct-2021 08:15

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.267		0.0110	0.0200	mg/L	1	22-Oct-2021 00:23
Calcium	92.1		0.0340	0.500	mg/L	1	22-Oct-2021 00:23
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	240		4.00	10.0	mg/L	20	26-Oct-2021 23:55
Sulfate	72.8		0.200	0.500	mg/L	1	26-Oct-2021 23:48
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	868		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-55R
 Collection Date: 15-Oct-2021 09:05

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.459		0.0110	0.0200	mg/L	1	22-Oct-2021 00:25
Calcium	112		0.0340	0.500	mg/L	1	22-Oct-2021 00:25
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	312		4.00	10.0	mg/L	20	27-Oct-2021 00:10
Sulfate	96.1		4.00	10.0	mg/L	20	27-Oct-2021 00:10
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,060		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-58
 Collection Date: 15-Oct-2021 09:55

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	1.89		0.110	0.200	mg/L	10	22-Oct-2021 15:17
Calcium	228		0.340	5.00	mg/L	10	22-Oct-2021 15:17
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	289		4.00	10.0	mg/L	20	27-Oct-2021 00:55
Sulfate	647		4.00	10.0	mg/L	20	27-Oct-2021 00:55
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,770		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-65
 Collection Date: 15-Oct-2021 09:45

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.347		0.0110	0.0200	mg/L	1	22-Oct-2021 00:27
Calcium	157		0.340	5.00	mg/L	10	22-Oct-2021 15:14
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	271		4.00	10.0	mg/L	20	27-Oct-2021 01:09
Sulfate	650		4.00	10.0	mg/L	20	27-Oct-2021 01:09
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,810		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-36
 Collection Date: 15-Oct-2021 11:15

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.0649		0.0110	0.0200	mg/L	1	21-Oct-2021 21:16
Calcium	162		0.340	5.00	mg/L	10	22-Oct-2021 13:16
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	378		4.00	10.0	mg/L	20	27-Oct-2021 01:24
Sulfate	511		4.00	10.0	mg/L	20	27-Oct-2021 01:24
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,480		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-37
 Collection Date: 15-Oct-2021 10:30

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.414		0.0110	0.0200	mg/L	1	21-Oct-2021 21:18
Calcium	195		0.340	5.00	mg/L	10	22-Oct-2021 13:37
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	253		4.00	10.0	mg/L	20	27-Oct-2021 01:39
Sulfate	862		4.00	10.0	mg/L	20	27-Oct-2021 01:39
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	2,020		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-38R
 Collection Date: 15-Oct-2021 09:45

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.401		0.0110	0.0200	mg/L	1	21-Oct-2021 21:20
Calcium	142		0.340	5.00	mg/L	10	22-Oct-2021 13:39
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	324		4.00	10.0	mg/L	20	27-Oct-2021 02:16
Sulfate	667		4.00	10.0	mg/L	20	27-Oct-2021 02:16
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,680		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-60
 Collection Date: 15-Oct-2021 08:15

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.0868		0.0110	0.0200	mg/L	1	21-Oct-2021 21:22
Calcium	113		0.340	5.00	mg/L	10	22-Oct-2021 13:41
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	310		4.00	10.0	mg/L	20	27-Oct-2021 02:46
Sulfate	218		4.00	10.0	mg/L	20	27-Oct-2021 02:46
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,300		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: MW-61
 Collection Date: 15-Oct-2021 08:55

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.826		0.110	0.200	mg/L	10	22-Oct-2021 13:47
Calcium	146		0.340	5.00	mg/L	10	22-Oct-2021 13:47
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	248		4.00	10.0	mg/L	20	27-Oct-2021 03:01
Sulfate	1,640		4.00	10.0	mg/L	20	27-Oct-2021 03:01
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,660		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-01
 Collection Date: 15-Oct-2021 12:00

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.0784		0.0110	0.0200	mg/L	1	21-Oct-2021 21:26
Calcium	164		0.340	5.00	mg/L	10	22-Oct-2021 13:49
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	322		4.00	10.0	mg/L	20	27-Oct-2021 03:15
Sulfate	412		4.00	10.0	mg/L	20	27-Oct-2021 03:15
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,420		5.00	10.0	mg/L	1	21-Oct-2021 18:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: DUP-02
 Collection Date: 15-Oct-2021 10:00

ANALYTICAL REPORT

WorkOrder:HS21100945
 Lab ID:HS21100945-27
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	0.209		0.0110	0.0200	mg/L	1	21-Oct-2021 21:28
Calcium	120		0.0340	0.500	mg/L	1	21-Oct-2021 21:28
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	298		4.00	10.0	mg/L	20	27-Oct-2021 04:22
Sulfate	204		4.00	10.0	mg/L	20	27-Oct-2021 04:22
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	1,150		5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish - Appendix III
 Sample ID: FB-01
 Collection Date: 15-Oct-2021 09:05

ANALYTICAL REPORT
 WorkOrder:HS21100945
 Lab ID:HS21100945-28
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 21-Oct-2021		Analyst: JHD	
Boron	< 0.0110		0.0110	0.0200	mg/L	1	21-Oct-2021 21:30
Calcium	0.283	J	0.0340	0.500	mg/L	1	21-Oct-2021 21:30
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	< 0.200		0.200	0.500	mg/L	1	27-Oct-2021 04:29
Sulfate	< 0.200		0.200	0.500	mg/L	1	27-Oct-2021 04:29
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: SH	
Total Dissolved Solids (Residue, Filterable)	6.00	J	5.00	10.0	mg/L	1	21-Oct-2021 15:00
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	22-Oct-2021 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

Batch ID: 171585 **Start Date:** 21 Oct 2021 09:30 **End Date:** 21 Oct 2021 13:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21100945-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-12		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-13		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-14		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-15		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-16		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-17		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-18		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-19		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-20		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 171586 **Start Date:** 21 Oct 2021 09:30 **End Date:** 21 Oct 2021 13:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21100945-21		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-22		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-23		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-24		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-25		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-26		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-27		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21100945-28		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 171585 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21100945-01	MW-39R	15 Oct 2021 08:30		21 Oct 2021 13:30	22 Oct 2021 15:12	10
HS21100945-01	MW-39R	15 Oct 2021 08:30		21 Oct 2021 13:30	21 Oct 2021 23:48	1
HS21100945-02	MW-40	15 Oct 2021 11:45		21 Oct 2021 13:30	22 Oct 2021 15:16	10
HS21100945-02	MW-40	15 Oct 2021 11:45		21 Oct 2021 13:30	21 Oct 2021 23:50	1
HS21100945-03	MW-41	15 Oct 2021 10:10		21 Oct 2021 13:30	21 Oct 2021 23:53	1
HS21100945-04	MW-62	15 Oct 2021 12:00		21 Oct 2021 13:30	22 Oct 2021 15:23	10
HS21100945-04	MW-62	15 Oct 2021 12:00		21 Oct 2021 13:30	21 Oct 2021 23:55	1
HS21100945-05	MW-63	15 Oct 2021 09:20		21 Oct 2021 13:30	22 Oct 2021 17:23	10
HS21100945-05	MW-63	15 Oct 2021 09:20		21 Oct 2021 13:30	21 Oct 2021 23:16	1
HS21100945-06	MW-64	15 Oct 2021 10:50		21 Oct 2021 13:30	22 Oct 2021 15:25	10
HS21100945-06	MW-64	15 Oct 2021 10:50		21 Oct 2021 13:30	21 Oct 2021 23:57	1
HS21100945-07	MW-23R	15 Oct 2021 11:35		21 Oct 2021 13:30	22 Oct 2021 15:27	10
HS21100945-07	MW-23R	15 Oct 2021 11:35		21 Oct 2021 13:30	21 Oct 2021 23:59	1
HS21100945-08	MW-28D	15 Oct 2021 10:50		21 Oct 2021 13:30	22 Oct 2021 00:01	1
HS21100945-09	MW-42	15 Oct 2021 10:45		21 Oct 2021 13:30	22 Oct 2021 00:03	1
HS21100945-10	MW-43	15 Oct 2021 12:15		21 Oct 2021 13:30	22 Oct 2021 00:05	1
HS21100945-11	MW-44	15 Oct 2021 09:15		21 Oct 2021 13:30	22 Oct 2021 00:07	1
HS21100945-12	MW-46R	15 Oct 2021 08:25		21 Oct 2021 13:30	22 Oct 2021 00:13	1
HS21100945-13	MW-47	15 Oct 2021 11:05		21 Oct 2021 13:30	22 Oct 2021 00:15	1
HS21100945-14	MW-48	15 Oct 2021 10:25		21 Oct 2021 13:30	22 Oct 2021 00:17	1
HS21100945-15	MW-50	15 Oct 2021 11:45		21 Oct 2021 13:30	22 Oct 2021 00:19	1
HS21100945-16	MW-52	15 Oct 2021 12:25		21 Oct 2021 13:30	22 Oct 2021 15:35	10
HS21100945-16	MW-52	15 Oct 2021 12:25		21 Oct 2021 13:30	22 Oct 2021 00:21	1
HS21100945-17	MW-54	15 Oct 2021 08:15		21 Oct 2021 13:30	22 Oct 2021 00:23	1
HS21100945-18	MW-55R	15 Oct 2021 09:05		21 Oct 2021 13:30	22 Oct 2021 00:25	1
HS21100945-19	MW-58	15 Oct 2021 09:55		21 Oct 2021 13:30	22 Oct 2021 15:17	10
HS21100945-20	MW-65	15 Oct 2021 09:45		21 Oct 2021 13:30	22 Oct 2021 15:14	10
HS21100945-20	MW-65	15 Oct 2021 09:45		21 Oct 2021 13:30	22 Oct 2021 00:27	1
Batch ID: 171586 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21100945-28	FB-01	15 Oct 2021 09:05		21 Oct 2021 13:30	21 Oct 2021 21:30	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 171586 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS21100945-21	MW-36	15 Oct 2021 11:15		21 Oct 2021 13:30	22 Oct 2021 13:16	10
HS21100945-21	MW-36	15 Oct 2021 11:15		21 Oct 2021 13:30	21 Oct 2021 21:16	1
HS21100945-22	MW-37	15 Oct 2021 10:30		21 Oct 2021 13:30	22 Oct 2021 13:37	10
HS21100945-22	MW-37	15 Oct 2021 10:30		21 Oct 2021 13:30	21 Oct 2021 21:18	1
HS21100945-23	MW-38R	15 Oct 2021 09:45		21 Oct 2021 13:30	22 Oct 2021 13:39	10
HS21100945-23	MW-38R	15 Oct 2021 09:45		21 Oct 2021 13:30	21 Oct 2021 21:20	1
HS21100945-24	MW-60	15 Oct 2021 08:15		21 Oct 2021 13:30	22 Oct 2021 13:41	10
HS21100945-24	MW-60	15 Oct 2021 08:15		21 Oct 2021 13:30	21 Oct 2021 21:22	1
HS21100945-25	MW-61	15 Oct 2021 08:55		21 Oct 2021 13:30	22 Oct 2021 13:47	10
HS21100945-26	DUP-01	15 Oct 2021 12:00		21 Oct 2021 13:30	22 Oct 2021 13:49	10
HS21100945-26	DUP-01	15 Oct 2021 12:00		21 Oct 2021 13:30	21 Oct 2021 21:26	1
HS21100945-27	DUP-02	15 Oct 2021 10:00		21 Oct 2021 13:30	21 Oct 2021 21:28	1
Batch ID: R394012 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21100945-28	FB-01	15 Oct 2021 09:05			22 Oct 2021 13:45	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R394012 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Groundwater	
HS21100945-01	MW-39R	15 Oct 2021 08:30			22 Oct 2021 13:45	1
HS21100945-02	MW-40	15 Oct 2021 11:45			22 Oct 2021 13:45	1
HS21100945-03	MW-41	15 Oct 2021 10:10			22 Oct 2021 13:45	1
HS21100945-04	MW-62	15 Oct 2021 12:00			22 Oct 2021 13:45	1
HS21100945-05	MW-63	15 Oct 2021 09:20			22 Oct 2021 13:45	1
HS21100945-06	MW-64	15 Oct 2021 10:50			22 Oct 2021 13:45	1
HS21100945-07	MW-23R	15 Oct 2021 11:35			22 Oct 2021 13:45	1
HS21100945-08	MW-28D	15 Oct 2021 10:50			22 Oct 2021 13:45	1
HS21100945-09	MW-42	15 Oct 2021 10:45			22 Oct 2021 13:45	1
HS21100945-10	MW-43	15 Oct 2021 12:15			22 Oct 2021 13:45	1
HS21100945-11	MW-44	15 Oct 2021 09:15			22 Oct 2021 13:45	1
HS21100945-12	MW-46R	15 Oct 2021 08:25			22 Oct 2021 13:45	1
HS21100945-13	MW-47	15 Oct 2021 11:05			22 Oct 2021 13:45	1
HS21100945-14	MW-48	15 Oct 2021 10:25			22 Oct 2021 13:45	1
HS21100945-15	MW-50	15 Oct 2021 11:45			22 Oct 2021 13:45	1
HS21100945-16	MW-52	15 Oct 2021 12:25			22 Oct 2021 13:45	1
HS21100945-17	MW-54	15 Oct 2021 08:15			22 Oct 2021 13:45	1
HS21100945-18	MW-55R	15 Oct 2021 09:05			22 Oct 2021 13:45	1
HS21100945-19	MW-58	15 Oct 2021 09:55			22 Oct 2021 13:45	1
HS21100945-20	MW-65	15 Oct 2021 09:45			22 Oct 2021 13:45	1
HS21100945-21	MW-36	15 Oct 2021 11:15			22 Oct 2021 13:45	1
HS21100945-22	MW-37	15 Oct 2021 10:30			22 Oct 2021 13:45	1
HS21100945-23	MW-38R	15 Oct 2021 09:45			22 Oct 2021 13:45	1
HS21100945-24	MW-60	15 Oct 2021 08:15			22 Oct 2021 13:45	1
HS21100945-25	MW-61	15 Oct 2021 08:55			22 Oct 2021 13:45	1
HS21100945-26	DUP-01	15 Oct 2021 12:00			22 Oct 2021 13:45	1
HS21100945-27	DUP-02	15 Oct 2021 10:00			22 Oct 2021 13:45	1
Batch ID: R394028 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS21100945-28	FB-01	15 Oct 2021 09:05			21 Oct 2021 15:00	1
Batch ID: R394028 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS21100945-01	MW-39R	15 Oct 2021 08:30			21 Oct 2021 15:00	1
HS21100945-02	MW-40	15 Oct 2021 11:45			21 Oct 2021 15:00	1
HS21100945-03	MW-41	15 Oct 2021 10:10			21 Oct 2021 15:00	1
HS21100945-04	MW-62	15 Oct 2021 12:00			21 Oct 2021 15:00	1
HS21100945-05	MW-63	15 Oct 2021 09:20			21 Oct 2021 15:00	1
HS21100945-06	MW-64	15 Oct 2021 10:50			21 Oct 2021 15:00	1
HS21100945-27	DUP-02	15 Oct 2021 10:00			21 Oct 2021 15:00	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R394031 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Groundwater	
HS21100945-07	MW-23R	15 Oct 2021 11:35			21 Oct 2021 18:00	1
HS21100945-08	MW-28D	15 Oct 2021 10:50			21 Oct 2021 18:00	1
HS21100945-09	MW-42	15 Oct 2021 10:45			21 Oct 2021 18:00	1
HS21100945-10	MW-43	15 Oct 2021 12:15			21 Oct 2021 18:00	1
HS21100945-11	MW-44	15 Oct 2021 09:15			21 Oct 2021 18:00	1
HS21100945-12	MW-46R	15 Oct 2021 08:25			21 Oct 2021 18:00	1
HS21100945-13	MW-47	15 Oct 2021 11:05			21 Oct 2021 18:00	1
HS21100945-14	MW-48	15 Oct 2021 10:25			21 Oct 2021 18:00	1
HS21100945-15	MW-50	15 Oct 2021 11:45			21 Oct 2021 18:00	1
HS21100945-16	MW-52	15 Oct 2021 12:25			21 Oct 2021 18:00	1
HS21100945-17	MW-54	15 Oct 2021 08:15			21 Oct 2021 18:00	1
HS21100945-18	MW-55R	15 Oct 2021 09:05			21 Oct 2021 18:00	1
HS21100945-19	MW-58	15 Oct 2021 09:55			21 Oct 2021 18:00	1
HS21100945-20	MW-65	15 Oct 2021 09:45			21 Oct 2021 18:00	1
HS21100945-21	MW-36	15 Oct 2021 11:15			21 Oct 2021 18:00	1
HS21100945-22	MW-37	15 Oct 2021 10:30			21 Oct 2021 18:00	1
HS21100945-23	MW-38R	15 Oct 2021 09:45			21 Oct 2021 18:00	1
HS21100945-24	MW-60	15 Oct 2021 08:15			21 Oct 2021 18:00	1
HS21100945-25	MW-61	15 Oct 2021 08:55			21 Oct 2021 18:00	1
HS21100945-26	DUP-01	15 Oct 2021 12:00			21 Oct 2021 18:00	1

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R394293 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS21100945-01	MW-39R	15 Oct 2021 08:30			26 Oct 2021 18:45	20
HS21100945-01	MW-39R	15 Oct 2021 08:30			26 Oct 2021 18:37	1
HS21100945-02	MW-40	15 Oct 2021 11:45			26 Oct 2021 18:59	20
HS21100945-03	MW-41	15 Oct 2021 10:10			26 Oct 2021 19:14	5
HS21100945-04	MW-62	15 Oct 2021 12:00			26 Oct 2021 19:29	20
HS21100945-05	MW-63	15 Oct 2021 09:20			26 Oct 2021 20:21	20
HS21100945-06	MW-64	15 Oct 2021 10:50			26 Oct 2021 20:36	20
HS21100945-06	MW-64	15 Oct 2021 10:50			26 Oct 2021 20:28	1
HS21100945-07	MW-23R	15 Oct 2021 11:35			26 Oct 2021 20:50	50
HS21100945-08	MW-28D	15 Oct 2021 10:50			26 Oct 2021 21:05	20
HS21100945-09	MW-42	15 Oct 2021 10:45			26 Oct 2021 21:35	20
HS21100945-10	MW-43	15 Oct 2021 12:15			26 Oct 2021 21:50	20
HS21100945-10	MW-43	15 Oct 2021 12:15			26 Oct 2021 21:42	1
HS21100945-11	MW-44	15 Oct 2021 09:15			26 Oct 2021 22:04	20
HS21100945-12	MW-46R	15 Oct 2021 08:25			26 Oct 2021 22:19	10
HS21100945-13	MW-47	15 Oct 2021 11:05			26 Oct 2021 22:34	20
HS21100945-13	MW-47	15 Oct 2021 11:05			26 Oct 2021 22:27	1
HS21100945-14	MW-48	15 Oct 2021 10:25			26 Oct 2021 23:11	20
HS21100945-15	MW-50	15 Oct 2021 11:45			26 Oct 2021 23:26	20
HS21100945-16	MW-52	15 Oct 2021 12:25			26 Oct 2021 23:41	20
HS21100945-17	MW-54	15 Oct 2021 08:15			26 Oct 2021 23:55	20
HS21100945-17	MW-54	15 Oct 2021 08:15			26 Oct 2021 23:48	1
HS21100945-18	MW-55R	15 Oct 2021 09:05			27 Oct 2021 00:10	20
HS21100945-19	MW-58	15 Oct 2021 09:55			27 Oct 2021 00:55	20
HS21100945-20	MW-65	15 Oct 2021 09:45			27 Oct 2021 01:09	20
Batch ID: R394307 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21100945-28	FB-01	15 Oct 2021 09:05			27 Oct 2021 04:29	1
Batch ID: R394307 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Groundwater	
HS21100945-21	MW-36	15 Oct 2021 11:15			27 Oct 2021 01:24	20
HS21100945-22	MW-37	15 Oct 2021 10:30			27 Oct 2021 01:39	20
HS21100945-23	MW-38R	15 Oct 2021 09:45			27 Oct 2021 02:16	20
HS21100945-24	MW-60	15 Oct 2021 08:15			27 Oct 2021 02:46	20
HS21100945-25	MW-61	15 Oct 2021 08:55			27 Oct 2021 03:01	20
HS21100945-26	DUP-01	15 Oct 2021 12:00			27 Oct 2021 03:15	20
HS21100945-27	DUP-02	15 Oct 2021 10:00			27 Oct 2021 04:22	20

WorkOrder: HS21100945
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020A
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Boron	7440-42-8	0.0125	0.0220	0.0110	0.0200
A	Calcium	7440-70-2	0.0500	0.0985	0.0340	0.500

WorkOrder: HS21100945
 InstrumentID: ICS-Integrion
 Test Code: 300_W
 Test Number: E300
 Test Name: Anions by E300.0, Rev 2.1, 1993

METHOD DETECTION / REPORTING LIMITS
Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Chloride	16887-00-6	0.500	0.364	0.200	0.500
A	Sulfate	14808-79-8	0.500	0.173	0.200	0.500

WorkOrder: HS21100945 **METHOD DETECTION / REPORTING LIMITS**
 InstrumentID: Balance1
 Test Code: TDS_W 2540C
 Test Number: M2540C **Matrix:** Aqueous **Units:** mg/L
 Test Name: Total Dissolved Solids by SM2540C

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	5.00	8.00	5.00	10.0

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: 171585 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-171585	Units: mg/L			Analysis Date: 21-Oct-2021 23:12					
Client ID:		Run ID: ICPMS06_393911	SeqNo: 6332570	PrepDate: 21-Oct-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-171585	Units: mg/L			Analysis Date: 21-Oct-2021 23:14					
Client ID:		Run ID: ICPMS06_393911	SeqNo: 6332571	PrepDate: 21-Oct-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.4669	0.0200	0.5	0	93.4	80 - 120				
Calcium	4.783	0.500	5	0	95.7	80 - 120				
MS	Sample ID: HS21100945-19MS	Units: mg/L			Analysis Date: 21-Oct-2021 23:36					
Client ID: MW-58		Run ID: ICPMS06_393911	SeqNo: 6332582	PrepDate: 21-Oct-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	2.257	0.0200	0.5	1.783	94.8	80 - 120				E
Calcium	223.8	0.500	5	207.7	322	80 - 120				SEO
MS	Sample ID: HS21100945-05MS	Units: mg/L			Analysis Date: 21-Oct-2021 23:20					
Client ID: MW-63		Run ID: ICPMS06_393911	SeqNo: 6332574	PrepDate: 21-Oct-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.837	0.0200	0.5	0.3563	96.1	80 - 120				
Calcium	292.7	0.500	5	275.3	348	80 - 120				SEO
MSD	Sample ID: HS21100945-19MSD	Units: mg/L			Analysis Date: 21-Oct-2021 23:38					
Client ID: MW-58		Run ID: ICPMS06_393911	SeqNo: 6332583	PrepDate: 21-Oct-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	2.311	0.0200	0.5	1.783	106	80 - 120	2.257	2.39	20	E
Calcium	226.1	0.500	5	207.7	368	80 - 120	223.8	1.03	20	SEO

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: 171585 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MSD		Sample ID: HS21100945-05MSD			Units: mg/L		Analysis Date: 21-Oct-2021 23:22			
Client ID: MW-63	Run ID: ICPMS06_393911			SeqNo: 6332575	PrepDate: 21-Oct-2021		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.8464	0.0200	0.5	0.3563	98.0	80 - 120	0.837	1.12	20	
Calcium	284.5	0.500	5	275.3	183	80 - 120	292.7	2.87	20	SEO
PDS		Sample ID: HS21100945-19PDS			Units: mg/L		Analysis Date: 22-Oct-2021 15:21			
Client ID: MW-58	Run ID: ICPMS06_394016			SeqNo: 6334110	PrepDate: 21-Oct-2021		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	4.338	0.200	2.5	1.888	98.0	75 - 125				
Calcium	313	5.00	100	228.3	84.7	75 - 125				
PDS		Sample ID: HS21100945-05PDS			Units: mg/L		Analysis Date: 22-Oct-2021 17:57			
Client ID: MW-63	Run ID: ICPMS06_394016			SeqNo: 6334388	PrepDate: 21-Oct-2021		DF: 10			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	404.5	5.00	200	254.3	75.1	75 - 125				
SD		Sample ID: HS21100945-19SD			Units: mg/L		Analysis Date: 22-Oct-2021 15:19			
Client ID: MW-58	Run ID: ICPMS06_394016			SeqNo: 6334109	PrepDate: 21-Oct-2021		DF: 50			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Boron	1.894	1.00					1.888	0.302	10	
Calcium	233.3	25.0					228.3	2.16	10	
SD		Sample ID: HS21100945-05SD			Units: mg/L		Analysis Date: 21-Oct-2021 23:18			
Client ID: MW-63	Run ID: ICPMS06_393911			SeqNo: 6332573	PrepDate: 21-Oct-2021		DF: 5			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Boron	0.3953	0.100					0.3563	10.9	10	R
SD		Sample ID: HS21100945-05SD			Units: mg/L		Analysis Date: 22-Oct-2021 17:54			
Client ID: MW-63	Run ID: ICPMS06_394016			SeqNo: 6334387	PrepDate: 21-Oct-2021		DF: 50			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Calcium	256	25.0					254.3	0.642	10	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: 171585 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A		
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The following samples were analyzed in this batch:

HS21100945-01	HS21100945-02	HS21100945-03	HS21100945-04
HS21100945-05	HS21100945-06	HS21100945-07	HS21100945-08
HS21100945-09	HS21100945-10	HS21100945-11	HS21100945-12
HS21100945-13	HS21100945-14	HS21100945-15	HS21100945-16
HS21100945-17	HS21100945-18	HS21100945-19	HS21100945-20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: 171586 (0)		Instrument: ICPMS06			Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-171586	Units: mg/L			Analysis Date: 21-Oct-2021 20:26					
Client ID:		Run ID: ICPMS06_393911			SeqNo: 6332764		PrepDate: 21-Oct-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-171586	Units: mg/L			Analysis Date: 21-Oct-2021 20:24					
Client ID:		Run ID: ICPMS06_393911			SeqNo: 6332763		PrepDate: 21-Oct-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.438	0.0200	0.5	0	87.6	80 - 120				
Calcium	4.88	0.500	5	0	97.6	80 - 120				
MS	Sample ID: HS21100957-02MS	Units: mg/L			Analysis Date: 21-Oct-2021 20:33					
Client ID:		Run ID: ICPMS06_393911			SeqNo: 6332767		PrepDate: 21-Oct-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	3.073	0.0200	0.5	2.549	105	80 - 120				EO
Calcium	656.4	0.500	5	630	528	80 - 120				SEO
MSD	Sample ID: HS21100957-02MSD	Units: mg/L			Analysis Date: 21-Oct-2021 20:35					
Client ID:		Run ID: ICPMS06_393911			SeqNo: 6332768		PrepDate: 21-Oct-2021		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	3.035	0.0200	0.5	2.549	97.3	80 - 120	3.073	1.26	20	EO
Calcium	651.3	0.500	5	630	426	80 - 120	656.4	0.775	20	SEO
PDS	Sample ID: HS21100957-02PDS	Units: mg/L			Analysis Date: 22-Oct-2021 13:31					
Client ID:		Run ID: ICPMS06_394016			SeqNo: 6333559		PrepDate: 21-Oct-2021		DF: 20	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	6.536	0.400	5	2.669	77.3	75 - 125				

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: 171586 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

PDS	Sample ID: HS21100957-02PDS	Units: mg/L			Analysis Date: 22-Oct-2021 15:49				
Client ID:	Run ID: ICPMS06_394016	SeqNo: 6334122	PrepDate: 21-Oct-2021	DF: 20					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Calcium 803.9 10.0 200 639.2 82.4 75 - 125

SD	Sample ID: HS21100957-02SD	Units: mg/L			Analysis Date: 22-Oct-2021 15:43				
Client ID:	Run ID: ICPMS06_394016	SeqNo: 6334119	PrepDate: 21-Oct-2021	DF: 100					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual

Boron 2.898 2.00 2.669 8.58 10

SD	Sample ID: HS21100957-02SD	Units: mg/L			Analysis Date: 22-Oct-2021 15:47				
Client ID:	Run ID: ICPMS06_394016	SeqNo: 6334121	PrepDate: 21-Oct-2021	DF: 100					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual

Calcium 593.7 50.0 639.2 7.12 10

The following samples were analyzed in this batch: HS21100945-21 HS21100945-22 HS21100945-23 HS21100945-24
 HS21100945-25 HS21100945-26 HS21100945-27 HS21100945-28

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394028 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WBLK-102121** Units: **mg/L** Analysis Date: **21-Oct-2021 15:00**
 Client ID: Run ID: **Balance1_394028** SeqNo: **6333952** PrepDate: DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) < 5.00 10.0

LCS Sample ID: **WLCS-102121** Units: **mg/L** Analysis Date: **21-Oct-2021 15:00**
 Client ID: Run ID: **Balance1_394028** SeqNo: **6333953** PrepDate: DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 964 10.0 1000 0 96.4 85 - 115

DUP Sample ID: **HS21100945-05DUP** Units: **mg/L** Analysis Date: **21-Oct-2021 15:00**
 Client ID: **MW-63** Run ID: **Balance1_394028** SeqNo: **6333945** PrepDate: DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1714 10.0 1712 0.117 5

DUP Sample ID: **HS21100884-07DUP** Units: **mg/L** Analysis Date: **21-Oct-2021 15:00**
 Client ID: Run ID: **Balance1_394028** SeqNo: **6333933** PrepDate: DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Total Dissolved Solids (Residue, Filterable) 1292 10.0 1294 0.155 5

The following samples were analyzed in this batch:

HS21100945-01	HS21100945-02	HS21100945-03	HS21100945-04
HS21100945-05	HS21100945-06	HS21100945-27	HS21100945-28

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394031 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-102121	Units: mg/L		Analysis Date: 21-Oct-2021 18:00						
Client ID:	Run ID: Balance1_394031	SeqNo: 6333999		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		< 5.00	10.0							
LCS	Sample ID: WLCS-102121	Units: mg/L		Analysis Date: 21-Oct-2021 18:00						
Client ID:	Run ID: Balance1_394031	SeqNo: 6334000		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		940	10.0	1000	0	94.0	85 - 115			
DUP	Sample ID: HS21100945-19DUP	Units: mg/L		Analysis Date: 21-Oct-2021 18:00						
Client ID: MW-58	Run ID: Balance1_394031	SeqNo: 6333991		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1778	10.0				1768	0.564	5	
DUP	Sample ID: HS21100945-13DUP	Units: mg/L		Analysis Date: 21-Oct-2021 18:00						
Client ID: MW-47	Run ID: Balance1_394031	SeqNo: 6333984		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		968	10.0				968	0	5	

The following samples were analyzed in this batch:

HS21100945-07	HS21100945-08	HS21100945-09	HS21100945-10
HS21100945-11	HS21100945-12	HS21100945-13	HS21100945-14
HS21100945-15	HS21100945-16	HS21100945-17	HS21100945-18
HS21100945-19	HS21100945-20	HS21100945-21	HS21100945-22
HS21100945-23	HS21100945-24	HS21100945-25	HS21100945-26

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394293 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 27-Oct-2021 03:45					
Client ID:		Run ID: ICS-Integrion_394293	SeqNo: 6340610	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.200	0.500								
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 27-Oct-2021 03:52					
Client ID:		Run ID: ICS-Integrion_394293	SeqNo: 6340611	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.56	0.500	20	0	97.8	90 - 110				
Sulfate	19.52	0.500	20	0	97.6	90 - 110				
MS	Sample ID: HS21100945-19MS	Units: mg/L			Analysis Date: 27-Oct-2021 00:40					
Client ID: MW-58		Run ID: ICS-Integrion_394293	SeqNo: 6340601	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	302.5	0.500	10	299	34.7	80 - 120				SEO
Sulfate	626.7	0.500	10	625	17.2	80 - 120				SEO
MS	Sample ID: HS21100945-05MS	Units: mg/L			Analysis Date: 26-Oct-2021 20:06					
Client ID: MW-63		Run ID: ICS-Integrion_394293	SeqNo: 6340565	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	347.9	0.500	10	344.6	33.0	80 - 120				SEO
Sulfate	441.6	0.500	10	438.8	28.1	80 - 120				SEO
MSD	Sample ID: HS21100945-19MSD	Units: mg/L			Analysis Date: 27-Oct-2021 00:47					
Client ID: MW-58		Run ID: ICS-Integrion_394293	SeqNo: 6340602	PrepDate:	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	299.2	0.500	10	299	1.93	80 - 120	302.5	1.09	20	SEO
Sulfate	620.3	0.500	10	625	-47.5	80 - 120	626.7	1.04	20	SEO

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394293 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MSD	Sample ID: HS21100945-05MSD	Units: mg/L			Analysis Date: 26-Oct-2021 20:13					
Client ID: MW-63	Run ID: ICS-Integrion_394293	SeqNo: 6340566	PrepDate:	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride	346.8	0.500	10	344.6	22.1	80 - 120	347.9	0.314	20	SEO
Sulfate	442	0.500	10	438.8	32.6	80 - 120	441.6	0.102	20	SEO

The following samples were analyzed in this batch:

HS21100945-01	HS21100945-02	HS21100945-03	HS21100945-04
HS21100945-05	HS21100945-06	HS21100945-07	HS21100945-08
HS21100945-09	HS21100945-10	HS21100945-11	HS21100945-12
HS21100945-13	HS21100945-14	HS21100945-15	HS21100945-16
HS21100945-17	HS21100945-18	HS21100945-19	HS21100945-20

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394307 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 27-Oct-2021 04:00					
Client ID:		Run ID: ICS-Integrion_394307		SeqNo: 6340893		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	< 0.200	0.500								
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 27-Oct-2021 04:07					
Client ID:		Run ID: ICS-Integrion_394307		SeqNo: 6340894		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	19.52	0.500	20	0	97.6	90 - 110				
Sulfate	19.61	0.500	20	0	98.1	90 - 110				
MS	Sample ID: HS21101447-04MS	Units: mg/L			Analysis Date: 26-Oct-2021 17:08					
Client ID:		Run ID: ICS-Integrion_394307		SeqNo: 6340865		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	37.5	0.500	10	28.31	91.9	80 - 120				
Sulfate	158.7	0.500	10	150.3	83.9	80 - 120			EO	
MS	Sample ID: HS21100945-24MS	Units: mg/L			Analysis Date: 27-Oct-2021 02:31					
Client ID: MW-60		Run ID: ICS-Integrion_394307		SeqNo: 6340883		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	315.5	0.500	10	312.7	27.3	80 - 120			SEO	
Sulfate	213	0.500	10	208.4	46.1	80 - 120			SEO	
MSD	Sample ID: HS21101447-04MSD	Units: mg/L			Analysis Date: 26-Oct-2021 17:15					
Client ID:		Run ID: ICS-Integrion_394307		SeqNo: 6340866		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Chloride	37.41	0.500	10	28.31	91.0	80 - 120	37.5	0.235	20	
Sulfate	158.2	0.500	10	150.3	79.0	80 - 120	158.7	0.306	20 SEO	

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

QC BATCH REPORT

Batch ID: R394307 (0) Instrument: ICS-Integrion Method: ANIONS BY E300.0, REV 2.1, 1993

MSD Sample ID: HS21100945-24MSD Units: mg/L Analysis Date: 27-Oct-2021 02:38
Client ID: MW-60 Run ID: ICS-Integrion_394307 SeqNo: 6340884 PrepDate: DF: 1
Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

Chloride	312.4	0.500	10	312.7	-2.99	80 - 120	315.5	0.964	20	SEO
Sulfate	211.1	0.500	10	208.4	27.1	80 - 120	213	0.895	20	SEO

The following samples were analyzed in this batch: HS21100945-21 HS21100945-22 HS21100945-23 HS21100945-24
HS21100945-25 HS21100945-26 HS21100945-27 HS21100945-28

Client: TRC Corporation
Project: NRG WA Parish - Appendix III
WorkOrder: HS21100945

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-33	30-Jun-2022
Illinois	2000322021-7	09-May-2022
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2021-2022	30-Jun-2022
North Carolina	624-2021	31-Dec-2021
Texas	T104704231-21-28	30-Apr-2022

Sample Receipt Checklist

Work Order ID: HS21100945

Date/Time Received: 15-Oct-2021 15:00

Client Name: TRC-HOU

Received by: Paresh M. Giga

Completed By: <u>/S/ Nilesh D. Ranchod</u>	15-Oct-2021 20:34	Reviewed by: <u>/S/ Corey Grandits</u>	18-Oct-2021 11:26
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **Client**

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 3 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | IDs:253588/253587/253586 |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Temperature(s)/Thermometer(s):	4.2c, 3.2c, 1.6c UC/C	IR #31
Cooler(s)/Kit(s):	47496/47499/47712	
Date/Time sample(s) sent to storage:	10/15/2021 21:00	

- | | | | |
|--|---|--|--|
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted by: | | | |

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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 Holland, MI +1 616 399 6070
 Everett, WA +1 425 356 2600

Chain of Custody Form
 Page 1 of 3
 COC ID: 253588

HS21100945
 TRC Corporation
 NRG WA Parish - Appendix III



Customer Information		Project Information	
Purchase Order	161254	Project Name	NRG WA Parish - Appendix III
Work Order		Project Number	300 W (Cl, SO4) - Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Lon Burts	Invoice Attn	A/P
Address	14701 St. Mary's Lane Suite 500	Address	14701 St. Mary's Lane Suite 500
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77079
Phone	(713) 244-1000	Phone	(713) 244-1000
Fax	(713) 244-1099	Fax	(713) 244-1099
e-Mail Address	Lburts@trcsolutions.com	e-Mail Address	apinvoicapproval@trcsolutions.com

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Mw-39R	10-15-21	830	6w	2/8	3	X	X	X	X							
2	Mw-40		1145				X	X	X	X							
3	Mw-41		1010				X	X	X	X							
4	Mw-62		1200				X	X	X	X							
5	Mw-63		920			9	(X)	(X)	(X)	(X)							
6	Mw-64		1050			3	X	X	X	X							
7	Mw-23R		1135				X	X	X	X							
8	Mw-28D		1050				X	X	X	X							
9	Mw-42		1045				X	X	X	X							
10	Mw-43		1215				X	X	X	X							

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Other	Results Due Date:
Brian Hillin & WMT Team	Drop off Job	<input checked="" type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	
		<input type="checkbox"/> STD 10 Wk Days	<input type="checkbox"/> 24 Hour	

Relinquished by:	Date:	Time:	Relinquished by:	Date:	Time:
[Signature]	10-15-21	15:00	[Signature]	10-15-21	15:00

Notes: NRG CORP/PRIVILEGED & CONFIDENTIAL

QC Packages: (Check One Box Below)

Level I: Level II: Level III: Level IV: TRRP Checklist: TRRP Level IV:

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

Page 2 of 3

COC ID: 253587

TRC Corporation
 NRG WA Parish - Appendix III

HS21700945

WV

Customer Information

Project Name	NRG WA Parish - Appendix III	Project Number	300 W(C), S04 - Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Loft Burts	Invoice Attn	A/P
Address	14701 St. Mary's Lane Suite 500	Address	14701 St. Mary's Lane Suite 500
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77079
Phone	(713) 244-1000	Phone	(713) 244-1000
Fax	(713) 244-1099	Fax	(713) 244-1099
e-Mail Address	LBurts@trcsolutions.com	e-Mail Address	apinvoicereapproval@trcsolutions.com

No. Sample Description Date Time Matrix Pres. # Bottles A B C D E F G H I J Hold

1	MW-44	10-15-21	915	GW	2.8	3	X	X	X	X									
2	MW-46R		825				X	X	X	X									
3	MW-47		1105				X	X	X	X									
4	MW-48		1025				X	X	X	X									
5	MW-50		1145				X	X	X	X									
6	MW-52		1225				X	X	X	X									
7	MW-54		815				X	X	X	X									
8	MW-55R		905				X	X	X	X									
9	MW-58		955				X	X	X	X									
10	MW-65		945				X	X	X	X									

Sampler(s) Please Print & Sign: Brian Hillin + HMT Team
 Shipment Method: Drop off @ Lab
 Required Turnaround Time: (Check Box) 5 Wk Days 2 Wk Days Other
 Results Due Date: _____

Received by: _____ Date: 10-15-21 Time: 1:50
 Received by (Laboratory): _____ Date: _____ Time: _____
 Checked by (Laboratory): _____ Date: 10/15/2021 Time: 1:50

Logged by (Laboratory): _____ Date: _____ Time: _____
 Requisitioned by: _____ Date: 10-15-21 Time: 1:50
 Requisitioned by: _____ Date: _____ Time: _____
 Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂SO₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035
 Cooler ID: _____ Cooler Temp: _____
 QC Package: (Check One Box Below) Level II Std OC TRP Level IV TRP Level IV Level IV SIVB/CLP Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form
Page 3 of 3
COC ID: 253586



TRC Corporation
NRG WA Parish - Appendix III

Customer Information

Purchase Order	161254	Project Name	NRG WA Parish - Appendix III
Work Order		Project Number	300 W(Cl, SO4)-Appendix III
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Lon Burts	Invoice Attn	A/P
Address	14701 St. Mary's Lane Suite 500	Address	14701 St. Mary's Lane Suite 500
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77079
Phone	(713) 244-1000	Phone	(713) 244-1000
Fax	(713) 244-1099	Fax	(713) 244-1099
e-Mail Address	LBurts@trcsolutions.com	e-Mail Address	apl@voicereapproval@trcsolutions.com

Project Information

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Mw-36	10-15-21	1115	Gw		3	X	X	X	X							
2	Mw-37		1030				X	X	X	X							
3	Mw-38R		945				X	X	X	X							
4	Mw-60		815				X	X	X	X							
5	Mw-61		855				X	X	X	X							
6	DUP-01		1200				X	X	X	X							
7	DUP-02		1000				X	X	X	X							
8	FB-01		905	FB			X	X	X	X							

Shipments Method: Other (if applicable) 0-2 hr off lab

Sampler(s) Please Print & Sign: Brian Hillin & HMT Team

Required Turnaround Time: (Check Box) 5 Wk Days 2 Wk Days 24 Hour

Notes: NRG CORP. PRIVILEGED & CONFIDENTIAL

Relinquished by: [Signature] Date: 10-15-21 Time: 1500

Relinquished by: [Signature] Date: 10-15-21 Time: 1500

Received by: [Signature] Date: 10/15/21 Time: 15:00

Checked by (Laboratory): [Signature]

QC Package: (Check One Box Below) TRRP Checklist TRRP Level IV

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Cooler ID: 47498 Cooler Temp: 4.20

Level III Std C/Draw Date: 4/7/12

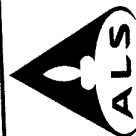
Level III S/N#-B/CLP: 47498

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47496

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OCT 15 2021

CUSTODY SEAL		Seal Broken By: SM
Date: 10-15-21	Time: 1455	Date: 10/15/21
Name: B. Hillin		
Company: HME		



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47499

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OCT 15 2021

CUSTODY SEAL		Seal Broken By: SM
Date: 10-15-21	Time: 1455	Date: 10/15/21
Name: B. Hillin		
Company: HME		



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47712

47712

OCT 15 2021

CUSTODY SEAL		Seal Broken By: SM
Date: 10-15-21	Time: 1455	Date: 10/15/21
Name: B. Hillin		
Company: HME		



22-Oct-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21100945**

Work Order: **21101784**

Dear Corey,

ALS Environmental received 28 samples on 19-Oct-2021 04:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a light blue horizontal line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

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RIGHT SOLUTIONS FROM PARTNER

Client: ALS Environmental
Project: HS21100945
Work Order: 21101784

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

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WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_211021A, 21B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21101784					
Analyst Name: KC		Date 10/21/21	Reviewer Name: CAC		Date: 10-22-21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < 1/2 MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

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S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER #¹	DESCRIPTION		
1	No exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: ALS Environmental
 Project: HS21100945
 Work Order: 21101784

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21101784-01	HS21100945-01	Groundwater	MW-39R	10/15/2021 08:30	10/19/2021 16:00	<input type="checkbox"/>
21101784-02	HS21100945-02	Groundwater	MW-40	10/15/2021 11:45	10/19/2021 16:00	<input type="checkbox"/>
21101784-03	HS21100945-03	Groundwater	MW-41	10/15/2021 10:10	10/19/2021 16:00	<input type="checkbox"/>
21101784-04	HS21100945-04	Groundwater	MW-62	10/15/2021 12:00	10/19/2021 16:00	<input type="checkbox"/>
21101784-05	HS21100945-05	Groundwater	MW-63	10/15/2021 09:20	10/19/2021 16:00	<input type="checkbox"/>
21101784-06	HS21100945-06	Groundwater	MW-64	10/15/2021 10:50	10/19/2021 16:00	<input type="checkbox"/>
21101784-07	HS21100945-07	Groundwater	MW-23R	10/15/2021 11:35	10/19/2021 16:00	<input type="checkbox"/>
21101784-08	HS21100945-08	Groundwater	MW-28D	10/15/2021 10:50	10/19/2021 16:00	<input type="checkbox"/>
21101784-09	HS21100945-09	Groundwater	MW-42	10/15/2021 10:45	10/19/2021 16:00	<input type="checkbox"/>
21101784-10	HS21100945-10	Groundwater	MW-43	10/15/2021 12:15	10/19/2021 16:00	<input type="checkbox"/>
21101784-11	HS21100945-11	Groundwater	MW-44	10/15/2021 09:15	10/19/2021 16:00	<input type="checkbox"/>
21101784-12	HS21100945-12	Groundwater	MW-46R	10/15/2021 08:25	10/19/2021 16:00	<input type="checkbox"/>
21101784-13	HS21100945-13	Groundwater	MW-47	10/15/2021 11:05	10/19/2021 16:00	<input type="checkbox"/>
21101784-14	HS21100945-14	Groundwater	MW-48	10/15/2021 10:25	10/19/2021 16:00	<input type="checkbox"/>
21101784-15	HS21100945-15	Groundwater	MW-50	10/15/2021 11:45	10/19/2021 16:00	<input type="checkbox"/>
21101784-16	HS21100945-16	Groundwater	MW-52	10/15/2021 12:25	10/19/2021 16:00	<input type="checkbox"/>
21101784-17	HS21100945-17	Groundwater	MW-54	10/15/2021 08:15	10/19/2021 16:00	<input type="checkbox"/>
21101784-18	HS21100945-18	Groundwater	MW-55R	10/15/2021 09:05	10/19/2021 16:00	<input type="checkbox"/>
21101784-19	HS21100945-19	Groundwater	MW-58	10/15/2021 09:55	10/19/2021 16:00	<input type="checkbox"/>
21101784-20	HS21100945-20	Groundwater	MW-65	10/15/2021 09:45	10/19/2021 16:00	<input type="checkbox"/>
21101784-21	HS21100945-21	Groundwater	MW-36	10/15/2021 11:15	10/19/2021 16:00	<input type="checkbox"/>
21101784-22	HS21100945-22	Groundwater	MW-37	10/15/2021 10:30	10/19/2021 16:00	<input type="checkbox"/>
21101784-23	HS21100945-23	Groundwater	MW-38R	10/15/2021 09:45	10/19/2021 16:00	<input type="checkbox"/>
21101784-24	HS21100945-24	Groundwater	MW-60	10/15/2021 08:15	10/19/2021 16:00	<input type="checkbox"/>
21101784-25	HS21100945-25	Groundwater	MW-61	10/15/2021 08:55	10/19/2021 16:00	<input type="checkbox"/>
21101784-26	HS21100945-26	Groundwater	DUP-01	10/15/2021 12:00	10/19/2021 16:00	<input type="checkbox"/>
21101784-27	HS21100945-27	Groundwater	DUP-02	10/15/2021 10:00	10/19/2021 16:00	<input type="checkbox"/>
21101784-28	HS21100945-28	Water	FB-01	10/15/2021 09:05	10/19/2021 16:00	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21100945
WorkOrder: 21101784

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21101784
 Client: ALS Environmental
 Project: HS21100945

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R329496 Test Name: Fluoride						
21101784-01	HS21100945-01	Groundwater	10/15/2021 8:30:00 AM			10/21/2021 12:25 PM
^						
21101784-02	HS21100945-02		10/15/2021 11:45:00 AM			10/21/2021 12:25 PM
^						
21101784-03	HS21100945-03		10/15/2021 10:10:00 AM			10/21/2021 12:25 PM
^						
21101784-04	HS21100945-04		10/15/2021 12:00:00 PM			10/21/2021 12:25 PM
^						
21101784-05	HS21100945-05		10/15/2021 9:20:00 AM			10/21/2021 12:25 PM
^						
21101784-06	HS21100945-06		10/15/2021 10:50:00 AM			10/21/2021 12:25 PM
^						
21101784-07	HS21100945-07		10/15/2021 11:35:00 AM			10/21/2021 12:25 PM
^						
21101784-08	HS21100945-08		10/15/2021 10:50:00 AM			10/21/2021 12:25 PM
^						
21101784-09	HS21100945-09		10/15/2021 10:45:00 AM			10/21/2021 12:25 PM
^						
21101784-10	HS21100945-10		10/15/2021 12:15:00 PM			10/21/2021 12:25 PM
^						
21101784-11	HS21100945-11		10/15/2021 9:15:00 AM			10/21/2021 12:25 PM
^						
21101784-12	HS21100945-12		10/15/2021 8:25:00 AM			10/21/2021 12:25 PM
^						
21101784-13	HS21100945-13		10/15/2021 11:05:00 AM			10/21/2021 12:25 PM
^						

Work Order: 21101784
 Client: ALS Environmental
 Project: HS21100945

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R329499 Test Name: Fluoride						
21101784-14	HS21100945-14	Groundwater	10/15/2021 10:25:00 AM			10/21/2021 04:30 PM
^						
21101784-15	HS21100945-15		10/15/2021 11:45:00 AM			10/21/2021 04:30 PM
^						
21101784-16	HS21100945-16		10/15/2021 12:25:00 PM			10/21/2021 04:30 PM
^						
21101784-17	HS21100945-17		10/15/2021 8:15:00 AM			10/21/2021 04:30 PM
^						
21101784-18	HS21100945-18		10/15/2021 9:05:00 AM			10/21/2021 04:30 PM
^						
21101784-19	HS21100945-19		10/15/2021 9:55:00 AM			10/21/2021 04:30 PM
^						
21101784-20	HS21100945-20		10/15/2021 9:45:00 AM			10/21/2021 04:30 PM
^						
21101784-21	HS21100945-21		10/15/2021 11:15:00 AM			10/21/2021 04:30 PM
^						
21101784-22	HS21100945-22		10/15/2021 10:30:00 AM			10/21/2021 04:30 PM
^						
21101784-23	HS21100945-23		10/15/2021 9:45:00 AM			10/21/2021 04:30 PM
^						
21101784-24	HS21100945-24		10/15/2021 8:15:00 AM			10/21/2021 04:30 PM
^						
21101784-25	HS21100945-25		10/15/2021 8:55:00 AM			10/21/2021 04:30 PM
^						
21101784-26	HS21100945-26		10/15/2021 12:00:00 PM			10/21/2021 04:30 PM
^						
21101784-27	HS21100945-27		10/15/2021 10:00:00 AM			10/21/2021 04:30 PM
^						
21101784-28	HS21100945-28	Water	10/15/2021 9:05:00 AM			10/21/2021 04:30 PM
^						

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-01
Collection Date: 10/15/2021 08:30 AM

Work Order: 21101784
Lab ID: 21101784-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.17		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-02
Collection Date: 10/15/2021 11:45 AM

Work Order: 21101784
Lab ID: 21101784-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.13		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-03
Collection Date: 10/15/2021 10:10 AM

Work Order: 21101784
Lab ID: 21101784-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.35		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-04
Collection Date: 10/15/2021 12:00 PM

Work Order: 21101784
Lab ID: 21101784-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.18		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-05
Collection Date: 10/15/2021 09:20 AM

Work Order: 21101784
Lab ID: 21101784-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.22		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-06
Collection Date: 10/15/2021 10:50 AM

Work Order: 21101784
Lab ID: 21101784-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.26		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-07
Collection Date: 10/15/2021 11:35 AM

Work Order: 21101784
Lab ID: 21101784-07
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.32		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-08
Collection Date: 10/15/2021 10:50 AM

Work Order: 21101784
Lab ID: 21101784-08
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.30		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-09
Collection Date: 10/15/2021 10:45 AM

Work Order: 21101784
Lab ID: 21101784-09
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.58		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-10
Collection Date: 10/15/2021 12:15 PM

Work Order: 21101784
Lab ID: 21101784-10
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.57		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-11
Collection Date: 10/15/2021 09:15 AM

Work Order: 21101784
Lab ID: 21101784-11
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.42		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-12
Collection Date: 10/15/2021 08:25 AM

Work Order: 21101784
Lab ID: 21101784-12
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.36		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-13
Collection Date: 10/15/2021 11:05 AM

Work Order: 21101784
Lab ID: 21101784-13
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.39		0.058	0.10	mg/L	1	10/21/2021 12:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-14
Collection Date: 10/15/2021 10:25 AM

Work Order: 21101784
Lab ID: 21101784-14
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.71		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-15
Collection Date: 10/15/2021 11:45 AM

Work Order: 21101784
Lab ID: 21101784-15
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.44		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-16
Collection Date: 10/15/2021 12:25 PM

Work Order: 21101784
Lab ID: 21101784-16
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.52		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-17
Collection Date: 10/15/2021 08:15 AM

Work Order: 21101784
Lab ID: 21101784-17
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.50		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-18
Collection Date: 10/15/2021 09:05 AM

Work Order: 21101784
Lab ID: 21101784-18
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.72		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-19
Collection Date: 10/15/2021 09:55 AM

Work Order: 21101784
Lab ID: 21101784-19
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.32		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-20
Collection Date: 10/15/2021 09:45 AM

Work Order: 21101784
Lab ID: 21101784-20
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.33		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-21
Collection Date: 10/15/2021 11:15 AM

Work Order: 21101784
Lab ID: 21101784-21
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.39		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-22
Collection Date: 10/15/2021 10:30 AM

Work Order: 21101784
Lab ID: 21101784-22
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.24		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-23
Collection Date: 10/15/2021 09:45 AM

Work Order: 21101784
Lab ID: 21101784-23
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.22		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-24
Collection Date: 10/15/2021 08:15 AM

Work Order: 21101784
Lab ID: 21101784-24
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.13		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-25
Collection Date: 10/15/2021 08:55 AM

Work Order: 21101784
Lab ID: 21101784-25
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.29		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-26
Collection Date: 10/15/2021 12:00 PM

Work Order: 21101784
Lab ID: 21101784-26
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.39		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-27
Collection Date: 10/15/2021 10:00 AM

Work Order: 21101784
Lab ID: 21101784-27
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.41		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 22-Oct-21

Client: ALS Environmental
Project: HS21100945
Sample ID: HS21100945-28
Collection Date: 10/15/2021 09:05 AM

Work Order: 21101784
Lab ID: 21101784-28
Matrix: WATER

Analyses	Result	Qual	SDL	MLL	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	U		0.058	0.10	mg/L	1	10/21/2021 16:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21101784
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A Fluoride	16984-48-8	0.080	0.080	0.058	0.10

Client: ALS Environmental
Work Order: 21101784
Project: HS21100945

QC BATCH REPORT

Batch ID: **R329496** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R329496-R329496				Units: mg/L		Analysis Date: 10/21/2021 12:25 PM		
Client ID:		Run ID: TITRATOR 1_211021A		SeqNo: 7861420		Prep Date:		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride U 0.10

LCS		Sample ID: LCS-R329496-R329496				Units: mg/L		Analysis Date: 10/21/2021 12:25 PM		
Client ID:		Run ID: TITRATOR 1_211021A		SeqNo: 7861421		Prep Date:		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.12 0.10 5 0 102 80-120 0

MS		Sample ID: 21101784-05A MS				Units: mg/L		Analysis Date: 10/21/2021 12:25 PM		
Client ID: HS21100945-05		Run ID: TITRATOR 1_211021A		SeqNo: 7861433		Prep Date:		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.17 0.10 5 0.22 99 75-125 0

MSD		Sample ID: 21101784-05A MSD				Units: mg/L		Analysis Date: 10/21/2021 12:25 PM		
Client ID: HS21100945-05		Run ID: TITRATOR 1_211021A		SeqNo: 7861434		Prep Date:		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 5.19 0.10 5 0.22 99.4 75-125 5.17 0.386 20

DUP		Sample ID: 21101784-09A DUP				Units: mg/L		Analysis Date: 10/21/2021 12:25 PM		
Client ID: HS21100945-09		Run ID: TITRATOR 1_211021A		SeqNo: 7861439		Prep Date:		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Fluoride 0.58 0.10 0 0 0 0-0 0.58 0 20

The following samples were analyzed in this batch:

21101784-01A	21101784-02A	21101784-03A
21101784-04A	21101784-05A	21101784-06A
21101784-07A	21101784-08A	21101784-09A
21101784-10A	21101784-11A	21101784-12A
21101784-13A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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QC Page: 1 of 2

Client: ALS Environmental
 Work Order: 21101784
 Project: HS21100945

QC BATCH REPORT

Batch ID: **R329499** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R329499-R329499				Units: mg/L		Analysis Date: 10/21/2021 04:30 PM		
Client ID:		Run ID: TITRATOR 1_211021B				SeqNo: 7861444		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	U	0.10								

LCS		Sample ID: LCS-R329499-R329499				Units: mg/L		Analysis Date: 10/21/2021 04:30 PM		
Client ID:		Run ID: TITRATOR 1_211021B				SeqNo: 7861445		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	4.88	0.10	5	0	97.6	80-120	0			

MS		Sample ID: 21101784-19AMS				Units: mg/L		Analysis Date: 10/21/2021 04:30 PM		
Client ID: HS21100945-19		Run ID: TITRATOR 1_211021B				SeqNo: 7861452		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.22	0.10	5	0.32	98	75-125	0			

MSD		Sample ID: 21101784-19AMSD				Units: mg/L		Analysis Date: 10/21/2021 04:30 PM		
Client ID: HS21100945-19		Run ID: TITRATOR 1_211021B				SeqNo: 7861453		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	5.24	0.10	5	0.32	98.4	75-125	5.22	0.382	20	

DUP		Sample ID: 21101784-20A DUP				Units: mg/L		Analysis Date: 10/21/2021 04:30 PM		
Client ID: HS21100945-20		Run ID: TITRATOR 1_211021B				SeqNo: 7861455		Prep Date:		DF: 1
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	0.33	0.10	0	0	0	0-0	0.33	0	20	

The following samples were analyzed in this batch:

21101784-14A	21101784-15A	21101784-16A
21101784-17A	21101784-18A	21101784-19A
21101784-20A	21101784-21A	21101784-22A
21101784-23A	21101784-24A	21101784-25A
21101784-26A	21101784-27A	21101784-28A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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QC Page: 2 of 2

21101784

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 17106

SUBCONTRACT TO:

ALS Environmental
3352 128th Ave
Holland, MI 49424

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact: Jumoke M. Lawal
Email: jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21100945
TSR: Sonia West

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
1. HS21100945-01	MW-39R	Groundwater	15 Oct 2021 08:30
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
2. HS21100945-02	MW-40	Groundwater	15 Oct 2021 11:45
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
3. HS21100945-03	MW-41	Groundwater	15 Oct 2021 10:10
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
4. HS21100945-04	MW-62	Groundwater	15 Oct 2021 12:00
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
5. HS21100945-05	MW-63	Groundwater	15 Oct 2021 09:20
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
6. HS21100945-06	MW-64	Groundwater	15 Oct 2021 10:50
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
7. HS21100945-07	MW-23R	Groundwater	15 Oct 2021 11:35
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
8. HS21100945-08	MW-28D	Groundwater	15 Oct 2021 10:50
Fluoride by ISE 4500. Equis EDD			22 Oct 2021
9. HS21100945-09	MW-42	Groundwater	15 Oct 2021 10:45

RIGHT SOLUTIONS | RIGHT PARTNER

15 Oct, 2021

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Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 17106

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
ANALYSIS REQUESTED			DUE DATE
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
10.	HS21100945-10 MW-43	Groundwater	15 Oct 2021 12:15
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
11.	HS21100945-11 MW-44	Groundwater	15 Oct 2021 09:15
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
12.	HS21100945-12 MW-46R	Groundwater	15 Oct 2021 08:25
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
13.	HS21100945-13 MW-47	Groundwater	15 Oct 2021 11:05
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
14.	HS21100945-14 MW-48	Groundwater	15 Oct 2021 10:25
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
15.	HS21100945-15 MW-50	Groundwater	15 Oct 2021 11:45
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
16.	HS21100945-16 MW-52	Groundwater	15 Oct 2021 12:25
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
17.	HS21100945-17 MW-54	Groundwater	15 Oct 2021 08:15
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
18.	HS21100945-18 MW-55R	Groundwater	15 Oct 2021 09:05
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
19.	HS21100945-19 MW-58	Groundwater	15 Oct 2021 09:55
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
20.	HS21100945-20 MW-65	Groundwater	15 Oct 2021 09:45
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
21.	HS21100945-21 MW-36	Groundwater	15 Oct 2021 11:15
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
22.	HS21100945-22 MW-37	Groundwater	15 Oct 2021 10:30
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
23.	HS21100945-23 MW-38R	Groundwater	15 Oct 2021 09:45
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021
24.	HS21100945-24 MW-60	Groundwater	15 Oct 2021 08:15
	Fluoride by ISE 4500. Equis EDD		22 Oct 2021

15 Oct 2021

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Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **19-Oct-21 16:00**

Work Order: **21101784**

Received by: **DS**

Checklist completed by Diane Shaw 20-Oct-21
eSignature Date

Reviewed by: Chad Whelton 20-Oct-21
eSignature Date

Matrices: Groundwater

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 3.3/4.3 c IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 10/20/2021 3:47:06 PM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 15, 2021

Lori Burris
TRC Corporation
14701 St. Mary's Lane
Suite 500
Houston, TX 77079

Work Order: **HS21120431**

Laboratory Results for: **NRG WA Parish**

Dear Lori Burris,

ALS Environmental received 10 sample(s) on Dec 07, 2021 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL

Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Corey Grandits
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group		LRC Date: 12/15/2021					
Project Name: NRG WA Parish		Laboratory Job Number: HS21120431					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 173410,R397546,R397567,R397585					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				2
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group		LRC Date: 12/15/2021					
Project Name: NRG WA Parish		Laboratory Job Number: HS21120431					
Reviewer Name: Corey Grandits		Prep Batch Number(s): 173410,R397546,R397567,R397585					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			3
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSS?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 12/15/2021
Project Name: NRG WA Parish		Laboratory Job Number: HS21120431
Reviewer Name: Corey Grandits		Prep Batch Number(s): 173410,R397546,R397567,R397585
ER# ⁵	Description	
1	<p>Batch 173410, Metals Method SW6020, sample MW-40, MS and MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R397546, Anions Method E300, sample MW-63, MSD recovered outside the control limit for Chloride and Sulfate, however, the result in the parent sample is greater than 4x the spike amount for Sulfate</p>	
2	The analysis for fluoride was subcontracted to ALS Holland, MI. Report and Laboratory Review Checklist are attached to the final report	
3	See Run Log and CCB Exceptions Report.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

FORM 13 - ANALYSIS RUN LOG**Client:** TRC Corporation

Run ID:ICS-Integrion_397546

Project: NRG WA Parish

Instrument:ICS-Integrion

WorkOrder: HS21120431

Method:E300

Start Date: 13-Dec-2021

End Date: 14-Dec-2021

Sample No.	D/F	Time	FileID	Analytes
CCV 1	1	13-Dec-2021 11:07		CL SO4
CCB 1	1	13-Dec-2021 11:14		CL SO4
MBLK	1	13-Dec-2021 11:37		CL SO4
LCS	1	13-Dec-2021 11:45		CL SO4
CCB 2	1	13-Dec-2021 13:10		CL SO4
CCV 2	1	13-Dec-2021 17:40		CL SO4
CCB 3	1	13-Dec-2021 17:55		CL SO4
MW-63	10	13-Dec-2021 18:33		SO4
MW-63MS	10	13-Dec-2021 18:40		CL SO4
MW-63MSD	10	13-Dec-2021 18:48		CL SO4
MW-36	10	13-Dec-2021 18:55		SO4
MW-37	50	13-Dec-2021 19:03		SO4
MW-38R	20	13-Dec-2021 19:10		SO4
CCB 4	1	13-Dec-2021 19:33		CL SO4
MW-61	20	13-Dec-2021 19:41		SO4
MW-23R	20	13-Dec-2021 19:48		CL SO4
ZZZZZMS	1	13-Dec-2021 20:18		CL SO4
ZZZZZMSD	1	13-Dec-2021 20:26		CL SO4
CCV 3	1	13-Dec-2021 20:56		CL SO4
CCB 5	1	13-Dec-2021 21:11		CL SO4
CCB 6	1	13-Dec-2021 22:49		CL SO4
CCV 4	1	14-Dec-2021 00:19		CL SO4
CCB 7	1	14-Dec-2021 00:26		CL SO4
CCB 8	1	14-Dec-2021 01:50		CL SO4
CCB 9	1	14-Dec-2021 08:14		CL SO4
MW-58	10	14-Dec-2021 09:34		SO4
CCV 5	1	14-Dec-2021 09:49		CL SO4
CCB 10	1	14-Dec-2021 09:56		CL SO4

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

Run ID:ICS-Integrion_397546
Instrument:ICS-Integrion
Method:E300

CCB 9	Date: 14-Dec-2021 08:14	Seq: 6419711	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Sulfate	200.5	200	500

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation

Run ID:ICPMS06_397400

Project: NRG WA Parish

Instrument:ICPMS06

WorkOrder: HS21120431

Method:SW6020A

Start Date: 10-Dec-2021

End Date: 10-Dec-2021

Sample No.	D/F	Time	FileID	Analyses
ICV	1	10-Dec-2021 13:11	013_ICV.d	B CA
LLICV2	1	10-Dec-2021 13:12	014LCV2.d	B CA
LLICV5	1	10-Dec-2021 13:14	015LCV5.d	B CA
ICB	1	10-Dec-2021 13:16	016_ICB.d	B CA
ICSA	1	10-Dec-2021 13:18	017ICSA.d	B CA
ICSAB	1	10-Dec-2021 13:20	018ICSB.d	B CA
CCV 1	1	10-Dec-2021 13:55	021_CCV.d	B CA
CCB 1	1	10-Dec-2021 13:57	022_CCB.d	B CA
CCV 2	1	10-Dec-2021 14:27	033_CCV.d	B CA
CCB 2	1	10-Dec-2021 14:29	034_CCB.d	B CA
CCV 3	1	10-Dec-2021 14:53	045_CCV.d	B CA
CCB 3	1	10-Dec-2021 14:55	046_CCB.d	B CA
CCV 4	1	10-Dec-2021 15:20	057_CCV.d	B CA
CCB 4	1	10-Dec-2021 15:22	058_CCB.d	B CA
CCV 5	1	10-Dec-2021 15:47	069_CCV.d	B CA
CCB 5	1	10-Dec-2021 15:48	070_CCB.d	B CA
CCV 6	1	10-Dec-2021 16:15	081_CCV.d	B CA
CCB 6	1	10-Dec-2021 16:17	082_CCB.d	B CA
CCV 7	1	10-Dec-2021 16:40	093_CCV.d	B CA
CCB 7	1	10-Dec-2021 16:42	094_CCB.d	B CA
CCV 8	1	10-Dec-2021 16:58	099_CCV.d	B CA
CCB 8	1	10-Dec-2021 17:00	100_CCB.d	B CA
CCV 9	1	10-Dec-2021 17:21	111_CCV.d	B CA
CCB 9	1	10-Dec-2021 17:23	112_CCB.d	B CA
CCV 10	1	10-Dec-2021 17:45	123_CCV.d	B CA
CCB 10	1	10-Dec-2021 17:47	124_CCB.d	B CA
CCV 11	1	10-Dec-2021 19:46	129_CCV.d	B CA
CCB 11	1	10-Dec-2021 19:48	130_CCB.d	B CA
CCV 12	1	10-Dec-2021 20:04	138_CCV.d	B CA
CCB 12	1	10-Dec-2021 20:06	139_CCB.d	B CA
CCV 13	1	10-Dec-2021 20:24	148_CCV.d	B CA
CCB 13	1	10-Dec-2021 20:25	149_CCB.d	B CA
CCV 14	1	10-Dec-2021 21:19	176_CCV.d	B CA
CCB 14	1	10-Dec-2021 21:21	177_CCB.d	B CA
CCV 15	1	10-Dec-2021 21:41	187_CCV.d	B CA
CCB 15	1	10-Dec-2021 21:43	188_CCB.d	B CA
CCV 16	1	10-Dec-2021 21:56	195_CCV.d	B CA
CCB 16	1	10-Dec-2021 21:58	196_CCB.d	B CA
CCV 17	1	10-Dec-2021 22:12	203_CCV.d	B CA
CCB 17	1	10-Dec-2021 22:14	204_CCB.d	B CA
LCS-173410	1	10-Dec-2021 22:18	206SMPL.d	B CA
MW-40SD	5	10-Dec-2021 22:24	209SMPL.d	
MW-40MS	1	10-Dec-2021 22:26	210SMPL.d	B CA
MW-40MSD	1	10-Dec-2021 22:28	211SMPL.d	B CA
MW-40PDS	1	10-Dec-2021 22:30	212SMPL.d	
CCV 18	1	10-Dec-2021 22:32	213_CCV.d	B CA
CCB 18	1	10-Dec-2021 22:34	214_CCB.d	B CA
CCV 19	1	10-Dec-2021 22:50	221_CCV.d	B CA
CCB 19	1	10-Dec-2021 22:52	222_CCB.d	B CA
CCB 20	1	10-Dec-2021 23:14	233_CCB.d	B CA

Privileged and Confidential

FORM 13 - ANALYSIS RUN LOG**Client:** TRC Corporation**Project:** NRG WA Parish**WorkOrder:** HS21120431

Start Date: 10-Dec-2021

End Date: 10-Dec-2021

Run ID:ICPMS06_397400

Instrument:ICPMS06

Method:SW6020A

Sample No.	D/F	Time	FileID	Analytes
CCV 20	1	10-Dec-2021 23:16	234_CCV.d	B CA
MW-63	10	10-Dec-2021 23:18	235SMPL.d	B
MW-37	10	10-Dec-2021 23:20	236SMPL.d	B
MW-38R	10	10-Dec-2021 23:22	237SMPL.d	B
MW-61	10	10-Dec-2021 23:24	238SMPL.d	B
MW-23R	10	10-Dec-2021 23:26	239SMPL.d	CA
MW-58	10	10-Dec-2021 23:28	240SMPL.d	B
CCV 21	1	10-Dec-2021 23:32	242_CCV.d	B CA
CCB 21	1	10-Dec-2021 23:34	243_CCB.d	B CA
CCV 22	1	10-Dec-2021 23:40	246_CCV.d	B CA
CCB 22	1	10-Dec-2021 23:42	247_CCB.d	B CA
LLCCV2	1	10-Dec-2021 23:44	248LCV2.d	B CA
LLCCV5	1	10-Dec-2021 23:46	249LCV5.d	B CA
ICSA	1	10-Dec-2021 23:48	250ICSA.d	B CA
ICSAB	1	10-Dec-2021 23:50	251ICSB.d	B CA

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

Run ID:ICPMS06_397400
Instrument:ICPMS06
Method:SW6020A

CCB	Date	Seq	D/F	Units
CCB 3	10-Dec-2021 14:55	6415930	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	21.28	11	20
CCB 4	10-Dec-2021 15:22	6416149	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	14.04	11	20
CCB 9	10-Dec-2021 17:23	6416696	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	17.72	11	20
CCB 13	10-Dec-2021 20:25	6416733	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	14.84	11	20
CCB 14	10-Dec-2021 21:21	6416736	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	75.64	11	20
CCB 15	10-Dec-2021 21:43	6416747	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	68.42	11	20
CCB 16	10-Dec-2021 21:58	6416755	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	52.38	11	20
CCB 17	10-Dec-2021 22:14	6416763	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	43.54	11	20
CCB 18	10-Dec-2021 22:34	6416773	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	37.38	11	20
CCB 19	10-Dec-2021 22:52	6416781	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	31.13	11	20
CCB 20	10-Dec-2021 23:14	6416792	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	29.31	11	20
CCB 21	10-Dec-2021 23:34	6416802	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	20.89	11	20
CCB 22	10-Dec-2021 23:42	6416806	1	ug/L
	Analyte	Result	MDL	Report Limit
	Boron	23.99	11	20

Client: TRC Corporation
Project: NRG WA Parish
Work Order: HS21120431

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS21120431-01	MW-40	Water		07-Dec-2021 08:15	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-02	MW-41	Water		07-Dec-2021 09:30	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-03	MW-63	Water		07-Dec-2021 10:10	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-04	MW-64	Water		07-Dec-2021 08:50	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-05	MW-36	Water		07-Dec-2021 10:25	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-06	MW-37	Water		07-Dec-2021 09:45	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-07	MW-38R	Water		07-Dec-2021 09:05	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-08	MW-61	Water		07-Dec-2021 08:25	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-09	MW-23R	Water		07-Dec-2021 11:20	07-Dec-2021 13:10	<input type="checkbox"/>
HS21120431-10	MW-58	Water		07-Dec-2021 12:05	07-Dec-2021 13:10	<input type="checkbox"/>

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-40
 Collection Date: 07-Dec-2021 08:15

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A			Prep:SW3010A / 10-Dec-2021		Analyst: JHD
Calcium	307		0.680	10.0	mg/L	20	13-Dec-2021 12:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-41
 Collection Date: 07-Dec-2021 09:30

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-02
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA		Analyst: SUBHO			
Subcontract Analysis	See Attached		0			1	14-Dec-2021 13:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-63
 Collection Date: 07-Dec-2021 10:10

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-03
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Boron	0.424		0.110	0.200	mg/L	10	10-Dec-2021 23:18
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Sulfate	425		2.00	5.00	mg/L	10	13-Dec-2021 18:33
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA				Analyst: SUBHO	
Subcontract Analysis	See Attached		0			1	14-Dec-2021 13:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-64
 Collection Date: 07-Dec-2021 08:50

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-04
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - FLOURIDE		Method:NA		Analyst: SUBHO			
Subcontract Analysis	See Attached		0			1	14-Dec-2021 13:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-36
 Collection Date: 07-Dec-2021 10:25

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-05
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: YP			
Sulfate	369		2.00	5.00	mg/L	10	13-Dec-2021 18:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-37
 Collection Date: 07-Dec-2021 09:45

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-06
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Boron	0.585		0.110	0.200	mg/L	10	10-Dec-2021 23:20
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Sulfate	882		10.0	25.0	mg/L	50	13-Dec-2021 19:03
TOTAL DISSOLVED SOLIDS BY SM2540C-2011		Method:M2540C				Analyst: KAH	
Total Dissolved Solids (Residue, Filterable)	2,160		5.00	10.0	mg/L	1	13-Dec-2021 17:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-38R
 Collection Date: 07-Dec-2021 09:05

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-07
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Boron	0.593		0.110	0.200	mg/L	10	10-Dec-2021 23:22
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Sulfate	575		4.00	10.0	mg/L	20	13-Dec-2021 19:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-61
 Collection Date: 07-Dec-2021 08:25

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-08
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Boron	1.25		0.110	0.200	mg/L	10	10-Dec-2021 23:24
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Sulfate	743		4.00	10.0	mg/L	20	13-Dec-2021 19:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
Project: NRG WA Parish
Sample ID: MW-23R
Collection Date: 07-Dec-2021 11:20

ANALYTICAL REPORT
WorkOrder:HS21120431
Lab ID:HS21120431-09
Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Calcium	436		0.340	5.00	mg/L	10	10-Dec-2021 23:26
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Chloride	947		4.00	10.0	mg/L	20	13-Dec-2021 19:48
Sulfate	1,060		4.00	10.0	mg/L	20	13-Dec-2021 19:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: TRC Corporation
 Project: NRG WA Parish
 Sample ID: MW-58
 Collection Date: 07-Dec-2021 12:05

ANALYTICAL REPORT

WorkOrder:HS21120431
 Lab ID:HS21120431-10
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020A		Prep:SW3010A / 10-Dec-2021		Analyst: JHD	
Boron	0.697		0.110	0.200	mg/L	10	10-Dec-2021 23:28
ANIONS BY E300.0, REV 2.1, 1993		Method:E300				Analyst: YP	
Sulfate	165		2.00	5.00	mg/L	10	14-Dec-2021 09:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation

Project: NRG WA Parish

WorkOrder: HS21120431

Batch ID: 173410

Start Date: 10 Dec 2021 12:00

End Date: 10 Dec 2021 16:00

Method: WATER - SW3010A

Prep Code: 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS21120431-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS21120431-10		10 (mL)	10 (mL)	1	120 plastic HNO3

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 173410 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS21120431-01	MW-40	07 Dec 2021 08:15		10 Dec 2021 16:00	13 Dec 2021 12:18	20
HS21120431-03	MW-63	07 Dec 2021 10:10		10 Dec 2021 16:00	10 Dec 2021 23:18	10
HS21120431-06	MW-37	07 Dec 2021 09:45		10 Dec 2021 16:00	10 Dec 2021 23:20	10
HS21120431-07	MW-38R	07 Dec 2021 09:05		10 Dec 2021 16:00	10 Dec 2021 23:22	10
HS21120431-08	MW-61	07 Dec 2021 08:25		10 Dec 2021 16:00	10 Dec 2021 23:24	10
HS21120431-09	MW-23R	07 Dec 2021 11:20		10 Dec 2021 16:00	10 Dec 2021 23:26	10
HS21120431-10	MW-58	07 Dec 2021 12:05		10 Dec 2021 16:00	10 Dec 2021 23:28	10
Batch ID: R397546 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS21120431-03	MW-63	07 Dec 2021 10:10			13 Dec 2021 18:33	10
HS21120431-05	MW-36	07 Dec 2021 10:25			13 Dec 2021 18:55	10
HS21120431-06	MW-37	07 Dec 2021 09:45			13 Dec 2021 19:03	50
HS21120431-07	MW-38R	07 Dec 2021 09:05			13 Dec 2021 19:10	20
HS21120431-08	MW-61	07 Dec 2021 08:25			13 Dec 2021 19:41	20
HS21120431-09	MW-23R	07 Dec 2021 11:20			13 Dec 2021 19:48	20
HS21120431-10	MW-58	07 Dec 2021 12:05			14 Dec 2021 09:34	10
Batch ID: R397567 (0)		Test Name : SUBCONTRACT ANALYSIS - FLOURIDE			Matrix: Water	
HS21120431-02	MW-41	07 Dec 2021 09:30			14 Dec 2021 13:20	1
HS21120431-03	MW-63	07 Dec 2021 10:10			14 Dec 2021 13:20	1
HS21120431-04	MW-64	07 Dec 2021 08:50			14 Dec 2021 13:20	1
Batch ID: R397585 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS21120431-06	MW-37	07 Dec 2021 09:45			13 Dec 2021 17:20	1

WorkOrder: HS21120431
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020A
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Boron	7440-42-8	0.0125	0.0220	0.0110	0.0200
A	Calcium	7440-70-2	0.0500	0.0985	0.0340	0.500

WorkOrder: HS21120431
 InstrumentID: ICS-Integrion
 Test Code: 300_W
 Test Number: E300
 Test Name: Anions by E300.0, Rev 2.1, 1993

METHOD DETECTION / REPORTING LIMITS
Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Chloride	16887-00-6	0.500	0.364	0.200	0.500
A	Sulfate	14808-79-8	0.500	0.173	0.200	0.500

WorkOrder: HS21120431 **METHOD DETECTION / REPORTING LIMITS**
 InstrumentID: Balance1
 Test Code: TDS_W 2540C
 Test Number: M2540C **Matrix:** Aqueous **Units:** mg/L
 Test Name: Total Dissolved Solids by SM2540C

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Total Dissolved Solids (Residue, Filterable)	TDS	5.00	8.00	5.00	10.0

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

QC BATCH REPORT

Batch ID: 173410 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-173410	Units: mg/L			Analysis Date: 13-Dec-2021 12:04					
Client ID:		Run ID: ICPMS06_397490	SeqNo: 6418178	PrepDate: 10-Dec-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	< 0.0110	0.0200								
Calcium	< 0.0340	0.500								
LCS	Sample ID: LCS-173410	Units: mg/L			Analysis Date: 10-Dec-2021 22:18					
Client ID:		Run ID: ICPMS06_397400	SeqNo: 6416765	PrepDate: 10-Dec-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.5294	0.0200	0.5	0	106	80 - 120				
Calcium	4.599	0.500	5	0	92.0	80 - 120				
MS	Sample ID: HS21120431-01MS	Units: mg/L			Analysis Date: 10-Dec-2021 22:26					
Client ID: MW-40		Run ID: ICPMS06_397400	SeqNo: 6416769	PrepDate: 10-Dec-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.6305	0.0200	0.5	0.1225	102	80 - 120				
Calcium	265.6	0.500	5	271.5	-117	80 - 120			SEO	
MSD	Sample ID: HS21120431-01MSD	Units: mg/L			Analysis Date: 10-Dec-2021 22:28					
Client ID: MW-40		Run ID: ICPMS06_397400	SeqNo: 6416770	PrepDate: 10-Dec-2021	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Boron	0.6358	0.0200	0.5	0.1225	103	80 - 120	0.6305	0.839	20	
Calcium	274.7	0.500	5	271.5	64.2	80 - 120	265.6	3.36	20 SEO	
PDS	Sample ID: HS21120431-01PDS	Units: mg/L			Analysis Date: 13-Dec-2021 14:16					
Client ID: MW-40		Run ID: ICPMS06_397490	SeqNo: 6418432	PrepDate: 10-Dec-2021	DF: 20					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Calcium	547.6	10.0	200	306.8	120	75 - 125				

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

QC BATCH REPORT

Batch ID: 173410 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
-------------------------------	----------------------------	---

SD	Sample ID: HS21120431-01SD	Units: mg/L	Analysis Date: 13-Dec-2021 12:20							
Client ID: MW-40	Run ID: ICPMS06_397490	SeqNo: 6418181	PrepDate: 10-Dec-2021 DF: 100							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit	Qual

Calcium	313.3	50.0					306.8	2.13	10
---------	-------	------	--	--	--	--	-------	------	----

The following samples were analyzed in this batch:	HS21120431-01	HS21120431-03	HS21120431-06	HS21120431-07
	HS21120431-08	HS21120431-09	HS21120431-10	

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

QC BATCH REPORT

Batch ID: R397546 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MBLK	Sample ID: MBLK	Units: mg/L			Analysis Date: 13-Dec-2021 11:37					
Client ID:		Run ID: ICS-Integrion_397546		SeqNo: 6419674		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 0.200	0.500								
Sulfate	< 0.200	0.500								
LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 13-Dec-2021 11:45					
Client ID:		Run ID: ICS-Integrion_397546		SeqNo: 6419675		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.42	0.500	20	0	97.1	90 - 110				
Sulfate	19.61	0.500	20	0	98.1	90 - 110				
MS	Sample ID: HS21120730-01MS	Units: mg/L			Analysis Date: 13-Dec-2021 20:18					
Client ID:		Run ID: ICS-Integrion_397546		SeqNo: 6419693		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.74	0.500	10	56.1	116	80 - 120				O
Sulfate	42.8	0.500	10	31.61	112	80 - 120				
MS	Sample ID: HS21120431-03MS	Units: mg/L			Analysis Date: 13-Dec-2021 18:40					
Client ID: MW-63		Run ID: ICS-Integrion_397546		SeqNo: 6419681		PrepDate:		DF: 10		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	461	5.00	100	363.1	97.9	80 - 120				
Sulfate	522	5.00	100	424.6	97.3	80 - 120				O
MSD	Sample ID: HS21120730-01MSD	Units: mg/L			Analysis Date: 13-Dec-2021 20:26					
Client ID:		Run ID: ICS-Integrion_397546		SeqNo: 6419694		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.88	0.500	10	56.1	118	80 - 120	67.74	0.202	20	O
Sulfate	42.98	0.500	10	31.61	114	80 - 120	42.8	0.416	20	

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

QC BATCH REPORT

Batch ID: R397546 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

MSD Sample ID: **HS21120431-03MSD** Units: **mg/L** Analysis Date: **13-Dec-2021 18:48**
Client ID: **MW-63** Run ID: **ICS-Integrion_397546** SeqNo: **6419682** PrepDate: DF: **10**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%RPD** **RPD Limit** **Qual**

Chloride	437.1	5.00	100	363.1	74.0	80 - 120	461	5.33	20	S
Sulfate	494.6	5.00	100	424.6	70.0	80 - 120	522	5.38	20	SO

The following samples were analyzed in this batch:

HS21120431-03	HS21120431-05	HS21120431-06	HS21120431-07
HS21120431-08	HS21120431-09	HS21120431-10	

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

QC BATCH REPORT

Batch ID: R397585 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-121321	Units: mg/L		Analysis Date: 13-Dec-2021 17:20						
Client ID:	Run ID: Balance1_397585	SeqNo: 6420411		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		< 5.00	10.0							
LCS	Sample ID: WLCS-121321	Units: mg/L		Analysis Date: 13-Dec-2021 17:20						
Client ID:	Run ID: Balance1_397585	SeqNo: 6420412		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1050	10.0	1000	0	105	85 - 115			
DUP	Sample ID: HS21120514-06DUP	Units: mg/L		Analysis Date: 13-Dec-2021 17:20						
Client ID:	Run ID: Balance1_397585	SeqNo: 6420408		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		168300	10.0				171100	1.69	5	
DUP	Sample ID: HS21120285-01DUP	Units: mg/L		Analysis Date: 13-Dec-2021 17:20						
Client ID:	Run ID: Balance1_397585	SeqNo: 6420390		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Total Dissolved Solids (Residue, Filterable)		1196	10.0				1236	3.29	5	

The following samples were analyzed in this batch: HS21120431-06

Client: TRC Corporation
Project: NRG WA Parish
WorkOrder: HS21120431

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	21-022-0	26-Mar-2022
Dept of Defense	PJLA L20-507-R2	22-Dec-2021
Florida	E87611-33	30-Jun-2022
Illinois	2000322021-7	09-May-2022
Kansas	E-10352 2021-2022	31-Jul-2022
Kentucky	123043, 2021-2022	30-Apr-2022
Louisiana	03087, 2021-2022	30-Jun-2022
North Carolina	624-2021	31-Dec-2021
Texas	T104704231-21-28	30-Apr-2022

Sample Receipt Checklist

Work Order ID: HS21120431

Date/Time Received: 07-Dec-2021 13:10

Client Name: TRC-HOU

Received by: Jared R. Makan

Completed By: /S/ Pablo Marinez	08-Dec-2021 16:41	Reviewed by: /S/ Corey Grandits	09-Dec-2021 16:03
eSignature	Date/Time	eSignature	Date/Time

Matrices: WATER

Carrier name: Client

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:255984
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	0.8°C UC/C	IR 31
Cooler(s)/Kit(s):	47754	
Date/Time sample(s) sent to storage:	12/8/21 16:45	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

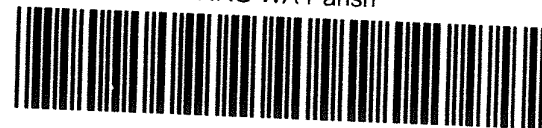
Chain of Custody Form

Page 1 of 1

COC ID: 255984

HS21120431

TRC Corporation
NRG WA Parish



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	161254	Project Name	NRG WA Parish	A	300_W (SO4)
Work Order		Project Number		B	ICP_TW (Boron)
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C	ICP_TW (Calcium)
Send Report To	Lori Burris	Invoice Attn	A/P	D	Sub Fluoride SM4500F-C to ALS Michigan
Address	14701 St. Mary's Lane Suite 500	Address	14701 St. Mary's Lane Suite 500	E	TDS_W 2540C (TDS)
				F	300_W (Chloride)
City/State/Zip	Houston, TX 77079	City/State/Zip	Houston TX 77079	G	
Phone	(713) 244-1000	Phone	(713) 244-1000	H	
Fax	(713) 244-1099	Fax	(713) 244-1099	I	
e-Mail Address	LBurris@trcsolutions.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J	


No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-40	12-7-21	815	Water	2	1			X								
2	MW-41		930	Water	8	1					X						
3	MW-63		1010	Water	2.8	3		X	X		X						
4	MW-64		850	Water	8	1					X						
5	MW-36		1025	Water	8	1		X									
6	MW-37		945	Water	2.8	2		X	X			X					
7	MW-38R		905	Water	2.8	2		X	X								
8	MW-61		825	Water	2.8	2		X	X								
9	MW-23R		1120	Water	2.8	2		X		X			X				
0	MW-58		1205	Water	2.8	2		X	X								

Sampler(s) Please Print & Sign
 Brian Hillin + HMI Team
 Date: 12-7-21 Time: 13:10
 Shipment Method: Drop off @ lab
 Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour
 Results Due Date:
 Received by: J. Mac...
 Notes: NRG WA Parish - State Program
 Cooler ID: 47754 Cooler Temp: 0.8°C
 QC Package: (Check One Box Below)
 Level II Std QC TRRP Checklist
 Level III Std QC/Raw Date TRRP Level IV
 Level IV SW046/CLP
 Other

Reservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	47754	CUSTODY SEAL		Seal Broken By: SM
		Date: 12-7-21	Time: 1235	Date: 12/07/21
		Name: Brian Hillin	Company: HME for TPC	

47754

DEC 07 2021



14-Dec-2021

Corey Grandits
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Re: **HS21120431**

Work Order: **21120930**

Dear Corey,

ALS Environmental received 3 samples on 09-Dec-2021 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a light blue horizontal line.

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

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RIGHT SOLUTIONS FROM PARTNER

Client: ALS Environmental
Project: HS21120431
Work Order: 21120930

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory case narrative, and the following reportable data:

- R1 Field chain-of-custody documentation:
- R2 Sample identification cross-reference
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies:
See Case Narrative.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached Case Narrative and QC Summaries. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified, and no information affecting the quality of the data has been knowingly withheld.

Chad Whelton

Chad Whelton
Project Manager

Privileged and Confidential

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number: TITRATOR1_211213B	Instrument ID: Mantech Autotitrator				
Method: FL_4500C_W		Work order Number (s): 21120930					
Analyst Name: KC		Date 12/13/21	Reviewer Name: JB		Date: 12/14/21		
	A ¹	Description	Yes	No	NA ₂	NR ³	ER# ⁴
R1	I	Chain-of-Custody					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?			X		
		2) Were all departures from standard conditions described in an exception report?			X		
R2	I	SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?			X		
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?			X		
R3	I	TEST REPORTS					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Was % moisture (or solids) reported for all soil and sediment samples?			X		
		8) If required for the project, TICs reported?			X		
R4	I	SURROGATE RECOVERY DATA					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	I	TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < ½ MQL?	X				
R6	I	LABORATORY CONTROL SAMPLES (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS and LCSD %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits?	X				
R7	I	MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA					
		1) Were the project or method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS and MSD %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	I	ANALYTICAL DUPLICATE DATA (IF REQUIRED)					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	I	METHOD QUANTITATION LIMITS (MQLS):					
		1) Are the MQLs for each method analyte listed and included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?			X		
R10	I	OTHER PROBLEMS/ANOMALIES					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) If requested, is the justification for elevated SQLs documented?			X		

S1	I	INITIAL CALIBRATION (ICAL)					
		1) Were response factors (RFs) and/or relative response factors (RRFs) for each analyte within the QC limits?			X		
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	I	INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the organic CCB < MDL?	X				
S3	I	MASS SPECTRAL TUNING:					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	I	INTERNAL STANDARDS (IS):					
		Were IS area counts within the method-required QC limits?			X		
S5	I	RAW DATA					
		1) Were the raw data (e.g., chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	I	DUAL COLUMN CONFIRMATION (IF REQUIRED)					
		Did dual column confirmation results meet the method-required QC?			X		
S7	I	TENTATIVELY IDENTIFIED COMPOUNDS (TICS):					
		If TICS were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	INTERFERENCE CHECK SAMPLE (ICS) RESULTS:					
		Were percent recoveries within method QC limits?			X		
S9	I	SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	I	PROFICIENCY TEST REPORTS:					
		Are proficiency testing or inter-laboratory comparison results on file?	X				
S11	I	METHOD DETECTION LIMIT (MDL) STUDIES					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S12	I	STANDARDS DOCUMENTATION					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	I	COMPOUND/ANALYTE IDENTIFICATION PROCEDURES					
		Are the procedures for compound/analyte identification documented?	X				
S14	I	DEMONSTRATION OF ANALYST COMPETENCY (DOC)					
		1) Was DOC conducted consistent with NELAC 5C or ISO/IEC 4.2.2?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	I	VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS					
		Are all the methods used to generate the data documented, verified, and validated, where applicable, (NELAC 5.10.2 or ISO/IEC 17025 Section 5.4.5)?	X				
S16	I	LABORATORY STANDARD OPERATING PROCEDURES (SOPS):					
		Are laboratory SOPs current and on file for each method performed?	X				

1 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

2 NA = Not applicable.

3 NR = Not Reviewed.

4 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

WET CHEMISTRY DATA ASSESSMENT CHECKLIST

Wet Chemistry		Batch Number:	
ER # ¹	DESCRIPTION		
1	No exceptions		

- 1 ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked on the LRC)

Client: ALS Environmental
Project: HS21120431
Work Order: 21120930

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21120930-01	MW-41	Water	HS21120431-02	12/7/2021 09:30	12/9/2021 16:30	<input type="checkbox"/>
21120930-02	MW-63	Water	HS21120431-03	12/7/2021 10:10	12/9/2021 16:30	<input type="checkbox"/>
21120930-03	MW-64	Water	HS21120431-04	12/7/2021 08:50	12/9/2021 16:30	<input type="checkbox"/>

Client: ALS Environmental
Project: HS21120431
WorkOrder: 21120930

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Work Order: 21120930
 Client: ALS Environmental
 Project: HS21120431

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R334334 Test Name: Fluoride						
21120930-01	MW-41	Water	12/7/2021 9:30:00 AM			12/13/2021 06:16 PM
^						
21120930-02	MW-63		12/7/2021 10:10:00 AM			12/13/2021 06:16 PM
^						
21120930-03	MW-64		12/7/2021 8:50:00 AM			12/13/2021 06:16 PM
^						

ALS Group, USA

Date: 14-Dec-21

Client: ALS Environmental
Project: HS21120431
Sample ID: MW-41
Collection Date: 12/7/2021 09:30 AM

Work Order: 21120930
Lab ID: 21120930-01
Matrix: WATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.29		0.058	0.10	mg/L	1	12/13/2021 18:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Dec-21

Client: ALS Environmental
Project: HS21120431
Sample ID: MW-63
Collection Date: 12/7/2021 10:10 AM

Work Order: 21120930
Lab ID: 21120930-02
Matrix: WATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.15		0.058	0.10	mg/L	1	12/13/2021 18:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Dec-21

Client: ALS Environmental
Project: HS21120431
Sample ID: MW-64
Collection Date: 12/7/2021 08:50 AM

Work Order: 21120930
Lab ID: 21120930-03
Matrix: WATER

Analyses	Result	Qual	SDL	ML	Units	Dilution Factor	Date Analyzed
FLUORIDE			Method: A4500-F C-11				Analyst: KNC
Fluoride	0.24		0.058	0.10	mg/L	1	12/13/2021 18:16

Note: See Qualifiers page for a list of qualifiers and their definitions.

WorkOrder: 21120930
InstrumentID: Titrator 1
Test Code: FL_4500C_W
Test Number: A4500-F C-11
Test Name: Fluoride

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Water Units: mg/L

Type Analyte	CAS	DCS Spike	DCS	MDL	Unadjusted MQL
A Fluoride	16984-48-8	0.080	0.080	0.058	0.10

Client: ALS Environmental
Work Order: 21120930
Project: HS21120431

QC BATCH REPORT

Batch ID: **R334334** Instrument ID **Titrator 1** Method: **A4500-F C-11**

MBLK		Sample ID: MB-R334334-R334334				Units: mg/L		Analysis Date: 12/13/2021 06:16 PM			
Client ID:		Run ID: TITRATOR 1_211213B				SeqNo: 8024103		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	U	0.10									

LCS		Sample ID: LCS-R334334-R334334				Units: mg/L		Analysis Date: 12/13/2021 06:16 PM			
Client ID:		Run ID: TITRATOR 1_211213B				SeqNo: 8024104		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	4.98	0.10	5	0	99.6	80-120	0				

MS		Sample ID: 21120930-01A MS				Units: mg/L		Analysis Date: 12/13/2021 06:16 PM			
Client ID: MW-41		Run ID: TITRATOR 1_211213B				SeqNo: 8024108		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5.37	0.10	5	0.29	102	75-125	0				

MSD		Sample ID: 21120930-01A MSD				Units: mg/L		Analysis Date: 12/13/2021 06:16 PM			
Client ID: MW-41		Run ID: TITRATOR 1_211213B				SeqNo: 8024109		Prep Date:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5.42	0.10	5	0.29	103	75-125	5.37	0.927	20		

The following samples were analyzed in this batch: 21120930-01A 21120930-02A 21120930-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

21120930



10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 17606

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company: ALS Houston
Contact: Corey Grandits
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Email: Corey.Grandits@alsglobal.com
Alternate Contact:
Email:

INVOICE INFORMATION:

Company: ALS Houston
Contact: Accounts Payable
Address: 10450 Stancliff Rd, Ste 210
Phone: +1 281 530 5656
Reference: HS21120431
TSR: Ron Martino

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	HS21120431-02	MW-41	Water	07 Dec 2021 09:30
	Fluoride by ISE 4500. Equis EDD			14 Dec 2021
2.	HS21120431-03	MW-63	Water	07 Dec 2021 10:10
	Fluoride by ISE 4500. Equis EDD			14 Dec 2021
3.	HS21120431-04	MW-64	Water	07 Dec 2021 08:50
	Fluoride by ISE 4500. Equis EDD			14 Dec 2021

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
~~Batch Client Samples Together~~

QC Level: TRRP LRC (TRRP checklist only+Level II (normal))

Relinquished By: [Signature]
Received By: FedEx [Signature]
Cooler ID(s): _____

Date/Time: 12/8/2021 1800
Date/Time: 12/9/21 1630
Temperature(s): 1R1 2.8°C pH30

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **09-Dec-21 16:30**

Work Order: **21120930**

Received by: **LYS**

Checklist completed by Lydia Sweet 10-Dec-21
eSignature Date

Reviewed by: Chad Whelton 13-Dec-21
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 2.8/2.8C IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 12/10/2021 4:08:39 PM

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix D

Laboratory Data Quality Review

DATA USABILITY SUMMARY

Lori Burriss of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected January 4, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burriss verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ EPA 300.0 – Inorganic Anions (Chloride and Sulfate) by ion chromatography;
- ◇ A4500-F C-11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals (Calcium and Boron) by inductively coupled plasma-mass spectrometry (ICP/MS); and
- ◇ SM2540C – Total Dissolved Solids (TDS) by drying.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Twenty-five (25) groundwater samples, two (2) duplicate groundwater samples and one (1) field blank were analyzed for chloride, sulfate, fluoride, metals, and TDS. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. Data qualified as part of this review are included in Table 2.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.4, 0.1, 0.3, 0.2, 0.6, 1.2, 0.9, 0.4 and 2.8°C. Samples were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for fluoride, calcium and TDS.

Chloride and sulfate were detected in some of the continuing calibration blanks (CCB); however, associated samples were reported as detected for calcium greater than 5X the CCB concentration and did not require qualification. Except for FB-01, which was qualified as not-detected (U) for chloride, due to CCB detections.

Boron was detected in several CCBs. Sample FB-01 was qualified as not-detected (U) for boron, due to CCB contamination. Based on professional judgement, samples MW-40, MW-41, MW-62, MW-64, MW-23, MW-28D, MW-36, MW-60 and DUP-01 were qualified as estimated (J) for boron, due to CCB detections.

Blanks

Fluoride, sulfate, boron, calcium and TDS were reported as not-detected in the method blanks. Chloride batches R376116 and R376204 had detections of chloride in the method blanks of 0.207J mg/L and 0.223J mg/L, respectively. Associated samples were reported as detected for chloride greater than 5X the method blank concentration and were not qualified.

The field blank (FB-01) was reported as detected for boron (0.0278 mg/L), calcium (0.183J mg/L), chloride (0.251J mg/L) and sulfate (0.235J mg/L). Boron and chloride were also detected in the associated CCBs for FB-01 and is likely not a true detection and was not used for qualification purposes. Calcium and sulfate were reported as detected in the associated samples as greater than 5X the field blank concentration; therefore, no data were qualified.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for chloride, sulfate, fluoride, metals, and TDS.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for fluoride batches R307611 and R307694 were analyzed on site samples MW-58 and MW-63 which were within QC acceptance criteria. MS/MSD analysis is not a requirement of TDS method SM2540C. Fluoride batch R307709 was analyzed on samples not associated with the project site and was not evaluated or used for qualification purposes.

Metals batches 161301 and 161307 MS/MSDs analyzed on site samples MW-63 and MW-58 had calcium recovery outside acceptance criteria. However, the MS/MSD spike amount for calcium was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Chloride/Sulfate batch R376116 MS/MSD analyzed on site sample MW-38R had low recovery for sulfate. However, the recovery of sulfate in this MS/MSD was within the site-specific SAP limits; therefore, no data were qualified.

Chloride/Sulfate batch R376204 MS/MSD analyzed on site samples MW-58 and MW-63 had low recovery for chloride and sulfate. However, the MS/MSD spike amount for chloride and sulfate was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Post Digestion Spike and Serial Dilution

The post digestion spikes (PDS) for serial dilutions for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicates for TDS were within QC acceptance criteria.

Field Precision

Two (2) field duplicate samples were included in this data package (MW-36/DUP-01 and MW-44/DUP-02). Both sample and duplicate, MW-36/DUP-01, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30%.

Both sample and duplicate, MW-44/DUP-02, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The RPD between sample and duplicate was within the QC acceptance criteria of 30%.

Sample/duplicate precision calculations are included in Table 3.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

The data user is advised that sample FB-01 was qualified as not-detected (U) for chloride and boron, due to CCB detections. Based on professional judgement, samples MW-40, MW-41, MW-

62, MW-64, MW-23, MW-28D, MW-36, MW-60 and DUP-01 were qualified as estimated (J) for boron, due to CCB detections.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21010047

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21010047-01	MW-39	Groundwater
HS21010047-02	MW-40	Groundwater
HS21010047-03	MW-41	Groundwater
HS21010047-04	MW-62	Groundwater
HS21010047-05	MW-63	Groundwater
HS21010047-06	MW-64	Groundwater
HS21010047-07	MW-23	Groundwater
HS21010047-08	MW-28D	Groundwater
HS21010047-09	MW-42	Groundwater
HS21010047-10	MW-43	Groundwater
HS21010047-11	MW-44	Groundwater
HS21010047-12	MW-46R	Groundwater
HS21010047-13	MW-47	Groundwater
HS21010047-14	MW-48	Groundwater
HS21010047-15	MW-50	Groundwater
HS21010047-16	MW-52	Groundwater
HS21010047-17	MW-54	Groundwater
HS21010047-18	MW-55R	Groundwater
HS21010047-19	MW-58	Groundwater
HS21010047-20	MW-65	Groundwater
HS21010047-21	MW-36	Groundwater
HS21010047-22	MW-37	Groundwater
HS21010047-23	MW-38R	Groundwater
HS21010047-24	MW-60	Groundwater
HS21010047-25	MW-61	Groundwater
HS21010047-26	DUP-01	Groundwater
HS21010047-27	DUP-02	Groundwater

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21010047-28	FB-01	Water

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21010047

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
FB-01	Boron Chloride	U	CCB contamination.
MW-40 MW-41 MW-62 MW-64 MW-23 MW-28D MW-36 MW-60 DUP-01	Boron	J	CCB contamination.
<p>U – Not-detected</p> <p>J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.</p> <p>UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise.</p> <p>L – Bias in sample, likely to be low.</p> <p>H – Bias in sample likely to be high.</p>			

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21010047

Table 3 – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
MW-36/DUP-01	Boron	0.0765	0.0928	19	A
	Calcium	226	222	2	A
	Chloride	339	343	1	A
	Sulfate	448	457	2	A
	TDS	1,360	1,460	7	A
	Fluoride	0.43	0.42	2	A
MW-44/DUP-02	Boron	0.274	0.293	7	A
	Calcium	144	252	5	A
	Chloride	346	351	1	A
	Sulfate	239	244	2	A
	TDS	1,270	1,320	3	A
	Fluoride	0.44	0.44	0	A

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.

A* - Acceptable Data where results were less than 5X the MQL and the difference between sample and duplicate was less than 2X the MQL.

X – Outside the TRRP-13/SAP acceptance criteria of 30% RPD.

J – Estimated detected.

U – Not-detected.

DATA USABILITY SUMMARY

Lori Burris of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected January 4, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burris verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ A4500F C11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals by inductively coupled plasma-mass spectrometry (ICP/MS);
- ◇ SW-846 7470A – Mercury by manual cold vapor extraction;
- ◇ EPA 903.1 – Radium-226 by alpha counting detector method; and
- ◇ EPA 904.0 – Radium-228 by radiochemical/precipitation; count by gas-flow proportional beta counter.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Twenty-five (25) groundwater samples, two (2) duplicate groundwater samples and one (1) field blank were analyzed for metals, mercury, fluoride and Radium-226/228. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. The SAP also states that radiochemistry data will be compared to laboratory supplied limits instead of the aforementioned limits. Data qualified as part of this review are included in Table 2.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.4, 0.1, 0.3, 0.2, 0.6, 1.2, 0.9, 0.4 and 2.8°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA and SW-846 Method requirements for most metals, mercury and fluoride. Several continuing calibration blanks (CCBs) had detections of antimony, thallium and molybdenum. Associated samples were reported as not-detected for antimony and were not qualified. Samples MW-58 and MW-63 were qualified as not-detected (U) for thallium and molybdenum, due to CCB contamination. Samples MW-36, MW-38R, MW-60, MW-61, DUP-01, MW-40, MW-62 and MW-28D were qualified as not-detected (U) for molybdenum, due to CCB contamination.

Surrogate/Carrier Recoveries

Radium-226/Radium-228 carrier recoveries were within laboratory acceptance criteria.

Blanks

Metals, mercury, fluoride and Radium 226/228 were reported as not-detected in the method blanks.

The field blank (FB-01) was reported as not-detected for metals, mercury, fluoride and Radium-226/228.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for metals, mercury, fluoride and Radium-226/228.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for metals batch 161316 analyzed on site sample MW-63, mercury batch 161369 analyzed on site sample MW-58 and fluoride batches R307611 and R307694 analyzed on site samples MW-63 and MW-58 were within QC acceptance criteria. Fluoride batch R307709 MS/MSD was analyzed on a sample not associated with the project site and was not evaluated or used for qualification purposes. Radium-226/228 methods do not require MS/MSD be analyzed.

Mercury batch 161368 MS/MSD analyzed on site sample MW-63 had low recovery for mercury. Sample MW-63 was qualified as estimated low (JL) for mercury, due to low MS/MSD recovery.

Metals batch 161314 MS/MSD analyzed on site sample MW-58 had low recovery for barium. However, the MS/MSD spike amount for barium was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Post Digestion Spike and Serial Dilution

Post digestion spikes and serial dilutions for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicates for Radium-226/228 were within QC acceptance criteria.

Field Precision

Two (2) field duplicate samples were included in this data package (MW-36/DUP-01 and MW-44/DUP-02). Both sample and duplicate, MW-36/DUP-01, were reported as detected for arsenic, barium, cobalt, lithium, molybdenum, mercury and fluoride. In addition, sample DUP-01 was reported as detected for Radium-228. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, cobalt, molybdenum, lithium, fluoride and Radium-228. Mercury had elevated RPD; however, the sample/duplicate results were less than 5X the method quantitation limit (MQL) and the difference between sample and duplicate was less than 2X the MQL; therefore, data did not require qualification.

Sample and duplicate, MW-44/DUP-02, were reported as detected for arsenic, barium, lithium, molybdenum and fluoride. In addition, DUP-02 was reported as detected for Radium-228. The RPD between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, lithium, molybdenum, fluoride and Radium-228.

Sample/duplicate precision calculations are included in Table 3.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

The data user is advised that samples MW-58 and MW-63 were qualified as not-detected (U) for thallium and molybdenum, due to CCB contamination. Samples MW-36, MW-38R, MW-60, MW-61, DUP-01, MW-40, MW-62 and MW-28D were qualified as not-detected (U) for molybdenum, due to CCB contamination. Sample MW-63 was qualified as estimated low (JL) for mercury, due to low MS/MSD recovery.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix IV
Analytical Report No. HS21010048

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21010048-01	MW-39	Groundwater
HS21010048-02	MW-40	Groundwater
HS21010048-03	MW-41	Groundwater
HS21010048-04	MW-62	Groundwater
HS21010048-05	MW-63	Groundwater
HS21010048-06	MW-64	Groundwater
HS21010048-07	MW-23	Groundwater
HS21010048-08	MW-28D	Groundwater
HS21010048-09	MW-42	Groundwater
HS21010048-10	MW-43	Groundwater
HS21010048-11	MW-44	Groundwater
HS21010048-12	MW-46R	Groundwater
HS21010048-13	MW-47	Groundwater
HS21010048-14	MW-48	Groundwater
HS21010048-15	MW-50	Groundwater
HS21010048-16	MW-52	Groundwater
HS21010048-17	MW-54	Groundwater
HS21010048-18	MW-55R	Groundwater
HS21010048-19	MW-58	Groundwater
HS21010048-20	MW-65	Groundwater
HS21010048-21	MW-36	Groundwater
HS21010048-22	MW-37	Groundwater
HS21010048-23	MW-38R	Groundwater
HS21010048-24	MW-60	Groundwater
HS21010048-25	MW-61	Groundwater
HS21010048-26	DUP-01	Groundwater
HS21010048-27	DUP-02	Groundwater

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21010048-28	FB-01	Water

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Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
MW-58 MW-63	Thallium Molybdenum	U	CCB contamination.
MW-36 MW-38R MW-60 MW-61 DUP-01 MW-40 MW-62 MW-28D	Molybdenum	U	CCB contamination.
MW-63	Mercury	JL	Low MS/MSD recovery.
<p>U – Not-detected J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements. UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise. L – Bias in sample, likely to be low. H – Bias in sample likely to be high.</p>			

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Table 3 – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
MW-36/DUP-01	Arsenic	0.000458J	0.000584J	24	A
	Barium	0.0314	0.0352	11	A
	Cobalt	0.000657J	0.000580J	12	A
	Lithium	0.0361	0.0351	3	A
	Molybdenum	0.000768J	0.000663J	15	A
	Mercury	0.000463	0.000712	42	A*
	Radium-228	<0.91 +/- 0.45	1.18 +/- 0.05	26	A
	Fluoride	0.43	0.42	2	A
MW-44/DUP-02	Arsenic	0.00676	0.00590	14	A
	Barium	0.103	0.102	1	A
	Lithium	0.0323	0.0296	9	A
	Molybdenum	0.00739	0.00742	0	A
	Radium-228	<0.87 +/- 0.46	0.88 +/- 0.45	1	A
	Fluoride	0.44	0.44	0	A

^a RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.0
A* - Acceptable Data 5 where results were less than 5X the MQL and the difference between sample and duplicate was less than 2X the MQL.38
X – Outside the TRRP-143/SAP acceptance criteria of 30% RPD.
J – Estimated detected.1
U – Not-detected.

DATA USABILITY SUMMARY

Lori Burriss of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected April 9, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burriss verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ EPA 300.0 – Inorganic Anions (Chloride and Sulfate) by ion chromatography;
- ◇ A4500-F C-11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals (Calcium and Boron) by inductively coupled plasma-mass spectrometry (ICP/MS); and
- ◇ SM2540C – Total Dissolved Solids (TDS) by drying.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Twenty-four (24) groundwater samples, two (2) duplicate groundwater samples and one (1) field blank were analyzed for chloride, sulfate, fluoride, metals, and TDS. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. Data qualified as part of this review are included in Table 2.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.9, 0.2, 0.6, 1.0, 0.4, 3.2, 3.0, 0.3, 0.3, 0.8, 2.8 and 1.1°C. Samples were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for chloride, sulfate, fluoride, calcium and TDS.

Boron was detected in several CCBs. Sample FB-01 was qualified as not-detected (U) for boron, due to CCB contamination. Based on professional judgement, samples MW-41, MW-62, MW-36 and DUP-01 were qualified as estimated (J) for boron, due to CCB detections.

Blanks

Chloride, fluoride, sulfate, calcium and TDS were reported as not-detected in the method blanks. Boron batch R164673 had a detection of boron in the method blank of 0.01262J mg/L. Associated samples were reported as detected for boron greater than 5X the method blank concentration and were not qualified.

The field blank (FB-01) was reported as detected for calcium (0.0648J mg/L). Calcium was reported as detected in the associated samples as greater than 5X the field blank concentration; therefore, no data were qualified.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for chloride, sulfate, fluoride, metals, and TDS.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for fluoride batches R314231 and R314367 were analyzed on site samples MW-58 and MW-63 which were within QC acceptance criteria. MS/MSD analysis is not a requirement of TDS method SM2540C. Fluoride batch R314366 and metals batch 164671 were analyzed on samples not associated with the project site and were not evaluated or used for qualification purposes.

Metals batches 164672 and 164673 MS/MSDs analyzed on site samples MW-63 and MW-58 had calcium recovery outside acceptance criteria. However, the MS/MSD spike amount for calcium was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Chloride/Sulfate batch R381864 MS/MSD analyzed on site sample MW-61 had elevated recovery for sulfate. However, the MS/MSD spike amount for sulfate was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Chloride/Sulfate batch R381865 MS/MSD analyzed on site samples MW-58 and MW-63 had low recovery for sulfate. However, the MS/MSD spike amount for sulfate was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Post Digestion Spike and Serial Dilution

The post digestion spikes (PDS) for metals batch 164673 analyzed on site sample MW-58 had low recovery for calcium. The amount spiked was less than 4X the unspiked parent sample results and was not qualified. This batch also had elevated serial dilution percent difference for boron of 11.7. The boron concentration in MW-58 was less than 50X the method detection limit and was not qualified.

Laboratory Duplicates

Laboratory duplicates for TDS were within QC acceptance criteria, except for TDS batch R381785 which had two duplicate samples analyzed with one being outside acceptance criteria. This duplicate sample was not a site sample and was not qualified.

Field Precision

Two (2) field duplicate samples were included in this data package (MW-36/DUP-01 and MW-44/DUP-02). Both sample and duplicate, MW-36/DUP-01, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for chloride, sulfate, boron, fluoride and TDS. Samples MW-36 and DUP-1 were qualified as estimated (J) for calcium, due to sample/duplicate precision outside acceptance criteria.

Both sample and duplicate, MW-44/DUP-02, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The RPD between sample and duplicate was within the QC acceptance criteria of 30%.

Sample/duplicate precision calculations are included in Table 3.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

The data user is advised that based on professional judgement, samples MW-41, MW-62, MW-36 and DUP-01 were qualified as estimated (J) for boron, due to CCB detections. Samples MW-36 and DUP-1 were qualified as estimated (J) for calcium, due to sample/duplicate precision outside acceptance criteria.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21040493

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21040493-01	MW-40	Groundwater
HS21040493-02	MW-41	Groundwater
HS21040493-03	MW-62	Groundwater
HS21040493-04	MW-63	Groundwater
HS21040493-05	MW-64	Groundwater
HS21040493-06	MW-23R	Groundwater
HS21040493-07	MW-28D	Groundwater
HS21040493-08	MW-42	Groundwater
HS21040493-09	MW-43	Groundwater
HS21040493-10	MW-44	Groundwater
HS21040493-11	MW-46R	Groundwater
HS21040493-12	MW-47	Groundwater
HS21040493-13	MW-48	Groundwater
HS21040493-14	MW-50	Groundwater
HS21040493-15	MW-52	Groundwater
HS21040493-16	MW-54	Groundwater
HS21040493-17	MW-55R	Groundwater
HS21040493-18	MW-58	Groundwater
HS21040493-19	MW-65	Groundwater
HS21040493-20	MW-36	Groundwater
HS21040493-21	MW-37	Groundwater
HS21040493-22	MW-38R	Groundwater
HS21040493-23	MW-60	Groundwater
HS21040493-24	MW-61	Groundwater
HS21040493-25	DUP-01	Groundwater
HS21040493-26	DUP-02	Groundwater
HS21040493-27	FB-01	Water

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Analytical Report No. HS21040493

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
MW-41 MW-62 MW-36 DUP-01	Boron	J	CCB contamination.
MW-36 DUP-01	Calcium	J	Sample/duplicate precision outside acceptance criteria.
<p>U – Not-detected</p> <p>J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements.</p> <p>UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise.</p> <p>L – Bias in sample, likely to be low.</p> <p>H – Bias in sample likely to be high.</p>			

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21040493

Table 3 – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
MW-36/DUP-01	Boron	0.0727	0.0625	15	A
	Calcium	147	217	38	X
	Chloride	356	355	0	A
	Sulfate	474	460	3	A
	TDS	1,730	1,650	5	A
	Fluoride	0.40	0.38	5	A
MW-44/DUP-02	Boron	0.249	0.239	4	A
	Calcium	133	123	8	A
	Chloride	336	341	1	A
	Sulfate	228	232	2	A
	TDS	1,390	1,290	7	A
	Fluoride	0.43	0.42	2	A

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.

A* - Acceptable Data where results were less than 5X the MQL and the difference between sample and duplicate was less than 2X the MQL.

X – Outside the TRRP-13/SAP acceptance criteria of 30% RPD.

J – Estimated detected.

U – Not-detected.

DATA USABILITY SUMMARY

Lori Burris of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected April 9, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burris verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ A4500F C11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals by inductively coupled plasma-mass spectrometry (ICP/MS);
- ◇ SW-846 7470A – Mercury by manual cold vapor extraction;
- ◇ EPA 903.1 – Radium-226 by alpha counting detector method; and
- ◇ EPA 904.0 – Radium-228 by radiochemical/precipitation; count by gas-flow proportional beta counter.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Twenty-four (24) groundwater samples, two (2) duplicate groundwater samples and one (1) field blank were analyzed for metals, mercury, fluoride and Radium-226/228. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. The SAP also states that radiochemistry data will be compared to laboratory supplied limits instead of the aforementioned limits. Data qualified as part of this review are included in Table 2.

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.9, 0.2, 0.6, 1.0, 0.4, 3.2, 3.0, 0.3, 0.3, 0.8, 2.8 and 1.1°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA and SW-846 Method requirements for most metals, mercury and fluoride. Several continuing calibration blanks (CCBs) had detections of antimony, and thallium. Associated samples were reported as not-detected for antimony and were not qualified. Samples MW-63 and MW-41 were qualified as not-detected (U) for thallium, due to CCB contamination.

Surrogate/Carrier Recoveries

Radium-226/Radium-228 carrier recoveries were within laboratory acceptance criteria.

Blanks

Metals, mercury, fluoride and Radium 226/228 were reported as not-detected in the method blanks.

The field blank (FB-01) was reported as not-detected for metals, mercury, fluoride and Radium-226/228.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for metals, mercury, fluoride and Radium-226/228.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for metals batch 164672 analyzed on site sample MW-63, mercury batch 164695 analyzed on site sample MW-58 and fluoride batches R314231 and R314367 analyzed on site samples MW-63 and MW-58 were within QC acceptance criteria. Fluoride batch R314366 MS/MSD was analyzed on a sample not associated with the project site and was not evaluated or used for qualification purposes. Radium-226/228 methods do not require MS/MSD be analyzed.

Mercury batch 164694 MS/MSD analyzed on site sample MW-63 had low recovery for mercury. Sample MW-63 was qualified as estimated low (JL) for mercury, due to low MS/MSD recovery.

Metals batches 164673 and 164674 MS/MSDs analyzed on site sample MW-58 had barium recovery outside acceptance criteria. However, the MS/MSD spike amount for barium was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, data were not qualified.

Post Digestion Spike and Serial Dilution

Post digestion spikes and serial dilutions for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicates for Radium-226/228 were within QC acceptance criteria.

Field Precision

Two (2) field duplicate samples were included in this data package (MW-36/DUP-01 and MW-44/DUP-02). Both sample and duplicate, MW-36/DUP-01, were reported as detected for arsenic, barium, chromium, lithium, mercury and fluoride. In addition, sample DUP-01 was reported as detected for molybdenum. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, mercury, molybdenum, lithium, and fluoride. Chromium had elevated RPD; however, the sample/duplicate results were less than 5X the method quantitation limit (MQL) and the difference between sample and duplicate was less than 2X the MQL; therefore, data did not require qualification.

Sample and duplicate, MW-44/DUP-02, were reported as detected for arsenic, barium, lithium, molybdenum and fluoride. In addition, MW-44 was reported as detected for mercury. The RPD between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, lithium, molybdenum, and fluoride. Samples MW-44 and DUP-02 were qualified as estimated (J/UJ) for mercury, due to sample/duplicate precision outside acceptance criteria.

Sample/duplicate precision calculations are included in Table 3.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

The data user is advised that samples MW-63 and MW-41 were qualified as not-detected (U) for thallium, due to CCB contamination. Sample MW-63 was qualified as estimated low (JL) for mercury, due to low MS/MSD recovery. Samples MW-44 and DUP-02 were qualified as estimated (J/UJ) for mercury, due to sample/duplicate precision outside acceptance criteria.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix IV
Analytical Report No. HS21040494

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21040494-01	MW-40	Groundwater
HS21040494-02	MW-41	Groundwater
HS21040494-03	MW-62	Groundwater
HS21040494-04	MW-63	Groundwater
HS21040494-05	MW-64	Groundwater
HS21040494-06	MW-23R	Groundwater
HS21040494-07	MW-28D	Groundwater
HS21040494-08	MW-42	Groundwater
HS21040494-09	MW-43	Groundwater
HS21040494-10	MW-44	Groundwater
HS21040494-11	MW-46R	Groundwater
HS21040494-12	MW-47	Groundwater
HS21040494-13	MW-48	Groundwater
HS21040494-14	MW-50	Groundwater
HS21040494-15	MW-52	Groundwater
HS21040494-16	MW-54	Groundwater
HS21040494-17	MW-55R	Groundwater
HS21040494-18	MW-58	Groundwater
HS21040494-19	MW-65	Groundwater
HS21040494-20	MW-36	Groundwater
HS21040494-21	MW-37	Groundwater
HS21040494-22	MW-38R	Groundwater
HS21040494-23	MW-60	Groundwater
HS21040494-24	MW-61	Groundwater
HS21040494-25	DUP-01	Groundwater
HS21040494-26	DUP-02	Groundwater
HS21040494-27	FB-01	Water

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Analytical Report No. HS21040494

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
MW-41 MW-63	Thallium	U	CCB contamination.
MW-63	Mercury	JL	Low MS/MSD recovery.
MW-44	Mercury	J	Sample/duplicate precision outside acceptance criteria.
DUP-02	Mercury	UJ	Sample/duplicate precision outside acceptance criteria.
<p>U – Not-detected J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements. UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise. L – Bias in sample, likely to be low. H – Bias in sample likely to be high.</p>			

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Analytical Report No. HS21040494

Table 3 – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
MW-36/DUP-01	Arsenic	0.000588J	0.000437J	29	A
	Barium	0.0345	0.0344	0	A
	Chromium	0.00320J	0.00176J	58	A*
	Lithium	0.0375	0.0373	1	A
	Molybdenum	0.000600U	0.000676J	12	A
	Mercury	0.00197	0.00173	13	A
	Fluoride	0.40	0.38	5	A
MW-44/DUP-02	Arsenic	0.00640	0.00644	1	A
	Barium	0.0962	0.0948	1	A
	Lithium	0.0302	0.0297	2	A
	Molybdenum	0.00330J	0.00320J	3	A
	Mercury	0.000311	0.0000300U	165	X
	Fluoride	0.43	0.42	2	A

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.0

A* - Acceptable Data 5 where results were less than 5X the MQL and the difference between sample and duplicate was less than 2X the MQL.38

X – Outside the TRRP-143/SAP acceptance criteria of 30% RPD.

J – Estimated detected.1

U – Not-detected.

DATA USABILITY SUMMARY

Lori Burris of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected October 15, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burris verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ EPA 300.0 – Inorganic Anions (Chloride and Sulfate) by ion chromatography;
- ◇ A4500-F C-11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals (Calcium and Boron) by inductively coupled plasma-mass spectrometry (ICP/MS); and
- ◇ SM2540C – Total Dissolved Solids (TDS) by drying.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Twenty-five (25) groundwater samples, two (2) duplicate groundwater samples and one (1) field blank were analyzed for chloride, sulfate, fluoride, metals, and TDS. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. No data were qualified as part of this review (see Table 2).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 4.2, 3.2, 1.6 and 3.3°C. Samples were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for chloride, sulfate, fluoride, and TDS.

Boron and calcium were detected in several CCBs. Associated samples were reported as detected greater than 5X the CCB concentrations and were not qualified.

Blanks

Chloride, fluoride, sulfate, boron, calcium and TDS were reported as not-detected in the method blanks.

The field blank (FB-01) was reported as detected for calcium (0.283J mg/L) and TDS (6.00J mg/L). Calcium and TDS were reported as detected in the associated samples as greater than 5X the field blank concentrations; therefore, no data were qualified.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for chloride, sulfate, fluoride, metals, and TDS.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for fluoride batches R329496 and R329499 were analyzed on site samples MW-58 and MW-63 which were within QC acceptance criteria. MS/MSD analysis is not a requirement of TDS method SM2540C. Metals batch 171586 was analyzed on a sample not associated with the project site and was not evaluated or used for qualification purposes.

Metals batch 171585 had two MS/MSDs analyzed on site samples MW-63 and MW-58 with both having calcium recovery outside acceptance criteria. However, the MS/MSDs spike amounts for calcium was less than 4X the unspiked parent samples and may not represent the matrix effect; therefore, data were not qualified.

Chloride/Sulfate batches R394293 and R394307 MS/MSDs analyzed on site samples MW-58, MW-63 and MW-60 had low recovery for chloride and sulfate. However, the MS/MSD spike amounts for chloride and sulfate were less than 4X the unspiked parent samples and may not represent the matrix effect; therefore, data were not qualified.

Post Digestion Spike and Serial Dilution

The post digestion spikes (PDS) for metals were within acceptance criteria. Metals batch 171585 had elevated serial dilution percent difference for boron of 10.9. The boron concentration in MW-63 was less than 50X the method detection limit and was not qualified.

Laboratory Duplicates

Laboratory duplicates for TDS were within QC acceptance criteria.

Field Precision

Two (2) field duplicate samples were included in this data package (MW-36/DUP-01 and MW-44/DUP-02). Both sample and duplicate, MW-36/DUP-01, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30%.

Both sample and duplicate, MW-44/DUP-02, were reported as detected for chloride, sulfate, boron, calcium, fluoride and TDS. The RPD between sample and duplicate was within the QC acceptance criteria of 30%.

Sample/duplicate precision calculations are included in Table 3.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21100945

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21100945-01	MW-39R	Groundwater
HS21100945-02	MW-40	Groundwater
HS21100945-03	MW-41	Groundwater
HS21100945-04	MW-62	Groundwater
HS21100945-05	MW-63	Groundwater
HS21100945-06	MW-64	Groundwater
HS21100945-07	MW-23R	Groundwater
HS21100945-08	MW-28D	Groundwater
HS21100945-09	MW-42	Groundwater
HS21100945-10	MW-43	Groundwater
HS21100945-11	MW-44	Groundwater
HS21100945-12	MW-46R	Groundwater
HS21100945-13	MW-47	Groundwater
HS21100945-14	MW-48	Groundwater
HS21100945-15	MW-50	Groundwater
HS21100945-16	MW-52	Groundwater
HS21100945-17	MW-54	Groundwater
HS21100945-18	MW-55R	Groundwater
HS21100945-19	MW-58	Groundwater
HS21100945-20	MW-65	Groundwater
HS21100945-21	MW-36	Groundwater
HS21100945-22	MW-37	Groundwater
HS21100945-23	MW-38R	Groundwater
HS21100945-24	MW-60	Groundwater
HS21100945-25	MW-61	Groundwater
HS21100945-26	DUP-01	Groundwater
HS21100945-27	DUP-02	Groundwater

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21100945-28	FB-01	Water

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
No Data Were Qualified.			
U – Not-detected J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements. UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise. L – Bias in sample, likely to be low. H – Bias in sample likely to be high.			

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21100945

Table 3 – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
MW-36/DUP-01	Boron	0.0649	0.0784	19	A
	Calcium	162	164	1	A
	Chloride	378	322	16	A
	Sulfate	511	412	21	A
	TDS	1,480	1,420	4	A
	Fluoride	0.39	0.39	0	A
MW-44/DUP-02	Boron	0.227	0.209	8	A
	Calcium	124	120	3	A
	Chloride	288	298	3	A
	Sulfate	198	204	3	A
	TDS	1,120	1,150	3	A
	Fluoride	0.42	0.41	2	A

^a RPD = ((SR - DR)*200)/(SR + DR)

A - Acceptable Data.

A* - Acceptable Data where results were less than 5X the MQL and the difference between sample and duplicate was less than 2X the MQL.

X – Outside the TRRP-13/SAP acceptance criteria of 30% RPD.

J – Estimated detected.

U – Not-detected.

DATA USABILITY SUMMARY

Lori Burris of TRC Environmental Corporation (TRC) reviewed one (1) data package from ALS Global Laboratories (ALS) for the analysis of groundwater samples collected December 7, 2021 at the NRG W.A. Parish Generating Station (Parish) in Thompsons, Texas. Data were reviewed for conformance to the requirements of the guidance document, *Review and Reporting of COC Concentration Data* (RG-366/TRRP-13) (TCEQ 2010). Lori Burris verified that at the time the laboratory data were generated for the project, ALS was NELAC-accredited under the Texas Laboratory Accreditation Program for the matrices, analytes, and methods of analysis requested on the chain-of-custody documentation. ALS's National Environmental Laboratory Accreditation Program (NELAP) certification is included in the laboratory data package.

Intended Use of Data: To provide current data on concentrations of chemicals of concern (COCs) in the groundwater at the property. These data are used for compliance with the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) Coal Combustion Residuals (CCR) detection monitoring programs. Data are also used for statistical analysis of potential statistically significant increases (SSI).

Analyses requested included:

- ◇ EPA 300.0 – Inorganic Anions (Chloride and Sulfate) by ion chromatography;
- ◇ A4500-F C-11 – Fluoride by ion selective electrode;
- ◇ SW-846 6020A – Metals (Calcium and Boron) by inductively coupled plasma-mass spectrometry (ICP/MS); and
- ◇ SM2540C – Total Dissolved Solids (TDS) by drying.

Data were reviewed and validated as described in *Review and Reporting of COC Concentration Data*, (RG-366/TRRP-13) and the results of the review/validation are discussed in this DUS.

The following laboratory submittals and field data were examined:

- ◇ the reportable data,
- ◇ the laboratory review checklists, and
- ◇ field sampling logs.

The results of supporting quality control (QC) analyses were summarized on the Laboratory Review Checklist (LRC) and Exception Report (ER) in the analytical report which was included in this review.

The LRC, associated ER, and reportable data included in this review are attached to this Data Usability Summary (DUS).

DATA REVIEW/VALIDATION RESULTS

Introduction

Ten (10) groundwater samples were analyzed for one or more of the following analytes: chloride, sulfate, fluoride, metals, and TDS. Table 1 lists the field identifications cross-referenced to laboratory identifications.

Analytical Results

The data package contains a minimum of one (1) quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not-detected results are reported as less than the value of the sample detection limit (SDL) as defined by the TRRP rule. The project Sampling and Analysis Plan (SAP) states that quality control percent recoveries of 70% to 130% indicate sufficient accuracy and a relative percent difference (RPD) of 30% indicates adequate precision. Therefore, these limits were used for comparison during this review for accuracy and precision. No data were qualified as part of this review (see Table 2).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.8 and 2.8°C. Samples were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for chloride, calcium, fluoride, and TDS.

Boron and sulfate were detected in several CCBs. Associated samples were reported as detected greater than 5X the CCB concentrations and were not qualified.

Blanks

Chloride, fluoride, sulfate, boron, calcium and TDS were reported as not-detected in the method blanks.

Laboratory Control Samples

Laboratory control samples (LCS) met the QC acceptance criteria for chloride, sulfate, fluoride, metals, and TDS.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples for fluoride batch R334334 were analyzed on site sample MW-41 which were within QC acceptance criteria. MS/MSD analysis is not a requirement of TDS method SM2540C.

Metals batch 1713410 MS/MSD was analyzed on site sample MW-40 and had low recovery for calcium. However, the MS/MSDs spike amounts for calcium was less than 4X the unspiked parent samples and may not represent the matrix effect; therefore, data were not qualified.

Chloride/Sulfate batch R397546 MS/MSD analyzed on site sample MW-63 had low recovery for chloride and sulfate. However, recovery for chloride and sulfate was within the SAP allowable limits and data were not qualified.

Post Digestion Spike and Serial Dilution

The post digestion spike (PDS) and serial dilution for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicate for TDS was within QC acceptance criteria.

Field Precision

Field duplicate samples were not included in this data package.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the Parish site.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan. W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
W.A. Parish CCR Appendix III
Analytical Report No. HS21120431

Table 1 – Cross-Reference between Laboratory and Field Identifications

Laboratory Identification	Field Identification	Matrix Type
HS21120431-01	MW-40	Groundwater
HS21120431-02	MW-41	Groundwater
HS21120431-03	MW-63	Groundwater
HS21120431-04	MW-64	Groundwater
HS21120431-05	MW-36	Groundwater
HS21120431-06	MW-37	Groundwater
HS21120431-07	MW-38R	Groundwater
HS21120431-08	MW-61	Groundwater
HS21120431-09	MW-23R	Groundwater
HS21120431-10	MW-58	Groundwater

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification	Reason for Qualification
No Data Were Qualified.			
U – Not-detected J – Estimated data; the reported quantitation limit or sample concentration is approximated due to exceedance of one or more QC requirements. UJ – The analyte was analyzed for but was not detected above the reported sample detection limit. The associated value is an estimate and may be inaccurate or imprecise. L – Bias in sample, likely to be low. H – Bias in sample likely to be high.			

Appendix E

Alternative Source Demonstrations



Alternative Source Demonstration

W.A. Parish Electric Generating Station
Solid Waste Disposal Area (SWMU 001) CCR Multiunit

May 2021

Prepared For
NRG Texas Power, LLC
Thompsons, Texas



A handwritten signature in blue ink that reads "Richard Varnell".

Richard D. Varnell, P.G., P.E.
Senior Engineer

FIRM #3775

A handwritten signature in black ink that reads "Tony Dworczyk".

Tony Dworczyk, P.G.
Senior Project Manager

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Alternate Source Demonstration, W.A. Parish, Solid Waste Disposal Area (SWMU 001)

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has three active CCR units that are managed pursuant to the CCR Rule, including the Solid Waste Disposal Area (SWDA) multiunit, which is the subject of this Alternate Source Demonstration (ASD).

The seventh groundwater detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG during November 2020. Statistical evaluation of the Appendix III detection monitoring parameters was completed in February 2021, to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified three apparent SSI in an upgradient monitoring well at the SWDA. This ASD (prepared in accordance with 257.94[e]) successfully identified alternative sources for the potential SSI. Therefore, detection monitoring will be continued for the SWDA multiunit.

As presented in the ASD for the third detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background water quality data set is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new background monitoring event was conducted during the third quarter of 2019. The original background water quality data set will continue to be used for statistical evaluation of the semiannual detection monitoring results (second, fourth, sixth, and eighth new quarterly monitoring events) until collection of the eight new quarterly background monitoring events have been completed and a new background water quality data set has been established for statistical evaluation purposes. The eighth quarterly background monitoring event will be performed during the second quarter of 2021.

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of three active CCR-management cells - Cell 1C, Cell 2B, and Cell 3; and Cell 2A, which is not currently being used for CCR management purposes. The four cells are monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area and the APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The SWDA multiunit is the subject of this Alternative Source Demonstration (ASD).

CCR-management activities at the SWDA are generally described as follows:

- Cell 1C – Receives nonmarketable CCR trucked from the plant;
- Cell 2B – Receives marketable CCR trucked from the plant;
- Cell 3 – Receives CCR bottom ash trucked from the plant; and
- Cell 2A-Pug Mill – Pug mill located at a small portion of closed Cell 2A and that is not currently being used for CCR management purposes.

NRG initially managed these four active CCR-management cells under the CCR Rule as four individual CCR units, as reflected in the initial certifications by a Texas professional engineer (P.E.) of the four individual groundwater monitoring systems (October 17, 2017) and as reflected in the *Annual Groundwater*

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Alternate Source Demonstration, W.A. Parish, Solid Waste Disposal Area (SWMU 001)

Monitoring Report (ERM, January 30, 2018) and the four individual *CCR Groundwater Monitoring Reports* (ERM, March 1, 2018). Following completion of the first semiannual detection monitoring ASD in July 2018, the four active CCR management cells were combined into a single CCR multiunit for subsequent groundwater monitoring and statistical evaluation pursuant to §257.91(d). The groundwater monitoring network and statistical methods certifications were revised during July 2018 and certified by a Texas P.E.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring event in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring and Corrective Action Reports* (January 30, 2018) for the individual CCR landfill units (Cell 1C, Cell 2A, Cell 2B, and Cell 3) and the *CCR Groundwater Monitoring Reports* (March 1, 2018) for the individual CCR landfill units pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the individual cells of the SWDA for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSIs and completed a successful Alternative Source Demonstration (ASD) in July 2018. The ASD was placed into the facility's operating record (FOR) and was provided with the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed in October 2018 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified two apparent SSIs in two monitoring wells. TRC completed a successful ASD in April 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit in July 2019. The statistical evaluation identified seven apparent SSIs, three of which were identified in upgradient wells. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The fourth semiannual detection monitoring event was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified one apparent SSI, which was identified in an upgradient well. TRC

completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

Two of the downgradient monitoring wells (MW-46 and MW-55) had consistent or intermittent high pH values measured during groundwater monitoring events. The measurements were consistent with grout potentially being present at the screened intervals for both monitoring wells. Therefore, both wells were replaced. Replacement wells (MW-46R and MW-55R) were installed and developed in March 2019 prior to the April 2019 fourth detection monitoring sampling event. Subsequent pH readings for both replacement wells have been consistent with background water quality.

The fifth semiannual detection monitoring event was conducted in October 2019. Laboratory analytical data were received by NRG in October 2019. Statistical evaluation was completed in January 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified one apparent SSI. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* (January 2021) for the Station.

The sixth semiannual detection monitoring event was conducted in April 2020. Statistical evaluation was completed in July 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified one potential SSI in an upgradient well. TRC completed a successful ASD in October 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* (January 2021) for the Station.

1.2 Purpose

The seventh semiannual detection monitoring event was conducted in October 2020. Statistical evaluation was completed in February 2021 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified three apparent SSIs in an upgradient well. On behalf of NRG, TRC prepared this ASD to evaluate the apparent SSI above background for the seventh semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

Based on the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Station is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh and mud-flat

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Alternate Source Demonstration, W.A. Parish, Solid Waste Disposal Area (SWMU 001)*

deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the Station are under confined conditions.

Site investigations conducted in May 2016 and November 2016 identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the Station. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is $2.85E-08$ centimeters per second (cm/sec) and $2.03E-08$ cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer System)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2 and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the upper aquifer system at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate

hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 Solid Waste Disposal Area – Hydrogeology

Four separate groundwater monitoring well systems were initially developed in 2016 for each of the four active CCR-management cells, which were certified by a Texas P.E. under 257.91(f) on October 17, 2017. The monitoring wells were completed into Stratum DA-2, the upper aquifer system at the Station.

Following successful completion of the first semiannual detection monitoring ASD in July 2018, the four individual CCR-management units were combined into a single CCR multiunit. A revised groundwater monitoring system and revised statistical method were developed and certified by a Texas P.E. for the SWDA CCR multiunit. The monitoring wells comprising the revised groundwater monitoring system is summarized in Table 1.

A groundwater potentiometric surface map for was prepared by TRC for the October 2020 semiannual detection monitoring event and is provided in this ASD as Figure 2. Historically, groundwater flows primarily to the northeast beneath the SWDA CCR multiunit at a gradient ranging from 0.0007 foot per foot (ft/ft) to 0.003 ft/ft.

**Table 1
Groundwater Monitoring System for SWDA CCR-Multiunit**

UPGRADIENT WELLS	DOWNGRADIENT WELLS
MW-23, MW-28D, MW-42, MW-43, MW-47, and MW-48	MW-44, MW-46R, MW-50, MW-52, MW-54, MW-55R, MW-58, and MW-65

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE



FGD
EMERGENCY
POND

AIR
PREHEATER
POND

TU JONES RD.

SMITHERS LAKE RD.

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseca	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1-2
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

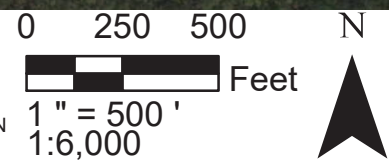
HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19



LEGEND

- MULTIUNIT DOWNGRADIENT MONITORING WELL
- MULTIUNIT UPGRADIENT MONITORING WELL
- 51.54 GROUNDWATER ELEVATION (FT MSL)
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)
- ← GROUNDWATER FLOW DIRECTION

NOTE:
 GROUNDWATER ELEVATIONS
 MEASURED BY HMI ON APRIL
 7TH, 2020.
 R= MONITOR WELL REPLACED IN
 2019.



PROJECT:	NRG TEXAS POWER, LLC W.A. PARISH STATION THOMPSONS, TEXAS
TITLE:	SOLID WASTE DISPOSAL AREA GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2020

DRAWN BY:	F. YARBROUGH
CHECKED BY:	
APPROVED BY:	
DATE:	OCTOBER 2020
PROJ NO:	
FILE:	
FIGURE 2-7	

Section 2

Alternative Source Demonstration

The seventh semiannual detection monitoring event was conducted in October 2021. Laboratory analytical data were received by NRG on November 6, 2020. Statistical evaluation to identify apparent SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units in February 2021. The statistical evaluation identified three apparent SSIs (calcium, chloride, and field pH in upgradient monitoring well MW-23) as presented in Table 1 below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.93(e)(2).

Table 1
SSIs – October 2020 Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Calcium	MW-23 (UG)	NA	313	10/1/2020	363	mg/L
Chloride	MW-23 (UG)		992	10/1/2020	1,220	mg/L
Field pH	MW-23 (UG)	6.9	10.6	10/1/2020	11.47	S.U.

The apparent SSIs were identified for upgradient monitoring well MW-23. The original eight background samples for the SWDA CCR cells were collected in a one-year period from July 2016 through July 2017. The time between sampling events was about 1.5 to 2 months. Because of the short amount of time that the original background water quality data set was collected, it appears likely that the background time period was not fully representative of upgradient groundwater quality at the SWDA.

Based on TRC’s validation of semiannual detection monitoring water quality data provided by the analytical laboratory, TRC has determined that there are unresolvable issues regarding data quality. These issues have brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19).

As discussed in the third semiannual detection monitoring ASD (September 2019) for the SWDA, NRG has concluded that the original background water quality data set reflects persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly samples are being collected over a two-year

period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new background groundwater samples were collected in July 2019 and samples have been collected for establishing new background comparison values on a quarterly basis since then. The eighth new background groundwater samples will be collected during the second quarter of 2021.

During the timeframe of collecting the new quarterly background samples, the original background UTLs will continue to be used for statistical evaluation of the semiannual detection monitoring results. ASDs will continue to be prepared as needed for apparent SSIs based on the original background water quality data set until the new background water quality data set has been developed.

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

Section 3

Conclusions

Apparent SSIs were identified in an upgradient well. Therefore, this apparent SSI appears to be related to natural variations in background groundwater quality.

In addition, based on persistent, unresolvable data quality issues with the analytical laboratory, NRG concluded that the original background water quality data set was not valid for use for statistical analysis under the CCR Rule. Therefore, NRG concluded that the existing background water quality data set for the SWDA was unreliable and a new background data set is being developed. Until the new background water quality data set has been developed, the existing background water quality data set will continue to be used for statistical evaluation of the semiannual detection monitoring data.

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the SWDA have been shown to likely be responsible for the apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the SWDA multiunit.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station SWDA CCR multiunit has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

Name: Richard Varnell

Expiration Date: 6/30/2021

Company: TRC Environmental Corporation

Date: 6/10/2021

FERM #3775



Section 5

References

- BEG 1982. Geologic Atlas of Texas, Houston Sheet. The University of Texas at Austin, Bureau of Economic Geology. Revised 1982.
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Alternative Source Demonstration

W.A. Parish Electric Generating Station
FGD Emergency Pond (SWMU 020)

May 2021

Prepared For
NRG Texas Power, LLC
Thompsons, Texas



A handwritten signature in blue ink that reads "Richard Varnell".

Richard D. Varnell, P.G., P.E.
Senior Engineer

FIRM #3775

A handwritten signature in black ink that reads "Tony Dworaczyk".

Tony Dworaczyk, P.G.
Geologist/Project Manager

TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, W.A. Parish, FGD Emergency Pond (SWMU 020)

[HTTPS://TRCCOMPANIES-MY.SHAREPOINT.COM/PERSONAL/RVARNELL_TRCSOLUTIONS_COM/DOCUMENTS/DOCUMENTS/NRG/11-ASDS/WA-PARISH/FINALS/05_2021-ASD-WAP-E-POUND_FINAL.DOCX](https://trccompanies-my.sharepoint.com/personal/rvarnell_trcsolutions_com/documents/documents/nrg/11-ASDS/WA-PARISH/FINALS/05_2021-ASD-WAP-E-POUND_FINAL.DOCX)

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has three active CCR units that are managed pursuant to the CCR Rule, including the FGD Emergency Pond (E Pond, SWMU 020), which is the subject of this Alternate Source Demonstration (ASD).

The seventh semiannual groundwater detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG in November 2020. Statistical evaluation of the Appendix III detection monitoring parameters was completed in February 2021 to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified apparent SSIs in monitoring wells at the E Pond. This ASD (prepared in accordance with 257.94[e]) successfully identified alternative sources for the apparent SSIs. Therefore, detection monitoring will continue for the E Pond.

As presented in the ASD for the third semiannual detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background water quality data set is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new quarterly background monitoring event was conducted during the third quarter of 2019. The original background water quality data will continue to be used for statistical evaluation of the semiannual detection monitoring results (second, fourth, sixth, and eighth new quarterly monitoring events) until collection of the eight new background monitoring events have been completed and the new background water quality data set has been established for statistical evaluation purposes. The eighth quarterly background monitoring event will be performed during the second quarter of 2021.

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity-generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II Nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of three active CCR-management cells - Cell 1C, Cell 2B, and Cell 3; and Cell 2A, which is not currently being used for CCR management purposes. The four cells are monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area. The APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The E Pond (SWMU 020) is the subject of this Alternative Source Demonstration (ASD).

According to NRG, the E Pond comprises an area of approximately 0.5 acres and has dimensions of approximately 200 feet by 110 feet. The E pond receives storm water runoff from the FGD dewatering area and blowdown from the FGD system. The E Pond may also receive the contents of an FGD process vessel when the FGD system is not in operation.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring event

*TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, W.A. Parish, FGD Emergency Pond*

in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring Report, FGD Emergency Pond (Unit 020)* (ERM 2018a) and the March 1, 2018, *Groundwater Monitoring Report, FGD Emergency Pond (SWMU Unit 020)* (ERM 2018b) pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the E Pond for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSIs and completed a successful *Alternative Source Demonstration (ASD)* in July 2018. The ASD was placed into the facility's operating record (FOR) and was appended to the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

Based on field observations during the second detection monitoring that were provided in the ASD (July 2018), surficial CCR may have been inadvertently introduced into the wells and the laboratory analytical sample containers during the initial background and semiannual detection monitoring events. Therefore, the flush-mounted monitoring wells at the E Pond were modified before the third semiannual detection monitoring event was performed with the installation of vertical well casing extensions and protective casings. These well modifications were designed to reduce the potential for the inadvertent introduction of CCR into the wells during groundwater monitoring. Furthermore, additional care was taken during the third semiannual detection monitoring event to minimize the potential for CCR to be inadvertently introduced into the laboratory analytical sample containers during sample collection.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed in October 2018 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified 11 apparent SSIs in the three downgradient monitoring wells. Although, water quality in the downgradient monitoring wells had improved, apparent SSIs continued to be observed. TRC completed a successful ASD in April 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified nine apparent SSIs in the three downgradient monitoring wells. During the third semiannual detection monitoring event, field personnel observed the presence of silt in monitoring wells at the E Pond. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

*TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, W.A. Parish, FGD Emergency Pond*

The wells were redeveloped, and accumulated silt was removed from the well casings prior to the collection of groundwater samples during the fourth semiannual detection monitoring event that was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified 11 apparent SSIs, one of which was identified in an upgradient well. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

In July 2019, MW-38 was severely damaged by mobile plant equipment. MW-38 was abandoned and MW-38R was installed immediately adjacent to MW-38.

The fifth semiannual detection monitoring event was conducted in October 2019. Laboratory analytical data were received by NRG in October 2019. Statistical evaluation was completed in January 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four apparent SSIs. TRC completed a successful ASD in April 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

The sixth semiannual detection monitoring event was conducted in April 2020. Statistical evaluation was completed in July 2020 to identify apparent SSIs pursuant to 257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified six apparent SSIs. TRC completed a successful ASD in October 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

1.2 Purpose

The seventh semiannual detection monitoring event was conducted in October 2020. Statistical evaluation was completed in February 2021 to identify SSIs pursuant to 257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified six apparent SSIs: boron and total dissolved solids (TDS) for MW-37, MW-38R, and MW-61. On behalf of NRG, TRC prepared this ASD to evaluate apparent SSIs above background levels for the seventh semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

Based on the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Station is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh and mud-flat deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the Site are under confined conditions (ERM, 2017).

Site investigations conducted in May 2016 and November 2016 identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the Site. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is $2.85E-08$ centimeters per second (cm/sec) and $2.03E-08$ cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2 and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the uppermost groundwater-bearing unit at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 E Pond – Hydrogeology

The certified CCR groundwater monitoring well network for the E Pond consists of five groundwater monitoring wells (MW-36, MW-37, MW-38R, MW-60, and MW-61):

- Upgradient monitoring wells MW-36 and MW-60; and
- Downgradient monitoring wells MW-37, MW-38R, and MW-61.

The E Pond monitoring wells were completed into Stratum PA-2, the upper aquifer system at the Station. A groundwater potentiometric surface map was prepared by TRC for the October 2020 detection monitoring event and is provided in this ASD as Figure 2. Historically, groundwater flows to the southwest beneath the E Pond at a gradient ranging from 0.010 feet per foot (ft/ft) to 0.030 ft/ft.

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE

FGD
EMERGENCY
POND

AIR
PREHEATER
POND

TU JONES RD.

SMITHERS LAKE RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1-2
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
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FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19

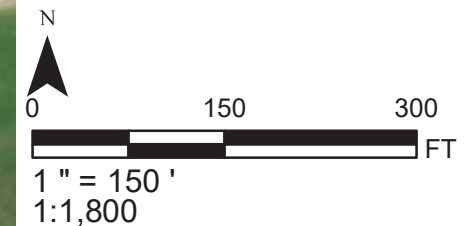


Legend

- MONITORING WELL
- 62.35 GROUNDWATER ELEVATION (FT MSL)
- ← GROUNDWATER FLOW
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)

NOTE:
GROUNDWATER ELEVATIONS
MEASURED BY HMI ON APRIL
7TH, 2020.

AERIAL IMAGE SOURCE: GOOGLE EARTH
AND THEIR DATA PARTNERS (10/28/2017)



PROJECT: **NRG TEXAS POWER, LLC
W.A. PARISH STATION
THOMPSONS, TEXAS**

TITLE: **FGD EMERGENCY POND
GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2020**

DRAWN BY: **F. YARBROUGH**

CHECKED BY:

APPROVED BY:

DATE: **OCTOBER 2020**

PROJ. NO:

FILE:

FIGURE 2-9

Section 2

Alternative Source Demonstration

The seventh semiannual detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG in November 2020. Statistical evaluation to identify apparent SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units in February 2021. The statistical evaluation identified six apparent SSIs as presented in Table 1 below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.94(e)(2).

Table 1
SSIs – October 2020 Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-37	N/A	0.160	10/1/2020	0.33	mg/L
Boron	MW-38R	N/A	0.160	10/1/2020	0.496	mg/L
Boron	MW-61	N/A	0.160	10/1/2020	1.13	mg/L
TDS	MW-37	N/A	1,958	10/1/2020	2,160	mg/L
TDS	MW-38R	N/A	1,958	10/1/2020	1,960	mg/L
TDS	MW-61	N/A	1,958	10/1/2020	1,960	mg/L

Based on the presence of an upper confining layer (Stratum PA-1) that is present between the bottom of the E Pond and the underlying upper aquifer system (Stratum PA-2) and the observation of surficial CCR in the area of the monitoring wells, the following lines of reasoning appear to support the conclusion that the six apparent SSIs observed above background levels likely originate from a source or sources other than the E Pond:

- The bottom of the E Pond is separated from the upper aquifer system by a confining unit (Stratum PA-1) that hydraulically isolates the bottom of the E Pond from the upper aquifer system (Stratum PA-2). Available data indicate the upper aquifer system is under confined conditions and the confining unit (Stratum PA-1) acts as a vertical hydraulic barrier between the bottom of the E Pond and the upper aquifer system (Stratum PA-2), based on the following lines of reasoning:
 - Based on review of the boring logs for the groundwater monitoring wells installed at the E Pond, the upper clay confining unit (Stratum PA-1) was present at each monitoring well from the ground surface to depths ranging from 19 feet bgs to 32 feet bgs (i.e., thickness

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ranging from 19 feet to 32 feet; corresponding to elevations of about 53 to 49 feet above mean sea level [amsl]). The bottom of the E Pond is located within Stratum PA-1 with the bottom of the clay liner at an elevation of about 60 feet amsl); therefore, Stratum PA-1 acts as a confining layer between the bottom of the E Pond and the underlying upper aquifer system (Stratum PA-2).

- Based on geotechnical laboratory results for a soil sample collected from Stratum PA-1 at a depth of 10 feet bgs, Stratum PA-1 is a lean clay with a hydraulic conductivity of 2.03E-8 centimeters per second (ERM 2017b), which is consistent with an impervious lithologic unit that exceeds the required specifications per 40 CFR §257.71(a) for a compacted bottom clay liner for a CCR impoundment.
- The E Pond is located at an active power generating area at the Plant Area and non CCR-related and CCR-related materials are actively managed near the E Pond. For example, the FGD loadout pad immediately adjoins the E Pond. The presence of non CCR-related and CCR-related materials near the E pond monitoring wells may be a potential source for some or all of the apparent SSIs identified in groundwater samples collected from wells located downgradient of the E Pond, as described further below. The E Pond monitoring wells were installed as flush-mounted wells, which may have enabled surface materials to incidentally enter the groundwater monitoring wells during sampling activities.

Prior to the third semiannual detection monitoring event, NRG modified the monitoring wells by installing casing extensions and protective casings to protect the wells from the accidental introduction of CCR materials directly into groundwater samples during sample collection. The wells were further redeveloped prior to the fourth sampling event. Although the wells have been improved and sampling collection methods modified, groundwater/groundwater samples may still be affected by the inadvertent introduction of surficial CCR into the monitoring wells and/or groundwater samples during sample collection. This may include residual impacts from CCR introduced into the wells prior to their improvement in 2018.

In July 2019, equipment working in the vicinity of the E Pond inadvertently damaged MW-38. The well was replaced by new monitoring well MW-38R in August 2019, which was installed immediately adjacent to former MW-38. Following well development, groundwater samples were collected from the replacement monitoring well on August 5, 2019. Table 2 provides a comparison of the April 30, 2019, Appendix III analytical results for MW-38 and the August 5, 2019 analytical results for MW-38R.

The August samples were analyzed by a different analytical laboratory and by the methods described below. While the results for two analytes remain higher than the UTLs, they indicate improved water

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2-2

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quality. These results indicate that technical issues with MW-38 were likely responsible for elevated concentrations of some Appendix III constituents in that well. It is likely that these monitoring well issues and other issues with materials present in the vicinity of the monitoring wells have allowed a pathway for constituents to reach the groundwater by a pathway other than migration directly from the E Pond.

Table 2
Replacement Well Analytical Results

ANALYTE	UTL	UNIT	MW-38 4/29/2019	MW-38R 8/5/2019
Boron	0.16	mg/L	2.01	0.359
Calcium	301	mg/L	454	323
Chloride	359	mg/L	661 JL	180
Fluoride	7	mg/L	0.817	0.52
Field pH	6.4 – 7.1	S.U.	6.79	6.83
Sulfate	1,070	mg/L	855 JL	775
Total Dissolved Solids	1,958	mg/L	2,710	1,870

Results above detection limits are bolded
 Results above the UTL are highlighted
 JL Estimated result with a low bias

Based on validation of the original background and semiannual detection monitoring events provided by the analytical laboratory, TRC determined that there are unresolvable issues regarding data quality. These issues have brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background water quality data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19).

During the April 2019 fourth semiannual detection monitoring event, a groundwater sample from one well per CCR unit was split between two analytical laboratories to assess the ongoing issues with the analytical laboratory. For the E Pond, MW-37 was selected for split sampling. The split samples for chloride and TDS each had one result that was a potential SSI and one result that was not. While the TDS results between the two laboratories are relatively close and merely straddle the background UTL concentration, the chloride results are substantially different (a circumstance that was also observed for the other split samples). This provides support for the line of reasoning and likelihood that laboratory analytical issues are an alternative source for the chloride UTL exceedance, because the initial UTLs were calculated with data that had unresolvable quality issues.

As discussed in the third detection monitoring ASD (September 2019) for the E Pond, NRG concluded that the original background water quality data set reflected persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly samples are being collected over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new background groundwater samples were collected in July 2019. The eighth new background groundwater samples will be collected during the second quarter of 2021.

During the timeframe for collecting the new quarterly background groundwater samples, the original background UTLs will continue to be used for statistical evaluation of the semiannual detection monitoring results. ASDs will continue to be prepared as needed for apparent SSIs based on the original background water quality data set until the new background water quality data set has been developed.

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

Section 3

Conclusions

Statistical evaluation identified six apparent SSIs, including one in an upgradient monitoring well. This ASD has identified the following lines of reasoning that support alternative sources for these apparent SSIs:

- The bottom of the E Pond clay liner is separated from the upper aquifer system by a confining unit that hydraulically isolates the bottom of the E Pond from the upper aquifer system. Improperly installed or damaged monitoring wells may have provided a conduit for CCR constituents to migrate into the upper aquifer system.
- The presence of CCR materials in the vicinity of the monitoring wells prior to their modification to include risers from the ground surface provided an opportunity for surface materials to inadvertently enter the wells directly from the ground surface.
- Water quality improved incrementally with each improvement to the CCR groundwater monitoring system. In July 2019, MW-38 was severely damaged by mobile plant equipment. MW-38 was abandoned and MW-38R was installed immediately adjacent to MW-38. August 2019 water quality analysis for MW-38R indicated significantly improved overall groundwater quality data.

In addition, based on persistent, unresolvable data quality issues with the analytical laboratory, NRG concluded that the original background water quality data set is not valid for use for statistical analysis under the CCR Rule. Therefore, NRG concluded that the existing background water quality data set for the E Pond was unreliable and a new background water quality data set is being developed. Until the new background water quality data set has been developed, the existing background water quality data set will continue to be used for statistical evaluation of the semiannual detection monitoring data.

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the E Pond have been shown to likely be responsible for each of the six apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the E Pond.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station E Pond has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

Name: Richard Varnell

Expiration Date: 6/30/2021

Company: TRC Environmental Corporation

Date: 6/10/2021

FIRM #3775



Section 5

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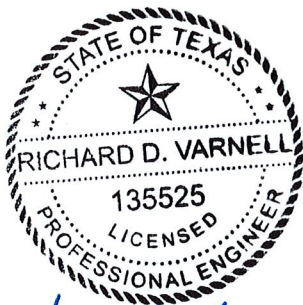


Alternative Source Demonstration

W.A. Parish Electric Generating Station Air Preheater Pond (SWMU 021)

May 2021

*Prepared For
NRG Texas Power, LLC
Thompsons, Texas*



A handwritten signature in blue ink that reads "Richard Varnell".

Richard D. Varnell, P.G., P.E.
Senior Engineer

FERM # 3775

A handwritten signature in black ink that reads "Tony Dworaczyk".

Tony Dworaczyk, P.G.
Geologist/Project Manager

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Alternate Source Demonstration, W.A. Parish, Air Preheater Pond

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Site consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Site has three active CCR management units that are subject to regulation under the CCR Rule, including the Air Preheater Pond (APH) Pond, which is the subject of this Alternate Source Demonstration (ASD).

The seventh semiannual groundwater detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG on November 6, 2020. Statistical evaluation of the Appendix III detection monitoring parameters was completed in February 2021, to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified two apparent SSIs in monitoring wells at the APH Pond, one of which is associated with an upgradient monitoring well. This ASD (prepared in accordance with 257.94[e]) successfully identified alternative sources for the apparent SSIs. Therefore, detection monitoring will continue for the APH Pond.

As presented in the ASD for the third semiannual detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background water quality data set is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new quarterly background monitoring event was conducted during the third quarter of 2019. The original background water quality data will continue to be used for statistical evaluation of the semiannual detection monitoring results (second, fourth, sixth, and eighth new quarterly monitoring events) until collection of the eight new quarterly background monitoring events has been completed and a new background water quality data set has been established for statistical evaluation purposes. The eighth quarterly background monitoring event will be performed during the second quarter of 2021.

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II Nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of four active CCR-management cells: Cell 1C, Cell 2A-Pug Mill, Cell 2B, and Cell 3; and is now monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area. The APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The APH Pond (SWMU 021) is the subject of this Alternative Source Demonstration (ASD).

According to NRG, the APH Pond comprises an area of 1.2 acres and has a total storage capacity of 3.7 acre-feet. The APH Pond receives effluent from air preheater wash and boiler cleaning wash, which consists of fly ash or economizer ash particles and water.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring event in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring Report, APH Pond (Unit 021)* (ERM 2018a) and the March 1, 2018, *Groundwater Monitoring Report, APH Pond (SWMU Unit 021)* (ERM 2018b) pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the

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Alternate Source Demonstration, W.A. Parish, Air Preheater Pond

APH Pond for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSI and completed a successful *Alternative Source Demonstration (ASD)* in July 2018. The ASD was placed into the facility's operating record (FOR) and was appended to the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed to identify SSIs pursuant to §257.93(f) and (g) in October 2018, and no SSIs were identified.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units certified in July 2018. The statistical evaluation identified three apparent SSIs (boron and chloride in upgradient monitoring well MW-39 and sulfate in downgradient monitoring well MW-63). TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The fourth semiannual detection monitoring event was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified five apparent SSIs, two of which were identified in upgradient wells. TRC completed a successful ASD in November 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

No apparent SSIs were identified for the APH Pond during the fifth (October 2019) and sixth (April 2020) semiannual detection monitoring events.

1.2 Purpose

The seventh semiannual detection monitoring event was conducted in October 2020. Statistical evaluation was completed in February 2021 to identify apparent SSIs pursuant to 257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified two apparent SSIs (chloride in upgradient monitoring well MW-39 and sulfate in downgradient monitoring well MW-63). On behalf of NRG, TRC prepared this ASD to evaluate apparent SSIs above background levels for the seventh semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

According to the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Site is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh and mud-flat deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the site are under confined conditions.

Site investigations conducted in May 2016 and November 2016 by ERM identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the Site. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is $2.85E-08$ centimeters per second (cm/sec) and $2.03E-08$ cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2

and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the uppermost groundwater-bearing unit at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 Air Preheater Pond - Hydrogeology

The certified CCR monitoring well network for the APH Pond consists of six groundwater monitoring wells (MW-39, MW-40, MW-41, MW-62, MW-63, and MW-64) completed into Stratum PA-2. A groundwater potentiometric surface map was prepared by TRC for the October 2020 detection monitoring event and is provided in this ASD as Figure 2. Historically, groundwater flows to the southeast beneath the APH Pond at a gradient ranging from approximately 0.002 feet per foot (ft/ft) to 0.006 ft/ft.

The groundwater monitoring system for the APH Pond was originally certified under 257.91(f) on October 17, 2017. The original certified CCR monitoring well network for the APH Pond designated one upgradient monitoring well (MW-62) and five downgradient monitoring wells (MW-39, MW-40, MW-41, MW-63, and MW-64). However, based on TRC's review of groundwater elevations measured during semiannual detection monitoring events and development of revised potentiometric surface maps, two of the initially designated downgradient monitoring wells (MW-39 and MW-40) are located upgradient of the APH Pond as shown on the October 2020 groundwater potentiometric surface map. Therefore, the CCR monitoring well system for the APH Pond has been revised and consists of three upgradient monitoring wells (MW-39, MW-40, and MW-62) and three downgradient monitoring wells (MW-41, MW-63, and MW-64).

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE



FGD
EMERGENCY
POND

AIR
PREHEATER
POND

TU JONES RD.

SMITHERS LAKE RD.

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

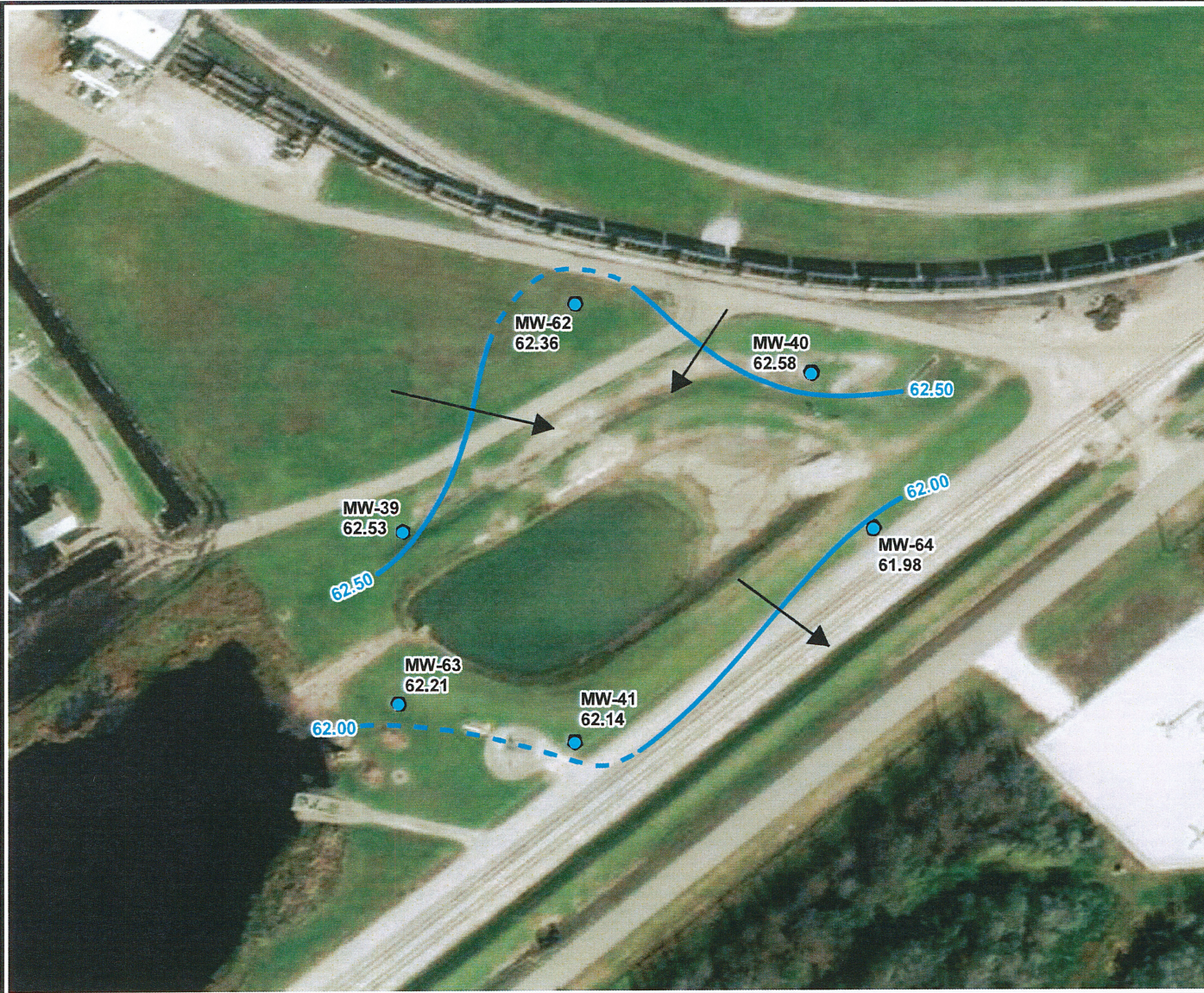
DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1-2
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19



Legend

- MONITORING WELL
- 62.36 GROUNDWATER ELEVATION (FT MSL)
- ← GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED

STATE OF TEXAS
 ★ ★ ★
ANTHONY DWORACZYK
 ★ ★ ★
GEOLOGY
 2658
LICENSED PROFESSIONAL GEOFICIENTIST

NOTE: GROUNDWATER ELEVATION MEASURED BY HMI ON OCTOBER 19, 2020.

AERIAL IMAGE SOURCE: GOOGLE EARTH AND THEIR DATA PARTNERS (10/28/2017).

N
 0 150 300
 FT
 1" = 150'
 1:1,800



PROJECT: **NRG TEXAS POWER, LLC
 W.A. PARISH STATION
 THOMPSONS, TEXAS**

TITLE: **AIR PREHEATER POND
 GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2020**

DRAWN BY: F. YARBROUGH

CHECKED BY:

APPROVED BY:

DATE: JUNE 2021

PROJ. NO.: 294645.2001.0000

FILE: 294645.2001_2-11

FIGURE 2-14

Section 2

Alternative Source Demonstration

The seventh semiannual detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG in November 2020. Statistical evaluation to identify SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units in February 2021. The statistical evaluation identified two apparent SSIs, one of which is associated with an upgradient monitoring well, as provided in the table below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.94(e)(2).

Statistical evaluation of the seventh semiannual detection monitoring event (comparison of downgradient monitoring results to 95 percent confidence/95 percent coverage upper tolerance limits [UTLs] of the background monitoring results) identified two apparent SSIs for the APH Pond, as shown in Table 1.

Table 1
SSIs – October 2020 Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Chloride	MW-39 (UG)	NA	824	10/1/2020	919	mg/L
Sulfate	MW-63 (DG)	NA	449	10/1/2020	457	mg/L

One of the apparent SSIs (chloride) was identified for upgradient monitoring well MW-39. The original eight background groundwater monitoring samples for the APH Pond were collected during a one-year period from July 2016 through July 2017. The time between sampling events was about 1.5 to 2 months. Because of the short amount of time that the original background water quality data set was collected, it appears likely that the background monitoring period was not fully representative of upgradient groundwater quality and natural variation in groundwater quality at the APH Pond.

Based on TRC’s validation of the original background water quality data set provided by the analytical laboratory, TRC determined that there were unresolvable issues related to data quality. These issues brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background water quality data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19). During the April 2019 sampling event, a groundwater sample from one well per CCR unit was split between two analytical laboratories to assess ongoing issues with the analytical laboratory. For the APH Pond, MW-63 was

selected for split sampling. The chloride (408 mg/L) and sulfate (352 mg/L) concentrations in the split sample were less than their respective UTLs, while the concentrations reported by the original laboratory were greater than their respective UTLs. This supports the line of reasoning and likelihood that laboratory analytical issues were an alternative source for the historic SSIs and likely resulted in tolerance limits that are not representative of the natural variability of these analytes in the vicinity of the APH Pond.

As discussed in the third detection monitoring ASD (September 2019) for the APH Pond, NRG concluded that the original background water quality data set reflects persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly samples are being collected over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new quarterly background groundwater samples were collected in July 2019 and the eighth and final quarterly background samples will be collected during the second quarter 2021.

During the timeframe of collecting the new background samples, the original background UTLs will continue to be used for statistical evaluation of the semiannual detection monitoring results. ASDs will continue to be prepared as needed for apparent SSIs based on the original background data set until the new background water quality data set has been developed.

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

Section 3

Conclusions

Statistical evaluation identified two apparent SSIs (chloride in upgradient monitoring well MW-39 and sulfate in downgradient monitoring well MW-63). This ASD has identified the following lines of reasoning that support alternative sources for both apparent SSIs:

- One of the apparent SSIs (chloride in MW-39) was identified in an upgradient monitoring well. Therefore, this apparent SSI appears to be related to natural variations in background groundwater quality.
- Sulfate was an apparent SSI for MW-63. As discussed in previous ASDs, comparison UTLs for the original background groundwater quality data were affected both by the very short baseline period they were collected in and by identified issues with laboratory analyses. However, comparisons to the original background UTLs are continuing until the new quarterly background groundwater quality data set are developed and updated UTLs can be calculated.

In addition, based on persistent, unresolvable data quality issues with the analytical laboratory, NRG has concluded that the original background water quality data set is not valid for use for statistical analysis under the CCR Rule. Therefore, NRG concluded that the existing background water quality data set for the APH Pond is unreliable and a new background data set is being developed. Until the new background data set has been developed, the existing background data set will continue to be used for statistical evaluation of the semiannual detection monitoring data. It should be noted that the eighth quarterly background monitoring event will be performed during the second quarter 2021.

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the APH Pond have been shown to likely be responsible for both of the apparent SSIs observed. Based on preparation of this successful ASD, NRG will continue detection monitoring for the APH Pond.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station APH Pond has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

Name: Richard Varnell

Expiration Date: 6/30/2021

Company: TRC Environmental Corporation

Date: 6/10/2021

FERM # 3775



Section 5

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Alternative Source Demonstration

**W.A. Parish Electric Generating Station
Solid Waste Disposal Area (SWMU 001) CCR Multiunit**

November 2021

*Prepared For
NRG Texas Power, LLC
Thompsons, Texas*

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Senior Engineer

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Senior Project Manager

*TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, W.A. Parish, Solid Waste Disposal Area (SWMU 001)*

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has three active CCR units that are managed pursuant to the CCR Rule, including the Solid Waste Disposal Area (SWDA) multiunit, which is the subject of this Alternate Source Demonstration (ASD).

The eighth groundwater detection monitoring event was conducted in April 2021. Laboratory analytical data were received by NRG on June 1, 2010. Statistical evaluation of the Appendix III detection monitoring parameters was completed by August 29, 2021, to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified one apparent SSI in an upgradient monitoring well at the SWDA. This ASD (prepared in accordance with 257.94(e)) successfully identified alternative sources for the potential SSI. Therefore, detection monitoring will be continued for the SWDA multiunit.

As presented in the ASD for the third semiannual detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background water quality data set is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new background event was conducted during the third quarter of 2019. The original background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring results until eight rounds of quarterly background detection monitoring had been completed and the new background water quality data set was developed. The eighth quarterly detection monitoring event coincided with the eighth semiannual detection monitoring event in April 2021. The original background water quality data set was used to identify SSIs for the April 2021 (eighth semiannual) detection monitoring event. The new background water quality data set will be used for statistical evaluation of detection monitoring results beginning with the ninth semiannual detection monitoring event (October 2021).

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of three active CCR-management cells - Cell 1C, Cell 2B, and Cell 3; and Cell 2A, which is not currently being used for CCR management purposes. The four cells are monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area and the APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The SWDA multiunit is the subject of this Alternative Source Demonstration (ASD).

CCR-management activities at the SWDA are generally described as follows:

- Cell 1C – Receives nonmarketable CCR trucked from the plant;
- Cell 2B – Receives marketable CCR trucked from the plant;
- Cell 3 – Receives CCR bottom ash trucked from the plant; and
- Cell 2A-Pug Mill – Pug mill located at a small portion of closed Cell 2A and that is not currently being used for CCR management purposes.

NRG initially managed these four active CCR-management cells under the CCR Rule as four individual CCR units, as reflected in the initial certifications by a Texas professional engineer (P.E.) of the four individual groundwater monitoring systems (October 17, 2017) and as reflected in the *Annual Groundwater*

Monitoring Report (ERM, January 30, 2018) and the four individual *CCR Groundwater Monitoring Reports* (ERM, March 1, 2018). Following completion of the first semiannual detection monitoring ASD in July 2018, the four active CCR management cells were combined into a single CCR multiunit for subsequent groundwater monitoring and statistical evaluation pursuant to §257.91(d). The groundwater monitoring network and statistical methods certifications were revised during July 2018 and certified by a Texas P.E.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring event in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring and Corrective Action Reports* (January 30, 2018) for the individual CCR landfill units (Cell 1C, Cell 2A, Cell 2B, and Cell 3) and the *CCR Groundwater Monitoring Reports* (March 1, 2018) for the individual CCR landfill units pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the individual cells of the SWDA for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSIs and completed a successful Alternative Source Demonstration (ASD) in July 2018. The ASD was placed into the facility's operating record (FOR) and was provided with the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed in October 2018 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified two apparent SSIs in two monitoring wells. TRC completed a successful ASD in April 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit in July 2019. The statistical evaluation identified seven apparent SSIs, three of which were identified in upgradient wells. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The fourth semiannual detection monitoring event was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified one apparent SSI, which was identified in an upgradient well. TRC

completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

Two of the downgradient monitoring wells (MW-46 and MW-55) had consistent or intermittent high pH values measured during groundwater monitoring events. The measurements were consistent with grout potentially being present at the screened intervals for both monitoring wells. Therefore, both wells were replaced. Replacement wells (MW-46R and MW-55R) were installed and developed in March 2019 prior to the April 2019 fourth detection monitoring sampling event. Subsequent pH readings for both replacement wells have been consistent with background water quality.

The fifth semiannual detection monitoring event was conducted in October 2019. Laboratory analytical data were received by NRG in October 2019. Statistical evaluation was completed in January 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified one apparent SSI. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* (January 2021) for the Station.

The sixth semiannual detection monitoring event was conducted in April 2020. Statistical evaluation was completed in July 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified one potential SSI in an upgradient well. TRC completed a successful ASD in October 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* (January 2021) for the Station.

The seventh semiannual detection monitoring event was conducted in October 2020. Statistical evaluation was completed in February 2021 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified three apparent SSIs in an upgradient well. TRC completed a successful ASD in May 2021. The ASD was placed into the FOR and will provided with the *2021 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

1.2 Purpose

TRC prepared this ASD to evaluate the apparent SSI above background for the eighth semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

Based on the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Station is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the

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Alternate Source Demonstration, W.A. Parish, Solid Waste Disposal Area (SWMU 001)*

SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh and mud-flat deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the Station are under confined conditions.

Site investigations conducted in May 2016 and November 2016 identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the Station. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is $2.85E-08$ centimeters per second (cm/sec) and $2.03E-08$ cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer System)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2 and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the upper aquifer system at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 Solid Waste Disposal Area – Hydrogeology

Four separate groundwater monitoring well systems were initially developed in 2016 for each of the four active CCR-management cells, which were certified by a Texas P.E. under 257.91(f) on October 17, 2017. The monitoring wells were completed into Stratum DA-2, the upper aquifer system at the Station.

Following successful completion of the first semiannual detection monitoring ASD in July 2018, the four individual CCR-management units were combined into a single CCR multiunit. A revised groundwater monitoring system and revised statistical method were developed and certified by a Texas P.E. for the SWDA CCR multiunit. The monitoring wells comprising the revised groundwater monitoring system is summarized in Table 1.

Because of potential integrity issues with the construction of background monitoring well MW-23 (recent high pH values), it was replaced by MW-23R in close proximity to MW-23. Historically, groundwater flows primarily to the northeast beneath the SWDA CCR multiunit at a gradient ranging from 0.0007 foot per foot (ft/ft) to 0.003 ft/ft.

Table 1 Groundwater Monitoring System for SWDA CCR-Multiunit

UPGRADIENT WELLS	DOWNGRADIENT WELLS
MW-23R, MW-28D, MW-42, MW-43, MW-47, and MW-48	MW-44, MW-46R, MW-50, MW-52, MW-54, MW-55R, MW-58, and MW-65

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE

FGD
EMERGENCY
POND

W. JONES RD.

AIR
PREHEATER
POND

SMITHERS LAKE RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name- K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19

Section 2

Alternative Source Demonstration

The seventh semiannual detection monitoring event was conducted in October 2021. Laboratory analytical data were received by NRG on November 6, 2020. Statistical evaluation to identify apparent SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units in February 2021. The statistical evaluation identified three apparent SSIs (calcium, chloride, and field pH in upgradient monitoring well MW-23) as presented in Table 2 below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.93(e)(2).

Table 2 SSIs – April 2021 Semiannual Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Field pH	MW-55R (DG)	6.9	10.6	4/9/2021	6.73	S.U.

The apparent SSI was identified for downgradient monitoring well MW-55R. The SSI is for a pH value that is slightly below the lower tolerance limit for pH of 6.9 standard units.

Based on TRC’s validation of semiannual detection monitoring water quality data provided by the analytical laboratory, TRC has determined that there are unresolvable issues regarding data quality. These issues have brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19).

As discussed in the third semiannual detection monitoring ASD (September 2019) for the SWDA, NRG has concluded that the original background water quality data set reflects persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly samples were collected over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new background groundwater samples were collected in July 2019 and final quarterly background samples were collected in April 2021.

During collection of the eight new quarterly detection monitoring background samples, the original background upper tolerance limits continued to be used for statistical evaluation of the semiannual

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

detection monitoring results. The new background water quality data set will be used for SSI evaluation beginning with the second 2021 semiannual detection monitoring event (October 2021).

Section 3

Conclusions

An apparent SSI was identified in downgradient well MW-55R. This SSI is likely an artifact of the short initial baseline for background groundwater quality.

Based on persistent, unresolvable data quality issues with the analytical laboratory, NRG has concluded that the original background water quality data set is not valid for use for statistical analysis under the CCR Rule. Therefore, NRG has concluded that the existing background water quality data set for the Landfill was unreliable, and a new background water quality data set would be developed. Until the new background water quality data set was completed, the existing background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring data. The final new background quarterly detection monitoring samples were collected in April 2021 and the new background water quality data set will be used for evaluation of SSIs beginning with the second semiannual detection monitoring event for 2021 (October 2021).

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the SWDA have been shown to likely be responsible for the apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the SWDA multiunit.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station SWDA CCR multiunit has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

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Expiration Date: 6/30/2022

Company: TRC Environmental Corporation

Date: 11/26/2021

Richard Varnell



Firm # 3775

Section 5

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- BEG 1982. Geologic Atlas of Texas, Houston Sheet. The University of Texas at Austin, Bureau of Economic Geology. Revised 1982.
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- TRC 2018c. *Statistical Methods Certification – WA Parish Electric Generating Station*. TRC, August 2018.
- TRC 2019a. *2018 Annual Groundwater Monitoring Report: WA Parish Generating Station*. TRC, January 2019.
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Alternative Source Demonstration

W.A. Parish Electric Generating Station FGD Emergency Pond (SWMU 020)

November 2021

*Prepared For
NRG Texas Power, LLC
Thompsons, Texas*

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Tony Dworaczyk, P.G.
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Alternate Source Demonstration, W.A. Parish, FGD Emergency Pond (SWMU 020)*

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has three active CCR units that are managed pursuant to the CCR Rule, including the FGD Emergency Pond (E Pond, SWMU 020), which is the subject of this Alternate Source Demonstration (ASD).

The eighth semiannual groundwater detection monitoring event was conducted in April 2021. Laboratory analytical data were received by NRG on June 1, 2021. Statistical evaluation of the Appendix III detection monitoring parameters was completed by August 29, 2021 to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified apparent SSIs in monitoring wells at the E Pond. This ASD (prepared in accordance with 257.94[e]) successfully identified alternative sources for the apparent SSIs. Therefore, detection monitoring will continue for the E Pond.

As presented in the ASD for the third semiannual detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new background event was conducted during the third quarter of 2019. The original background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring results until eight rounds of quarterly background detection monitoring had been completed and the new background water quality data set was developed. The eighth quarterly detection monitoring event coincided with the eighth semiannual detection monitoring event in April 2021. The original background water quality data set was used to identify SSIs for the April 2021 (eighth semiannual) detection monitoring event. The new background water quality data set will be used for statistical evaluation of detection monitoring results beginning with the ninth semiannual detection monitoring event (October 2021).

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity-generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency's (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II Nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of three active CCR-management cells - Cell 1C, Cell 2B, and Cell 3; and Cell 2A, which is not currently being used for CCR management purposes. The four cells are monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area. The APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The E Pond (SWMU 020) is the subject of this Alternative Source Demonstration (ASD).

According to NRG, the E Pond comprises an area of approximately 0.5 acres and has dimensions of approximately 200 feet by 110 feet. The E pond receives storm water runoff from the FGD dewatering area and blowdown from the FGD system. The E Pond may also receive the contents of an FGD process vessel when the FGD system is not in operation.

During 2021, the E Pond is being retrofitted per the CCR Rule. The E Pond was taken out of service, all CCR was removed, and the E Pond was decontaminated. A bottom composite liner system compliant with the CCR Rule has been installed and the E Pond will be placed back into service as a CCR unit.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring event in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring Report, FGD Emergency Pond (Unit 020)* (ERM 2018a) and the March 1, 2018, *Groundwater Monitoring Report, FGD Emergency Pond (SWMU Unit 020)* (ERM 2018b) pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the E Pond for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSIs and completed a successful *Alternative Source Demonstration (ASD)* in July 2018. The ASD was placed into the facility's operating record (FOR) and was appended to the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

Based on field observations during the second detection monitoring that were provided in the ASD (July 2018), surficial CCR may have been inadvertently introduced into the wells and the laboratory analytical sample containers during the initial background and semiannual detection monitoring events. Therefore, the flush-mounted monitoring wells at the E Pond were modified before the third semiannual detection monitoring event was performed with the installation of vertical well casing extensions and protective casings. These well modifications were designed to reduce the potential for the inadvertent introduction of CCR into the wells during groundwater monitoring. Furthermore, additional care was taken during the third semiannual detection monitoring event to minimize the potential for CCR to be inadvertently introduced into the laboratory analytical sample containers during sample collection.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed in October 2018 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified 11 apparent SSIs in the three downgradient monitoring wells. Although, water quality in the downgradient monitoring wells had improved, apparent SSIs continued to be observed. TRC completed a successful ASD in April 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified nine apparent SSIs in the three downgradient monitoring wells. During the third semiannual detection monitoring event, field personnel observed the presence of silt in monitoring wells at the E Pond. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The wells were redeveloped, and accumulated silt was removed from the well casings prior to the collection of groundwater samples during the fourth semiannual detection monitoring event that was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified 11 apparent SSIs, one of which was identified in an upgradient well. TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

In July 2019, MW-38 was severely damaged by mobile plant equipment. MW-38 was abandoned and MW-38R was installed immediately adjacent to the location of former MW-38.

The fifth semiannual detection monitoring event was conducted in October 2019. Laboratory analytical data were received by NRG in October 2019. Statistical evaluation was completed in January 2020 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four apparent SSIs. TRC completed a successful ASD in April 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

The sixth semiannual detection monitoring event was conducted in April 2020. Statistical evaluation was completed in July 2020 to identify apparent SSIs pursuant to 257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified six apparent SSIs. TRC completed a successful ASD in October 2020. The ASD was placed into the FOR and was provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

The seventh semiannual detection monitoring event was conducted in October 2020. Statistical evaluation was completed in February 2021 to identify SSIs pursuant to 257.93(f) and (g) and the revised groundwater monitoring system and revised statistical method certified in July 2018. The statistical evaluation identified six apparent SSIs. TRC completed a successful ASD in May 2021. The ASD was placed into the FOR and will be provided with the *2021 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

1.2 Purpose

TRC prepared this ASD to evaluate apparent SSIs above background levels for the eighth semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

Based on the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Station is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh, and mud-flat deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the Site are under confined conditions (ERM, 2017).

Site investigations conducted in May 2016 and November 2016 identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the Site. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is $2.85\text{E-}08$ centimeters per second (cm/sec) and $2.03\text{E-}08$ cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2

and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the uppermost groundwater-bearing unit at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 E Pond – Hydrogeology

The certified CCR groundwater monitoring well network for the E Pond consists of five groundwater monitoring wells (MW-36, MW-37, MW-38R, MW-60, and MW-61):

- Upgradient monitoring wells MW-36 and MW-60; and
- Downgradient monitoring wells MW-37, MW-38R, and MW-61.

The E Pond monitoring wells were completed into Stratum PA-2, the upper aquifer system at the Station. Historically, groundwater flows to the southwest beneath the E Pond at a gradient ranging from 0.010 feet per foot (ft/ft) to 0.030 ft/ft.

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE

FGD
EMERGENCY
POND

W. JONES RD.

AIR
PREHEATER
POND

SMITHERS LAKE RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19

Section 2

Alternative Source Demonstration

The eighth semiannual detection monitoring event was conducted in April 2021. Laboratory analytical data were received by NRG on June 1, 2021. Statistical evaluation to identify apparent SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units by August 29, 2021. The statistical evaluation identified five apparent SSIs as presented in Table 1 below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.94(e)(2).

Table 1 SSIs – April 2021 Semiannual Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-37	N/A	0.160	4/9/20201	0.384	mg/L
Boron	MW-38R	N/A	0.160	4/9/20201	0.398	mg/L
Boron	MW-61	N/A	0.160	4/9/20201	1.19	mg/L
Chloride	MW-60 (UG)	N/A	359	4/9/20201	376	mg/L
TDS	MW-37	N/A	1,958	4/9/20201	2,080	mg/L

Based on the presence of an upper confining layer (Stratum PA-1) that is present between the bottom of the E Pond and the underlying upper aquifer system (Stratum PA-2) and the observation of surficial CCR in the area of the monitoring wells, the following lines of reasoning appear to support the conclusion that the five apparent SSIs observed above background levels likely originate from a source or sources other than the E Pond:

- The bottom of the E Pond is separated from the upper aquifer system by a confining unit (Stratum PA-1) that hydraulically isolates the bottom of the E Pond from the upper aquifer system (Stratum PA-2). Available data indicate the upper aquifer system is under confined conditions and the confining unit (Stratum PA-1) acts as a vertical hydraulic barrier between the bottom of the E Pond and the upper aquifer system (Stratum PA-2), based on the following lines of reasoning:
 - Based on review of the boring logs for the groundwater monitoring wells installed at the E Pond, the upper clay confining unit (Stratum PA-1) was present at each monitoring well from the ground surface to depths ranging from 19 feet bgs to 32 feet bgs [i.e., thickness ranging from 19 feet to 32 feet; corresponding to elevations of about 53 to 49 feet above mean sea level (amsl)]. The bottom of the E Pond is located within Stratum PA-1 with the bottom of the clay liner at an elevation of about 60 feet amsl); therefore, Stratum PA-1 acts

as a confining layer between the bottom of the E Pond and the underlying upper aquifer system (Stratum PA-2).

- Based on geotechnical laboratory results for a soil sample collected from Stratum PA-1 at a depth of 10 feet bgs, Stratum PA-1 is a lean clay with a hydraulic conductivity of $2.03E-8$ centimeters per second (ERM 2017b), which is consistent with an impervious lithologic unit that exceeds the required specifications per 40 CFR §257.71(a) for a compacted bottom clay liner for a CCR impoundment.
- The E Pond is located at an active power generating area at the Plant Area and non CCR-related and CCR-related materials are actively managed near the E Pond. For example, the FGD loadout pad immediately adjoins the E Pond. The presence of non CCR-related and CCR-related materials near the E pond monitoring wells may be a potential source for some or all of the apparent SSIs identified in groundwater samples collected from wells located downgradient of the E Pond, as described further below. The E Pond monitoring wells were installed as flush-mounted wells, which may have enabled surface materials to incidentally enter the groundwater monitoring wells during sampling activities.

Prior to the third semiannual detection monitoring event, NRG modified the monitoring wells by installing casing extensions and protective casings to protect the wells from the accidental introduction of CCR materials directly into groundwater samples during sample collection. The wells were further redeveloped prior to the fourth sampling event. Although the wells have been improved and sampling collection methods modified, groundwater/groundwater samples may still be affected by the inadvertent introduction of surficial CCR into the monitoring wells and/or groundwater samples during sample collection.

In July 2019, equipment working in the vicinity of the E Pond inadvertently damaged MW-38. The well was replaced by new monitoring well MW-38R in August 2019, which was installed immediately adjacent to former MW-38. Following well development, groundwater samples were collected from the replacement monitoring well on August 5, 2019. Table 2 provides a comparison of the April 30, 2019, Appendix III analytical results for MW-38 and the August 5, 2019 analytical results for MW-38R.

The August samples were analyzed by a different analytical laboratory and by the methods described below. While the results for two analytes remain higher than the UTLs, they indicate improved water quality. These results indicate that technical issues with MW-38 were likely responsible for elevated concentrations of some Appendix III constituents in that well. It is likely that these monitoring well issues and other issues with materials present in the vicinity of the monitoring wells have allowed a pathway for constituents to reach the groundwater by a pathway other than migration directly from the E Pond.

Table 2 Replacement Well Analytical Results

ANALYTE	UTL	UNIT	MW-38 4/29/2019	MW-38R 8/5/2019
Boron	0.16	mg/L	2.01	0.359
Calcium	301	mg/L	454	323
Chloride	359	mg/L	661 JL	180
Fluoride	7	mg/L	0.817	0.52
Field pH	6.4 – 7.1	S.U.	6.79	6.83
Sulfate	1,070	mg/L	855 JL	775
Total Dissolved Solids	1,958	mg/L	2,710	1,870

Results above detection limits are bolded
 Results above the UTL are highlighted
 JL Estimated result with a low bias

Based on validation of the original background and semiannual detection monitoring events provided by the analytical laboratory, TRC determined that there are unresolvable issues regarding data quality. These issues have brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background water quality data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19).

During the April 2019 fourth semiannual detection monitoring event, a groundwater sample from one well per CCR unit was split between two analytical laboratories to assess the ongoing issues with the analytical laboratory. For the E Pond, MW-37 was selected for split sampling. The split samples for chloride and TDS each had one result that was a potential SSI and one results that was not . While the TDS results between the two laboratories are relatively close and merely straddle the background UTL concentration, the chloride results are substantially different (a circumstance that was also observed for the other spilt samples). This provides support for the line of reasoning and likelihood that laboratory analytical issues are an alternative source for the chloride UTL exceedance, because the initial UTLs were calculated with data that had unresolvable quality issues.

As discussed in the third detection monitoring ASD (September 2019) for the E Pond, NRG concluded that the original background water quality data set reflected persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly samples were collected over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new background groundwater

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

samples were collected in July 2019 and the final new background groundwater samples were collected in April 2021.

During collection of the eight new quarterly detection monitoring background samples, the original background upper tolerance limits continued to be used for statistical evaluation of the semiannual detection monitoring results. The new background water quality data set will be used for SSI evaluation beginning with the second 2021 semiannual detection monitoring event (October 2021).

Section 3

Conclusions

Statistical evaluation identified five apparent SSIs, including one in an upgradient monitoring well. This ASD has identified the following lines of reasoning that support alternative sources for these apparent SSIs:

- The bottom of the E Pond clay liner is separated from the upper aquifer system by a confining unit that hydraulically isolates the bottom of the E Pond from the upper aquifer system. Improperly installed or damaged monitoring wells may have provided a conduit for CCR constituents to migrate into the upper aquifer system.
- The presence of CCR materials in the vicinity of the monitoring wells prior to their modification to include risers from the ground surface provided an opportunity for surface materials to inadvertently enter the wells directly from the ground surface.
- Water quality improved incrementally with each improvement to the CCR groundwater monitoring system. In July 2019, MW-38 was severely damaged by mobile plant equipment. MW-38 was abandoned and MW-38R was installed immediately adjacent to MW-38. August 2019 water quality analysis for MW-38R indicated significantly improved overall groundwater quality data.

In addition, based on persistent, unresolvable data quality issues with the analytical laboratory, NRG has concluded that the original background water quality data set is not valid for use for statistical analysis under the CCR Rule. Therefore, NRG has concluded that the existing background water quality data set for the E Pond was unreliable, and a new background water quality data set would be developed. Until the new background water quality data set was completed, the existing background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring data. The final new background quarterly detection monitoring samples were collected in April 2021 and the new background water quality data set will be used for evaluation of SSIs beginning with the second semiannual detection monitoring event for 2021 (October 2021).

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the E Pond have been shown to likely be responsible for each of the five apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the E Pond.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station E Pond has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

Name: Richard Varnell Expiration Date: 6/30/2022

Company: TRC Environmental Corporation Date: 11/26/2021

Richard Varnell



Firm #3775

Section 5

References

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Alternative Source Demonstration

W.A. Parish Electric Generating Station Air Preheater Pond (SWMU 021)

November 2021

*Prepared For
NRG Texas Power, LLC
Thompsons, Texas*

A handwritten signature in blue ink that reads "Richard Varnell".

Richard D. Varnell, P.G., P.E.
Senior Engineer

A handwritten signature in black ink that reads "Tony Dworaczyk".

Tony Dworaczyk, P.G.
Geologist/Project Manager

*TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, W.A. Parish, Air Preheater Pond*

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Executive Summary

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas. Units managing coal combustion residuals (CCR) at the Station are subject to management under the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule). CCR generated at the Site consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Site has three active CCR management units that are subject to regulation under the CCR Rule, including the Air Preheater Pond (APH) Pond, which is the subject of this Alternate Source Demonstration (ASD).

The eighth semiannual groundwater detection monitoring event was conducted in April 2021. Laboratory analytical data were received by NRG on June 1, 2021. Statistical evaluation of the Appendix III detection monitoring parameters was completed by August 29, 2021, to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified three apparent SSIs in monitoring wells at the APH Pond, one of which is associated with an upgradient monitoring well. This ASD (prepared in accordance with 257.94[e]) successfully identified alternative sources for the apparent SSIs. Therefore, detection monitoring will continue for the APH Pond.

As presented in the ASD for the third semiannual detection monitoring event, persistent, unresolvable issues with data quality have necessitated establishment of a new background water quality data set. This new background water quality data set is being developed for both Appendix III and Appendix IV CCR constituents collected quarterly over a two-year period. The first new background event was conducted during the third quarter of 2019. The original background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring results until eight rounds of quarterly background detection monitoring had been completed and the new background water quality data set was developed. The eighth quarterly detection monitoring event coincided with the eighth semiannual detection monitoring event in April 2021. The original background water quality data set was used to identify SSIs for the April 2021 (eighth semiannual) detection monitoring event. The new background water quality data set will be used for statistical evaluation of detection monitoring results beginning with the ninth semiannual detection monitoring event (October 2021).

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) W.A. Parish Electric Generating Station (Station) is located in Thompsons, Fort Bend County, Texas, adjacent to Smithers Lake. The electricity generating portion of the Station, or the main Plant Operations Area (Plant Area), is located along the southeastern shore of the lake.

Management of coal combustion residuals (CCR) at the Station is performed pursuant to the United States Environmental Protection Agency (USEPA) final rule for the regulation and management of CCR under the Resource Conservation and Recovery Act (RCRA) Title 40, Code of Federal Regulations, Part 257 (40 CFR §257) (CCR Rule, effective date October 17, 2015) and the Phase 1, Part 1 final rule (July 30, 2018). CCR generated at the Station consist of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge, which have been classified by the Texas Commission on Environmental Quality (TCEQ) as Class II Nonhazardous waste. The Station has the following three active CCR-management units:

- Solid Waste Disposal Area (SWDA) (SWMU 001), which consists of four active CCR-management cells: Cell 1C, Cell 2A-Pug Mill, Cell 2B, and Cell 3; and is now monitored as a single CCR Multiunit;
- Air Preheater Pond (APH Pond, SWMU 021); and
- FGD Emergency Pond (E Pond, SWMU 020).

The SWDA is located to the north of the Plant Area. The APH and E Ponds are located at the southern portion of the Plant Area. The locations of the three CCR units are shown on Figure 1. The APH Pond (SWMU 021) is the subject of this Alternative Source Demonstration (ASD).

According to NRG, the APH Pond comprises an area of 1.2 acres and has a total storage capacity of 3.7 acre-feet. The APH Pond receives effluent from air preheater wash and boiler cleaning wash, which consists of fly ash or economizer ash particles and water.

During 2020 and 2021, the APH Pond was retrofitted per the CCR Rule. The APH Pond was taken out of service, all CCR was removed, and the APH Pond was decontaminated. A CCR Rule bottom composite liner system was then installed and the APH Pond was placed back into service as a CCR unit.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater detection monitoring events for both the Appendix III and IV CCR constituents between April 2015 and August 2017 per §257.94(b) and the first semiannual detection monitoring

event in October 2017. Results of the eight background and first semiannual detection monitoring events were documented in the *Annual Groundwater Monitoring Report, APH Pond (Unit 021)* (ERM 2018a) and the March 1, 2018, *Groundwater Monitoring Report, APH Pond (SWMU Unit 021)* (ERM 2018b) pursuant to §257.90(e). ERM identified apparent SSIs above background in groundwater for the APH Pond for the first semiannual detection monitoring event. TRC Environmental Corporation (TRC) evaluated the apparent SSI and completed a successful *Alternative Source Demonstration (ASD)* in July 2018. The ASD was placed into the facility's operating record (FOR) and was appended to the *2018 Annual Groundwater Monitoring and Corrective Action Report* (January 2019) for the Station.

The second semiannual detection monitoring event was conducted in May 2018. Laboratory analytical data were received by NRG in July 2018. Statistical evaluation was completed to identify SSIs pursuant to §257.93(f) and (g) in October 2018, and no SSIs were identified.

The third semiannual detection monitoring event was conducted in October 2018. Laboratory analytical data were received by NRG in December 2018. Statistical evaluation was completed in March 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units certified in July 2018. The statistical evaluation identified three apparent SSIs (boron and chloride in upgradient monitoring well MW-39 and sulfate in downgradient monitoring well MW-63). TRC completed a successful ASD in September 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

The fourth semiannual detection monitoring event was conducted in April 2019. Laboratory analytical data were received by NRG in May 2019. Statistical evaluation was completed in August 2019 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified five apparent SSIs, two of which were identified in upgradient wells. TRC completed a successful ASD in November 2019. The ASD was placed into the FOR and was provided with the *2019 Annual Groundwater Monitoring and Corrective Action Report* (January 2020) for the Station.

No apparent SSIs were identified for the APH Pond during the fifth (October 2019) and sixth (April 2020) semiannual detection monitoring events.

The seventh semiannual detection monitoring event was conducted in October 2020. Laboratory analytical data were received by NRG in November 2020. Statistical evaluation was completed in February 2021 to identify apparent SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two apparent SSIs (chloride in upgradient monitoring well MW-39 and sulfate in downgradient monitoring well MW-63). TRC completed a

successful ASD in May 2021. The ASD was placed into the FOR and will be provided with the 2021 *Annual Groundwater Monitoring and Corrective Action Report* for the Station.

1.2 Purpose

TRC prepared this ASD to evaluate apparent SSIs above background levels for the eighth semiannual detection monitoring event in accordance with §257.94(e).

1.3 Hydrogeology

According to the *Geologic Atlas of Texas, Houston Sheet* (BEG 1982), the Site is underlain by alluvium and the Beaumont formation (also commonly referred to as Beaumont Clay). The alluvium is present along the Brazos River, which is located approximately 0.9 miles from the northern boundary of the SWDA CCR units. Both the alluvium and the Beaumont formation are composed of clay, silt, and sand; and may include stream channel, point-bar, natural levee, back swamp, coastal marsh, and mud-flat deposits. The thickness of the Beaumont formation is approximately 100 feet. The alluvium is not present at the Plant Area which is consistent with this area being located outside of the Brazos River floodplain zone (FBC 2018).

The alluvium and Beaumont Formation are located within the upper unit of the Chicot aquifer system. At most locations throughout Fort Bend County, the Chicot aquifer system is under confined conditions (TWDB 1990). The Chicot aquifer system is primarily recharged by precipitation at locations where it outcrops in Austin, Harris, and Waller Counties; groundwater then flows laterally within Fort Bend County (TWDB 1990). Site investigations performed by others on behalf of NRG also indicate that the uppermost groundwater-bearing units at the site are under confined conditions.

Site investigations conducted in May 2016 and November 2016 by ERM identified three main subsurface strata at the Station, which were designated as Stratum DA-1 through DA-3 at the SWDA and Stratum PA-1 through PA-3 at the Plant Area. The strata are fully described in the October 2017 *CCR Groundwater Monitoring Networks* report (ERM 2017b) and are summarized below.

1.3.1 Stratum DA-1 and Stratum PA-1 (Upper Confining Unit)

Stratum DA-1 and Stratum PA-1 are both predominately silty clay with some sandy clay, clay, and sandy silt. Stratum DA-1 is generally present from the ground surface to approximately 30 feet below ground surface (bgs), but this stratum ranges in thickness from 20 to 60 feet throughout the SWDA. Stratum PA-1 is present from the ground surface to depths ranging from 15 feet bgs to 32 feet bgs.

Stratum DA-1 and Stratum PA-1 both serve as confining units to underlying Stratum DA-2 and Stratum PA-2, respectively, which comprise the uppermost groundwater-bearing unit at the

Site. Geotechnical laboratory testing indicates that the hydraulic conductivity of Stratum DA-1 and Stratum PA-1 is 2.85E-08 centimeters per second (cm/sec) and 2.03E-08 cm/sec, respectively (ERM 2017b).

1.3.2 Stratum DA-2 and Stratum PA-2 (Upper Aquifer)

Stratum DA-2 consists of interbedded sand, silty sand, clayey sand, and clayey sandy silt with some gravelly sand. The clay content within Stratum DA-2 varies across the SWDA. Stratum PA-2 is predominantly silty sand with varying sand and silt content and trace clay. Stratum DA-2 and Stratum PA-2 are generally greater than 10 feet in thickness with bottom depths ranging from 60 to 80 feet bgs.

Both Stratum DA-2 and Stratum PA-2 are saturated and comprise the uppermost groundwater-bearing unit at the CCR units. CCR monitoring wells in the SWDA and Plant Area are completed within Stratum DA-2 and Stratum PA-2, respectively. Slug testing results for CCR monitoring wells indicate hydraulic conductivity ranges from 6.86E-04 cm/sec to 2.59E-02 cm/sec in Stratum DA-2; and from 6.68E-04 cm/sec to 4.26E-02 cm/sec in Stratum PA-2 (ERM 2017b). Groundwater primarily flows to the northeast towards the Brazos River beneath the SWDA; to the southwest beneath the E Pond, and to the southeast beneath the APH Pond.

1.3.3 Stratum DA-3 and Stratum PA-3 (Lower Confining Unit)

Stratum DA-3 and Stratum PA-3 are both predominantly clay to silty clay. These strata appear to be bottom confining layers to the overlying groundwater-bearing units (Stratum DA-2 and Stratum PA-2). The thicknesses of Stratum DA-3 and Stratum PA-3 have not been defined.

1.3.4 Air Preheater Pond - Hydrogeology

The certified CCR monitoring well network for the APH Pond consists of six groundwater monitoring wells (MW-39, MW-40, MW-41, MW-62, MW-63, and MW-64) completed into Stratum PA-2. Historically, groundwater flows to the southeast beneath the APH Pond at a gradient ranging from approximately 0.002 feet per foot (ft/ft) to 0.006 ft/ft.

The groundwater monitoring system for the APH Pond was originally certified under 257.91(f) on October 17, 2017. The original certified CCR monitoring well network for the APH Pond designated one upgradient monitoring well (MW-62) and five downgradient monitoring wells (MW-39, MW-40, MW-41, MW-63, and MW-64). However, based on TRC's review of groundwater elevations measured during semiannual detection monitoring events and development of revised potentiometric surface maps, two of the initially designated downgradient monitoring wells (MW-39 and MW-40) are located upgradient of the APH Pond. Therefore, the CCR monitoring well system for the APH Pond has been revised and consists of

three upgradient monitoring wells (MW-39, MW-40, and MW-62) and three downgradient monitoring wells (MW-41, MW-63, and MW-64).

During retrofit construction activities for the APH Pond, upgradient groundwater monitoring well MW-39 was destroyed. A replacement monitoring well (MW-39R) was installed during 2021 in close proximity to the location of former well MW-39.

IMAGERY SOURCE: Google Earth (10/28/2017)



0 900' 1,800'
SCALE IN FEET
1" = 1,800'-0"

F.M. 2759 - THOMPSONS RD.

CELL 1C

CELL 2B

SWDA

PUG MILL

CELL 3

CORTEZ RD.

SMITHERS LAKE

FGD
EMERGENCY
POND

AIR
PREHEATER
POND

TU JONES RD.

SMITHERS LAKE RD.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- SOLID WASTE DISPOSAL AREA

PROJECT: **NRG TEXAS POWER, LLC
W.A. Parish Station
Thompsons, Texas**

TITLE: **CCR UNITS LOCATION MAP**

DRAWN BY: O. Fonseka	PROJECT No.: 294645.0000.0000
CHECKED BY: T. Dworaczyk	FIGURE 1
APPROVED BY: T. Dworaczyk	
DATE: January 2019	



10550 Richmond Ave.
Suite 210
Houston, TX 77042
Phone: 713.244.1000

FILE: Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg

HOU M:\ACAD-TRC\DRAWING\C\CLIENT-Name - K-L-M-N-ON\NRG\W.A. Parish Station - Thompsons-TX\2019 - CCR-Report\ Fig 1-2 - NRG-WAParishStation - CCR Units Location Map.dwg 01/30/19

Section 2

Alternative Source Demonstration

The eighth semiannual detection monitoring event was conducted in April 2021. Laboratory analytical data were received by NRG on June 1, 2010. Statistical evaluation to identify SSIs was completed pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units by August 29, 2021. The statistical evaluation identified three apparent SSIs, one of which is associated with an upgradient monitoring well, as provided in the table below. Section 2.0 evaluates alternative sources for the apparent SSIs as per §257.94(e)(2).

Statistical evaluation of the eighth semiannual detection monitoring event (comparison of downgradient monitoring results to 95 percent confidence/95 percent coverage upper tolerance limits [UTLs] of the background monitoring results) identified two apparent SSIs for the APH Pond, as shown in Table 1.

Table 1 SSIs – April 2021 Semiannual Detection Monitoring Event

ANALYTE	WELL	LTL	UTL	SAMPLE DATE	VALUE	UNIT
Boron	MW-63 (DG)	NA	0.127	4/9/2021	0.130	mg/L
pH	MW-62 (UG)	6.0	6.9	4/9/2021	7.01	S.U.
pH	MW-41 (DG)	6.0	6.9	4/9/2021	7.07	S.U.

One of the apparent SSIs (pH) was identified for upgradient monitoring well MW-62. The original eight background groundwater monitoring samples for the APH Pond were collected during a one-year period from July 2016 through July 2017. The time between sampling events was about 1.5 to 2 months. Because of the short amount of time that the original background water quality data set was collected, it appears likely that the background monitoring period was not fully representative of upgradient groundwater quality and natural variation in groundwater quality at the APH Pond.

Based on TRC’s validation of the original background water quality data set provided by the analytical laboratory, TRC determined that there were unresolvable issues related to data quality. These issues brought into question the accuracy and quality of the data provided by the analytical laboratory to develop the original background water quality data set (see Technical Memos on Laboratory Quality Issues, dated 4-24-19 and Laboratory Change for CCR Sampling Events, dated 7-19-19). During the April 2019 sampling event, a groundwater sample from one well per CCR unit was split between two analytical laboratories to assess ongoing issues with the analytical laboratory. For the APH Pond, MW-63 was selected for split sampling. The chloride (408 mg/L) and sulfate (352 mg/L) concentrations in the split sample were less than their respective UTLs, while the concentrations reported by the original laboratory

were greater than their respective UTLs. This supports the line of reasoning and likelihood that laboratory analytical issues were an alternative source for the historic SSIs and likely resulted in tolerance limits that are not representative of the natural variability of these analytes in the vicinity of the APH Pond.

As discussed in the third semiannual detection monitoring ASD (September 2019) for the APH Pond, NRG concluded that the original background water quality data set reflected persistent quality concerns, should not be relied upon for statistical analysis per the CCR Rule, and must be replaced. To develop a new background water quality data set, eight quarterly detection monitoring sampling events were performed over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹. The first new quarterly background detection monitoring groundwater samples were collected in July 2019 and the eighth and final quarterly background samples were collected in April 2021.

During collection of the eight new quarterly detection monitoring background samples, the original background upper tolerance limits continued to be used for statistical evaluation of the semiannual detection monitoring results. The new background water quality data set will be used for SSI evaluation beginning with the second 2021 semiannual detection monitoring event (October 2021).

¹ In addition to using a different analytical laboratory, the method for fluoride analysis was changed from Method 300.0 (ion chromatography) to Method 340.2 (ion selective electrode) and pH will be measured using two methods – a flow-through cell during purging and a non-flow-through meter at the initiation of sample collection.

Section 3

Conclusions

Statistical evaluation identified three apparent SSIs (pH in upgradient monitoring well MW-62 and in downgradient monitoring well MW-41, and boron in downgradient monitoring well MW-63). This ASD has identified the following lines of reasoning that support alternative sources for both apparent SSIs:

- One of the apparent SSIs (pH in MW-62) was identified in an upgradient monitoring well. Therefore, this apparent SSI appears to be related to natural variations in background groundwater quality. pH at a similar reading was also an apparent SSI at downgradient monitoring well MW-41 and is also subject to the natural variation of groundwater at the APH Pond area. It should be noted that pH occurs within a very narrow range historically, such that small subsequent variations are found to be statistically significant.
- Boron was an apparent SSI for MW-63. As discussed in previous ASDs, comparison UTLs for the original background groundwater quality data were affected both by the very short baseline period they were collected in and by identified issues with laboratory analyses. However, comparisons to the original background UTLs are continuing until the new quarterly background groundwater quality data set are developed and updated UTLs can be calculated.
- Retrofit construction was conducted at the APH pond during late 2020 and early 2021. Disruptions of the subsurface and groundwater conditions due to the construction activities may result in greater than usual variations in constituent concentrations in the short term.

In addition, based on persistent, unresolvable data quality issues with the analytical laboratory, NRG has concluded that the original background water quality data set is not valid for use for statistical analysis under the CCR Rule. Therefore, NRG has concluded that the existing background water quality data set for the APH Pond was unreliable, and a new background water quality data set would be developed. Until the new background water quality data set was completed, the existing background water quality data set continued to be used for statistical evaluation of the semiannual detection monitoring data. The final new background quarterly detection monitoring samples were collected in April 2021 and the new background water quality data set will be used for evaluation of SSIs beginning with the second semiannual detection monitoring event for 2021 (October 2021).

Therefore, based on the lines of reasoning presented in this ASD, alternative sources other than a release from the APH Pond have been shown to likely be responsible for the apparent SSIs observed. Based on preparation of this successful ASD, NRG will continue detection monitoring for the APH Pond.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the WA Parish Electric Generating Station APH Pond has been prepared to meet the requirements of Title 40 CFR 257.94 (e) 2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR 257.94 (e) 2.

Name: Richard Varnell

Expiration Date: 6/30/2022

Company: TRC Environmental Corporation

Date: 11/20/2021

Richard Varnell



Firm # 3775

Section 5

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