



2021 Annual Groundwater Monitoring and Corrective Action Report

Limestone Electric Generating Station, Jewett, Texas

Landfill Unit (Unit 004)

January 31, 2022

*Prepared For
NRG Texas Power, LLC
Jewett, Texas*

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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 Landfill (Unit 004) CCR unit located at the Limestone 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. The Landfill (Unit 004) was the only CCR unit in operation at the Station during 2021. This Annual Report also provides the following information:

- Pursuant to §257.90(e)(6), the groundwater monitoring systems for the Landfill CCR unit 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 Landfill CCR unit 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 Landfill (Unit 004) remain in detection monitoring subject to the following key activities and that the following project timeline be implemented during 2022:

- The CCR unit registration for the Landfill (Unit 004) per the TCEQ CCR Permit Program was 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 within 30 days of placement in the FOR, and posted to the Station's publicly accessible CCR website by March 1, 2022;
- An ASD 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 events 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* for the Landfill (Unit 004) CCR unit located at the Limestone 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 corrective 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 northwest of Jewett, near the borders of Limestone, Freestone, and Leon Counties, Texas (see Figure 1-1). The Station is bisected by Farm-to-Market Road 39 (FM39) with the electricity generating portion of the Station located to the west of FM39 in Limestone County and a solid waste disposal area (SWDA), which includes the Landfill (Unit 004). 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 active CCR unit per the Federal CCR Rule and the TCEQ CCR Permit Program:

- Landfill Unit (Unit 004).

The Landfill is located east of FM39 in the northern portion of the SWDA. The landfill is located to the north of the intermittent Lynn Creek. The Landfill was constructed in 1980 and is used for the final placement of CCR. The Landfill is divided into multiple areas for organization purposes. The western half of the landfill has reached capacity and was capped prior to the effective date of the Federal CCR Rule and the TCEQ CCR Permit Program. CCR is currently being placed at the southern portion of the landfill.

The location of the Landfill is shown on Figure 1-2.

Section 2

Groundwater Monitoring System and Hydrogeology

2.1 Groundwater Monitoring Systems

The groundwater monitoring system for the Landfill CCR unit at the Station consists of a total of 10 monitoring wells installed into the uppermost aquifer, which are described in the subsections below. The locations and identification numbers for the background (or upgradient) and downgradient groundwater monitoring wells that are part of the groundwater monitoring program are shown on Figure 2-1.

2.1.1 Landfill (Unit 004)

The groundwater monitoring system for the Landfill consists of 10 monitoring wells (MW-1, MW-2, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-27R, and MW-28) screened into the uppermost aquifer (see Figure 2-1). Monitoring wells MW-27R and MW-28 are located hydraulically upgradient of the Landfill and monitor background quality in the uppermost aquifer. The remaining eight wells (MW-1, MW-2, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22) are located downgradient of the Landfill and monitor the quality of groundwater in the uppermost aquifer passing beneath the waste boundary of the Landfill.

No groundwater monitoring wells were installed or decommissioned as part of the CCR groundwater monitoring system for the Landfill during 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 three 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.

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 were noted in the monitoring wells during the 2021 quarterly background and semi-annual detection monitoring events.

2.2.2 Quarterly Background Detection Monitoring

Quarterly background groundwater quality detection monitoring samples were collected for the Landfill CCR unit groundwater monitoring system 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.

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 were used for the 2021 semi-annual detection monitoring events 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.

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 three 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, 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, and October 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 the Landfill CCR unit during each of the 2021 detection monitoring sampling events prior to sample collection. These measurements are provided in Table 2-1. 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 Figures 2-2, 2-3, and 2-4.

Groundwater is typically encountered at depths ranging from 1.90 (MW-01) to 30.98 (MW-28) feet below top of casing (btoc) for the Landfill groundwater monitoring system, with the overall direction of groundwater flow beneath and in the vicinity of the Landfill to the south-southeast.

Based on the 2021 detection monitoring groundwater elevation data, there does not appear to be significant seasonal changes in groundwater flow direction at the Landfill CCR unit. The calculated groundwater gradients were variable depending on lithology and ranged from 0.0118 to 0.0031 feet/feet at the Landfill. The average groundwater flow velocity beneath the Landfill was 13 feet/year.

2.5 Monitoring Wells Installed or Decommissioned

No groundwater monitoring wells were installed or decommissioned during 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 Landfill. The April 2021 sampling event was also used for the 2021 semi-annual detection monitoring event. 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 action 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, 2020, and posted to the NRG's publicly accessible CCR website by March 2, 2020;
- The final two quarterly background detection monitoring events for the Landfill CCR unit were performed during January and April 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 Landfill CCR unit;
- The second half 2021 semi-annual detection monitoring event for the Landfill CCR unit was performed during October 2021 and the samples were analyzed for the Appendix III detection monitoring constituents;
- 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 Landfill CCR unit 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 Landfill CCR unit 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 Landfill CCR unit 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.

Based on the successful completion of written ASDs , the Landfill CCR unit remained in detection monitoring during 2021. No corrective action activities were performed for the Landfill CCR unit 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 in 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.

The results of the statistical analysis for the second half 2020 (October 2020) semi-annual detection monitoring event are summarized in the following table. One potential SSI was identified for downgradient monitoring well MW-21, and one potential SSI was identified for upgradient monitoring well MW-28. 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
SSIs – October 2020, Detection Monitoring, Landfill

| ANALYTE | WELL | LTL | UTL | SAMPLE DATE | VALUE | UNIT |
|----------|-------|-----|-------|-------------|-------|------|
| Chloride | MW-28 | N/A | 1,607 | .10/26/2020 | 2,220 | mg/L |
| Boron | MW-21 | N/A | 0.282 | 10/26/2020 | 0.493 | mg/L |

mg/L= milligrams per liter

N/A = Not Applicable

LTL – Lower Tolerance Limit

UTL – Upper Tolerance Limit

4.2 April 2021 Semi-annual Detection Monitoring Event

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

The results of the statistical analysis for the April 2021 semi-annual detection monitoring event for the Landfill are summarized in the following table. Two potential SSIs were identified for downgradient monitoring wells MW-1 and MW-21 and five potential SSIs were identified for

upgradient monitoring wells MW-27R and MW-28. 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 4-2
SSIs – April 2021, Detection Monitoring, Landfill**

| ANALYTE | WELL | LTL | UTL | SAMPLE DATE | VALUE | UNIT |
|----------|--------|-----|-------|-------------|-------|------|
| Calcium | MW-27R | N/A | 424 | 4/5/2021 | 431 | mg/L |
| Calcium | MW-28 | N/A | 424 | 4/5/2021 | 583 | mg/L |
| Chloride | MW-27R | N/A | 1,607 | 4/5/2021 | 1,890 | mg/L |
| Chloride | MW-28 | N/A | 1,607 | 4/5/2021 | 2,470 | mg/L |
| Field pH | MW-28 | 5.1 | 7.3 | 4/5/2021 | 5.01 | SU |
| Field pH | MW-1 | 5.1 | 7.3 | 4/5/2021 | 3.7 | SU |
| Boron | MW-21 | N/A | 0.282 | 4/5/2021 | 0.594 | mg/L |

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

SU = 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 (October 2021) semi-annual detection monitoring event were completed in December 2021. Select analytes were resampled in November 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 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.

The results of the statistical analysis for the October 2021 semi-annual detection monitoring event for the Landfill are summarized in the following table. One potential SSI was identified for downgradient monitoring well MW-21.

Table 4-3
SSIs – October 2021, Detection Monitoring, Landfill

| ANALYTE | WELL | LTL | UTL | SAMPLE DATE | VALUE | UNIT |
|---------|-------|-----|------|-------------|-------|------|
| Boron | MW-21 | N/A | 0.44 | 11/11/2021 | 0.691 | 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 Landfill 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 Landfill for the second half (October) 2021 semi-annual detection monitoring event were identified. Per the TCEQ CCR Permit Program, an ASD will be prepared during and submitted to the TCEQ for review during the first quarter 2022. In addition, the ASD 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 May 2021, ASDs were certified for potential SSIs identified for the Landfill CCR unit for the second half (October 2020) semi-annual detection monitoring sampling event; and
- In November 2021, ASDs were certified for potential SSIs identified for the Landfill CCR unit for the first half (April 2021) semi-annual detection monitoring sampling event.

Pursuant to §257.94(e)(2) of the Federal CCR Rule, ASDs successfully demonstrated alternative sources or issues with laboratory data analytical quality for the Landfill CCR unit. Therefore, the Landfill remained in detection monitoring during 2021. The ASDs for the Landfill CCR unit for both semi-annual detection monitoring events are discussed in the subsections below. The completed ASDs are provided in Appendix E.

5.1 Summary of ASDs

5.1.1 Second Half 2020 and First Half 2021

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

- October 2020. Two potential SSIs were identified. Chloride was identified for upgradient monitoring well MW-28 and boron was identified for downgradient monitoring well MW-21. Three alternative sources were identified for the potential SSIs:
 - 1) Short baseline period upon which the background UTLs were calculated;
 - 2) Presence of numerous non-CCR sources in the vicinity of the Landfill, including historical and current natural gas wells and their associated well pads and surface pits that are located immediately surrounding the Landfill; and
 - 3) Laboratory data quality issues identified for the historical laboratory analyses.
- April 2021. Seven potential SSIs were identified. Calcium and chloride were identified at upgradient monitoring wells MW-27R and MW-28. pH was identified at upgradient monitoring well MW-28 and identified at downgradient monitoring well MW-1. Boron was identified at downgradient monitoring well MW-21. Three alternative sources were identified for the potential SSIs:
 - 1) Short baseline period upon which the background UTLs were calculated;
 - 2) Presence of numerous non-CCR sources in the vicinity of the Landfill, including historical and current natural gas wells and their associated well pads and surface pits that are located immediately surrounding the Landfill; and
 - 3) Laboratory data quality issues identified for the historical laboratory analyses.

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 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(2) of the Federal CCR Rule, written ASDs were completed and certified by a qualified Texas P.E. during 2021 for the Landfill CCR unit. 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, the Landfill CCR unit remained in the detection monitoring program at the start and end of 2021.

5.3 Transition Between Monitoring Programs

During 2021, the groundwater monitoring system for the Landfill CCR unit 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 registration for the Landfill (Unit 004) per the TCEQ CCR Permit Program was 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 within 30 days of placement in the FOR, and posted to the Station's publicly accessible CCR website by March 1, 2022;
- An ASD 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 events 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 Landfill (Unit 004) remain in detection monitoring subject to the following key activities and that the following project timeline be implemented during 2022:

- The CCR unit registration for the Landfill (Unit 004) per the TCEQ CCR Permit Program was submitted to TCEQ during January 2022;
- The *2021 Annual Report* will be prepared and placed into the FOR by January 31, 2022 and posted to the Station's publicly accessible CCR website by March 1, 2022;
- An ASD 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 events 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.

ERM, Sampling and Analysis Plan, October 2017, Limestone Electric Generating Station, Jewett, Texas.

ERM, CCR Statistical Analysis Plan, October 2017, Limestone Electric Generating Station, Jewett, Texas.

ERM, Annual Groundwater Monitoring and Corrective Action Report, January 31, 2018, Limestone Electric Generating Station, Secondary E Pond Unit (Unit 003), Jewett, Texas.

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

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

TRC, Alternative Source Demonstration, May 2021, Limestone Electric Generating Station, Landfill (Unit 004), Jewett, Texas.

TRC, Alternative Source Demonstration, November 2021, Limestone Electric Generating Station, Landfill (Unit 004), Jewett, Texas.

TRC, Statistical Methods Certification, August 2018, Limestone Electric Generating Station, Jewett, Texas.

Figures



LEGEND
 APPROXIMATE PROPERTY BOUNDARY

REFERENCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
 DONIE, TEXAS (2016)
 FARRAR, TEXAS (2016)

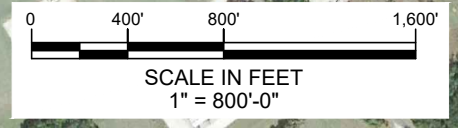
TEXAS
 QUADRANGLE LOCATION

SCALE IN FEET
 1" = 3,000'-0"

| | | | |
|------------------------------------|--|---|------------------|
| PROJECT: | | NRG TEXAS POWER, LLC Limestone Electric Generating Station Jewett, Texas | |
| TITLE: SITE LOCATION MAP | | | |
| DRAWN BY: | O. Fonseca | PROJECT No.: | 298367.0000.0000 |
| 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-LimestoneStation - Site Location Map.dwg | | |



H:\Users\SRay\Downloads\ Fig 2 - NRG-LimestoneStation - Landfill_Adjusted.dwg 01/07/21



UNIT 004 CCR LANDFILL

LEGEND
 - - - - - APPROXIMATE PROPERTY BOUNDARY

| | | |
|--------------|---|-------------------------------|
| PROJECT: | NRG TEXAS POWER, LLC Limestone Electric Generating Station Jewett, Texas | |
| TITLE: | LOCATION OF CCR LANDFILL | |
| DRAWN BY: | O. Fonseca | PROJECT No.: 298367.2002.0000 |
| CHECKED BY: | R. Varnell | FIGURE 1-2 |
| APPROVED BY: | R. Varnell | |
| DATE: | January 2021 | |

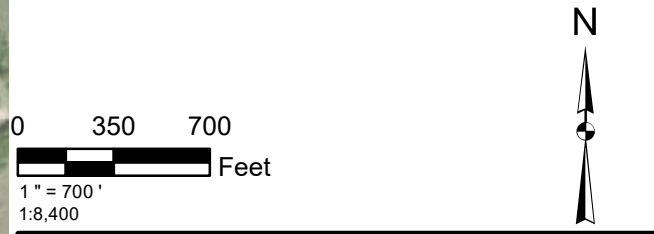
TRC
 10550 Richmond Ave.
 Suite 210
 Houston, TX 77042
 Phone: 713.244.1000

IMAGERY SOURCE: Google Earth (10/30/2014)

FILE: Fig 2 - NRG-LimestoneStation - Landfill_Adjusted.dwg



- LEGEND**
- MONITORING WELL LOCATION
 - LANDFILL BACKGROUND CCR MONITORING WELL LOCATION
 - LANDFILL CCR MONITORING WELL LOCATION
 - CCR UNIT BOUNDARY

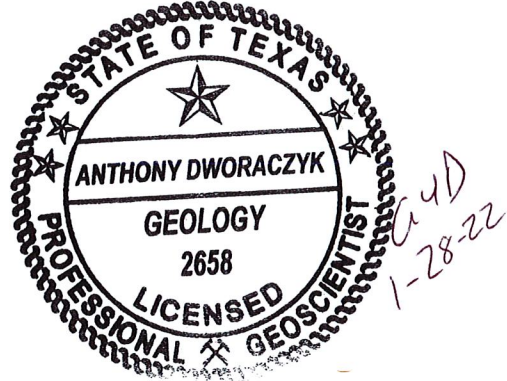


| | | |
|-----------------|-------------------|--|
| PROJECT: | | NRG TEXAS POWER, LLC LIMESTONE JEWETT, TEXAS |
| TITLE: | | CCR GROUNDWATER MONITORING NETWORKS MAP |
| DRAWN BY: | F. YARBROUGH | PROJ. NO.: 423027.0000.0000 |
| CHECKED BY: | FIGURE 2-1 | |
| APPROVED BY: | | |
| DATE: | JANUARY 2022 | |
| | | 14701 St. Mary's Lane, Suite 500 Houston, TX, 77079 Phone 281.616.0100 www.trcsolutions.com |
| FILE NO.: | 423027_2-1.mxd | |

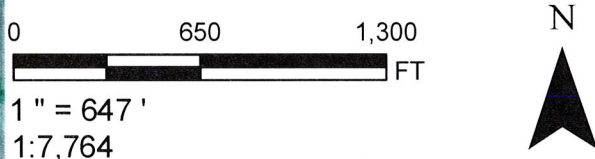


LEGEND

- MONITORING WELL LOCATION
- LANDFILL BACKGROUND CCR MONITORING WELL LOCATION
- LANDFILL CCR MONITORING WELL LOCATION
- 446.34 GROUNDWATER ELEVATION (FT MSL)
- NM NOT MEASURED
- ← GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)



NOTE:
GROUNDWATER ELEVATIONS MEASURED
BY HMI ON JANUARY 25, 2021



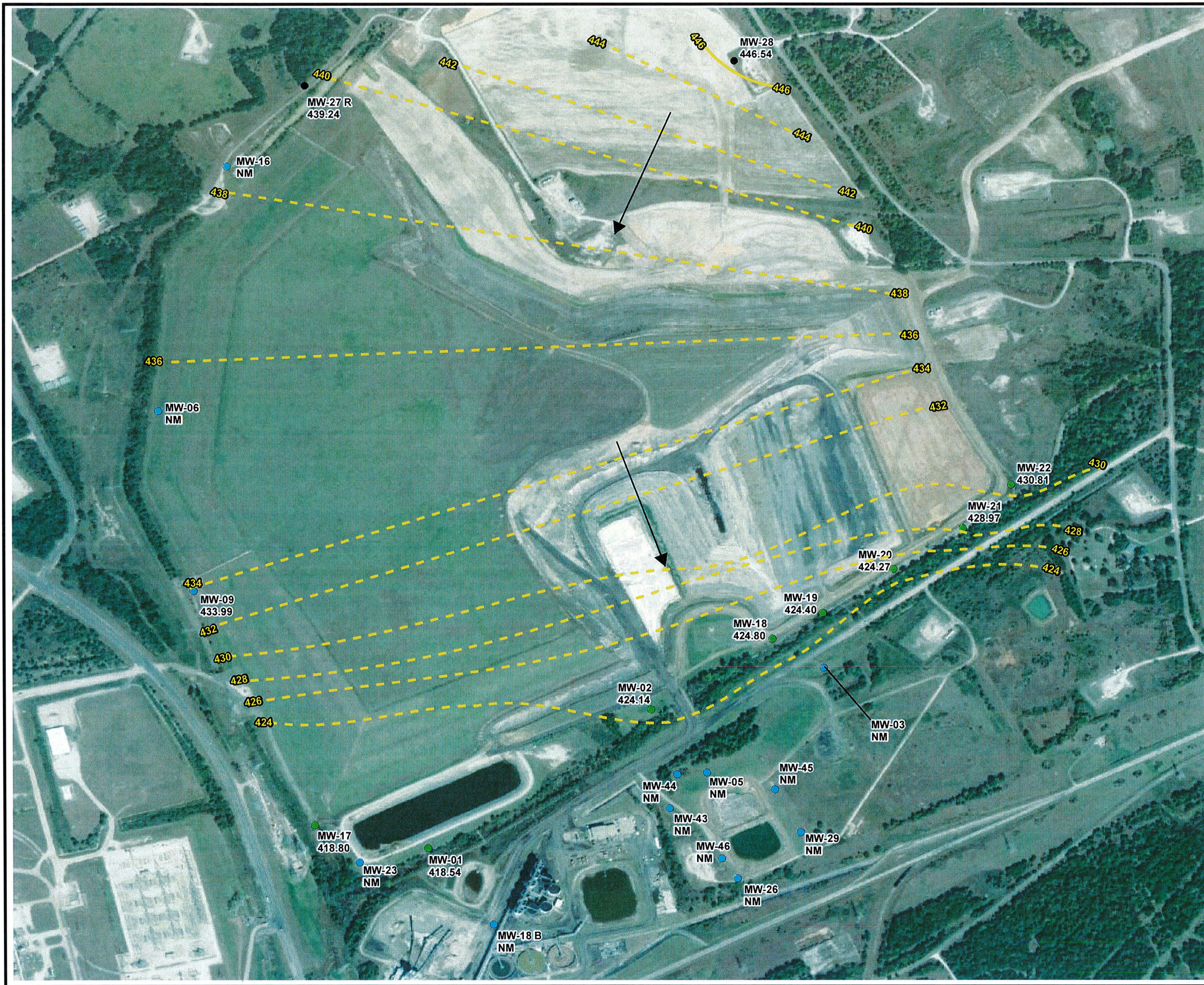
PROJECT: **NRG TEXAS POWER, LLC
LIMESTONE
JEWETT, TEXAS**

TITLE: **GROUNDWATER POTENTIOMETRIC
SURFACE - JANUARY 2021**

| | |
|------------------------|-----------------------------|
| DRAWN BY: F. YARBROUGH | PROJ. NO.: 423027.0000.0000 |
| CHECKED BY: | FIGURE 2-2 |
| APPROVED BY: | |
| DATE: JANUARY 2022 | |

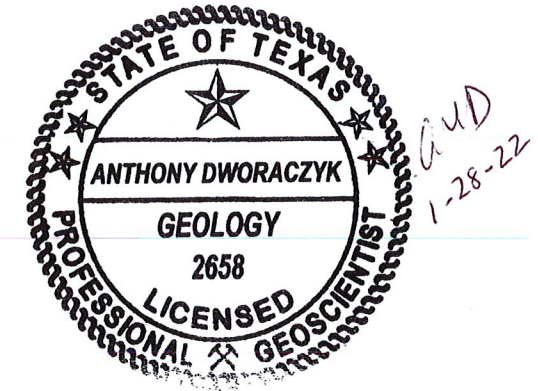
TRC 14701 St. Mary's Lane, Suite 500
Houston, TX, 77079
Phone 281.616.0100
www.trcsolutions.com

FILE NO.: 423027_2-2_January.mxd

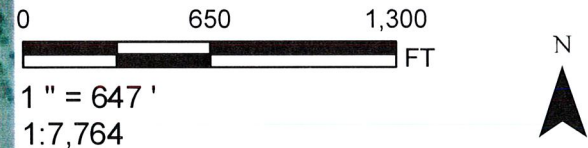


LEGEND

- MONITORING WELL LOCATIONS
- LANDFILL BACKGROUND CCR MONITORING WELL LOCATION
- LANDFILL CCR MONITORING WELL LOCATION
- 446.34 GROUNDWATER ELEVATION (FT MSL)
- NM NOT MEASURED
- ← GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)



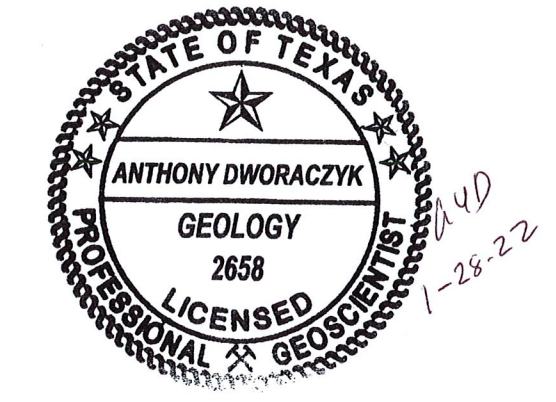
NOTE:
GROUNDWATER ELEVATIONS MEASURED
BY HMI ON APRIL 5, 2021



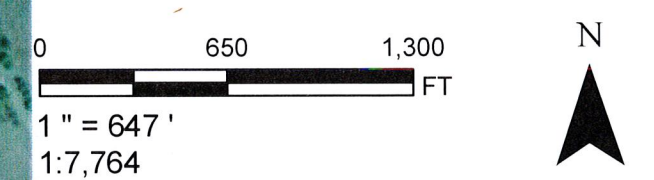
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|--------------|--------------|--|------------------|
| PROJECT: | | NRG TEXAS POWER, LLC LIMESTONE JEWETT, TEXAS | |
| TITLE: | | GROUNDWATER POTENTIOMETRIC SURFACE - APRIL 2021 | |
| DRAWN BY: | F. YARBROUGH | PROJ. NO.: | 423027.0000.0000 |
| CHECKED BY: | | FIGURE 2-3 | |
| APPROVED BY: | | | |
| DATE: | JANUARY 2022 | | |
| | | 14701 St. Mary's Lane, Suite 500 Houston, TX, 77079 Phone 281.616.0100 www.trcsolutions.com | |
| FILE NO.: | | 423027_2-3_April.mxd | |



- LEGEND**
- MONITORING WELL LOCATION
 - LANDFILL BACKGROUND CCR MONITORING WELL LOCATION
 - LANDFILL CCR MONITORING WELL LOCATION
 - 446.51 GROUNDWATER ELEVATION (FT MSL)
 - NM NOT MEASURED
 - ← GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)



NOTE:
GROUNDWATER ELEVATIONS MEASURED
BY HMI ON OCTOBER 13, 2021



| | |
|--|-----------------------------|
| PROJECT: NRG TEXAS POWER, LLC LIMESTONE JEWETT, TEXAS | |
| TITLE: GROUNDWATER POTENTIOMETRIC SURFACE - OCTOBER 2021 | |
| DRAWN BY: F. YARBROUGH | PROJ. NO.: 423027.0000.0000 |
| CHECKED BY: | FIGURE 2-4 |
| APPROVED BY: | |
| DATE: JANUARY 2022 | |
| 14701 St. Mary's Lane, Suite 500 Houston, TX, 77079 Phone 281.616.0100 www.trcsolutions.com | |
| FILE NO.: | 423027_2-4_October.mxd |

Tables

Table 2-1
Summary of Groundwater Elevation Data
January - December 2021
Limestone Electric Generating Station - Jewett, Texas

| Well Description | Monitor Well ID | Measurement Date | Top of Casing (ft. MSL) | Depth to Water (ft.) | Ground Water Elevation (ft. MSL) |
|------------------|-----------------|------------------|-------------------------|----------------------|----------------------------------|
| Landfill | | | | | |
| Downgradient | MW-01 | 1/25/2021 | 420.84 | 2.26 | 418.58 |
| | MW-01 | 4/5/2021 | 420.84 | 2.30 | 418.54 |
| | MW-01 | 10/13/2021 | 420.84 | 1.90 | 418.94 |
| | MW-02 | 1/25/2021 | 430.01 | 5.38 | 424.63 |
| | MW-02 | 4/5/2021 | 430.01 | 5.87 | 424.14 |
| | MW-02 | 10/13/2021 | 430.01 | 5.05 | 424.96 |
| | MW-17 | 1/25/2021 | 421.22 | 2.16 | 419.06 |
| | MW-17 | 4/5/2021 | 421.22 | 2.42 | 418.80 |
| | MW-17 | 10/13/2021 | 421.22 | 2.51 | 418.71 |
| | MW-18 | 1/25/2021 | 436.30 | 11.25 | 425.05 |
| | MW-18 | 4/5/2021 | 436.30 | 11.50 | 424.80 |
| | MW-18 | 10/13/2021 | 436.30 | 10.62 | 425.68 |
| | MW-19 | 1/25/2021 | 443.79 | 19.35 | 424.44 |
| | MW-19 | 4/5/2021 | 443.79 | 19.39 | 424.40 |
| | MW-19 | 10/13/2021 | 443.79 | 18.29 | 425.50 |
| | MW-20 | 1/25/2021 | 445.11 | 20.90 | 424.21 |
| | MW-20 | 4/5/2021 | 445.11 | 20.84 | 424.27 |
| | MW-20 | 10/13/2021 | 445.11 | 19.30 | 425.81 |
| | MW-21 | 1/25/2021 | 446.35 | 18.15 | 428.20 |
| | MW-21 | 4/5/2021 | 446.35 | 17.38 | 428.97 |
| | MW-21 | 10/13/2021 | 446.35 | 17.75 | 428.60 |
| MW-22 | 1/25/2021 | 447.59 | 17.86 | 429.73 | |
| MW-22 | 4/5/2021 | 447.59 | 16.78 | 430.81 | |
| MW-22 | 10/13/2021 | 447.59 | 16.64 | 430.95 | |
| Gauge Only | MW-09 | 1/25/2021 | 452.03 | 18.30 | 433.73 |
| | MW-09 | 4/5/2021 | 452.03 | 18.04 | 433.99 |
| | MW-09 | 10/13/2021 | 452.03 | 18.61 | 433.42 |
| Upgradient | MW-27R | 1/25/2021 | 457.89 | 18.82 | 439.07 |
| | MW-27R | 4/5/2021 | 457.89 | 18.65 | 439.24 |
| | MW-27R | 10/13/2021 | 457.89 | 17.95 | 439.94 |
| | MW-28 | 1/25/2021 | 477.52 | 30.73 | 446.79 |
| | MW-28 | 4/5/2021 | 477.52 | 30.98 | 446.54 |
| | MW-28 | 10/13/2021 | 477.52 | 30.68 | 446.84 |

Table 2-2
Summary of Groundwater Monitoring Data - Appendix III
January - December 2021
Limestone Electric Generating Station - Jewett, 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 | | | | | | | |
| Landfill | | | | | | | | | | |
| Upgradient | MW-27R | 01/25/2021 | N | 0.210 | 499 | 1800 | < 0.10 U | 548 | 3590 | 6.47 |
| | MW-27R | 03/15/2021 | N | 0.150 | 307 | 1830 | < 0.10 U | 559 | 4400 | 6.49 |
| | MW-27R | 04/05/2021 | N | 0.178 | 431 | 1890 | < 0.10 U | 605 | 4820 | 6.49 |
| | MW-27R | 10/13/2021 | N | 0.170 | 380 | 1760 | < 0.10 U | 619 | 3620 | 6.51 |
| | MW-28 | 01/25/2021 | N | 0.231 | 599 | 2420 | 0.17 | 623 | 5080 | 5.08 |
| | MW-28 | 04/05/2021 | N | 0.217 | 583 | 2470 | 0.19 | 654 | 6380 | 5.01 |
| | MW-28 | 10/13/2021 | N | 0.187 | 527 | 2500 | 0.14 | 567 | 4820 | 4.99 |
| Downgradient | MW-01 | 01/25/2021 | N | 0.0337 [J] | 60.9 | 267 | 0.070 J | 0.381 J[U] | 568 | 3.65 |
| | MW-01 | 04/05/2021 | N | 0.0331 | 49.7 | 290 | 0.070 J | < 0.200 | 912 | 3.72 |
| | MW-01 | 10/13/2021 | N | 0.0377 | 52.3 | 283 | 0.13 | 0.995 | 854 | 3.85 |
| | MW-02 | 01/25/2021 | N | 0.0289 [J] | 217 | 302 | < 0.10 U | 674 | 1200 | 5.50 |
| | MW-02 | 04/05/2021 | N | 0.0401 | 164 | 340 | < 0.10 U | 660 | 1610 | 5.68 |
| | MW-02 | 10/13/2021 | N | 0.0444 | 109 | 408 | < 0.10 U | 162 | 1240 | 5.63 |
| | MW-17 | 01/25/2021 | N | 0.0440 [J] | 3.06 | 9.40 | 0.15 | 7.68 | 116 | 6.13 |
| | MW-17 | 04/05/2021 | N | 0.0258 | 3.12 | 9.81 | 0.16 | 8.33 | 140 | 6.19 |
| | MW-17 | 10/13/2021 | N | 0.0297 | 2.84 | 9.27 | 0.18 | 7.25 | 116 | 6.11 |
| | MW-18 | 10/13/2021 | N | 0.0390 | 59.7 | 5.46 | 0.17 | 29.7 | 342 | 6.20 |
| | MW-19 | 01/25/2021 | N | 0.0421 [J] | 40.4 | 44.9 | 0.060 J | 89.3 | 184 | 5.44 |
| | MW-19 | 01/25/2021 | FD | 0.0496 [J] | 39.6 | 45.2 | 0.090 J | 89.4 | 214 | n/a |
| | MW-19 | 04/05/2021 | FD | 0.0488 | 33.8 | 36.9 | 0.060 J | 78.3 | 320 | n/a |
| | MW-19 | 04/05/2021 | N | 0.0434 | 33.8 | 47.4 | 0.060 J | 91.5 | 350 | 5.55 |
| | MW-19 | 10/13/2021 | FD | 0.0430 | 36.2 | 40.1 | 0.64 [J] | 92.4 | 352 | n/a |
| | MW-19 | 10/13/2021 | N | 0.0387 | 33.2 | 39.6 | 0.080 J[J] | 91.2 | 324 | 5.52 |
| | MW-20 | 01/25/2021 | N | 0.0463 [J] | 42.5 | 17.4 | 0.21 | 75.8 | 138 | 6.19 |
| | MW-20 | 04/05/2021 | N | 0.0457 | 36.3 | 18.9 | 0.22 | 80.7 | 416 | 6.36 |
| | MW-20 | 10/13/2021 | N | 0.0418 | 30.8 | 19.2 | 0.26 | 36.6 | 336 | 6.32 |
| | MW-21 | 01/25/2021 | N | 0.594 | 98.8 | 44.8 | < 0.10 U | 377 | 588 | 5.26 |
| | MW-21 | 04/05/2021 | N | 0.594 | 84.8 | 42.8 | < 0.10 U | 425 | 770 | 5.26 |
| | MW-21 | 10/13/2021 | N | NU | NU | NU | NU | NU | NU | 5.26 |
| | MW-21 | 11/11/2021 | N | 0.691 | 70.2 | 28.5 | < 0.10 U | 354 | 602 | 5.01 |
| MW-22 | 01/25/2021 | N | 0.0383 [J] | 60.5 | 39.8 | 0.060 J | 93.6 | 198 | 5.72 | |
| MW-22 | 04/05/2021 | N | 0.0491 | 53.6 | 43.0 | 0.060 J | 99.6 | 372 | 5.56 | |
| MW-22 | 10/13/2021 | N | 0.0450 | 53.4 | 38.4 | 0.080 J | 107 | 336 | 5.42 | |

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 November 2021 resampling result.

Table 2-3
Summary of Groundwater Monitoring Data - Appendix IV
January - December 2021
Limestone Electric Generating Station - Jewett, Texas

| Analyte Group | | | | NRG App IV | | | | | | | | | | | | | | | | |
|------------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|---------------|-----------------|-------------|-------------|------------|------------|----------------|
| Analyte Unit | | | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Lead | Lithium | Molybdenum | Selenium | Thallium | Mercury | Fluoride | Radium-226 | Radium-228 | Radium-226/228 |
| Well Description | Well ID | Sample Date | Duplicate | 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 |
| Landfill | | | | | | | | | | | | | | | | | | | | |
| Upgradient | MW-27R | 01/25/2021 | N | < 0.000400 | 0.00346 | 0.0741 | < 0.000200 | < 0.000200 | < 0.000400 | < 0.000200 | < 0.000600 | 0.174 | 0.00196 J[U] | < 0.00110 | < 0.000200 | < 0.0000300 | < 0.10 U | 0.32 | 2.46 | 2.78 |
| | MW-27R | 03/15/2021 | N | < 0.000400 | 0.00333 | 0.0560 | < 0.000200 | < 0.000200 | < 0.000400 | < 0.000200 | < 0.000600 | 0.152 | 0.00208 J | < 0.00110 | < 0.000200 | < 0.0000300 | < 0.10 U | < 0.38 U | 2.9 | 2.9 |
| | MW-27R | 04/05/2021 | N | < 0.000400 | 0.00336 | 0.0573 | < 0.000200 | < 0.000200 | 0.00111 J | < 0.000200 | < 0.000600 | 0.160 | 0.00228 J | < 0.00110 | < 0.000200 | < 0.0000300 | < 0.10 U | 0.93 Y1 | 1.94 | 2.87 |
| | MW-28 | 01/25/2021 | N | < 0.000400 | 0.00398 | 0.0712 | 0.000518 J | 0.00552 | 0.0121 | 0.266 | 0.00108 J | 0.953 | 0.00101 J[U] | 0.00409 | 0.000398 J[U] | < 0.0000300 | 0.17 | 0.73 | 6.7 | 7.43 |
| MW-28 | 04/05/2021 | N | < 0.000400 | 0.00280 | 0.0817 | 0.000431 J | 0.00551 | 0.0138 | 0.262 | 0.00128 J | 0.957 | 0.00157 J | 0.00282 | 0.000457 J[U] | < 0.0000300 | 0.19 | 0.9 | 5.4 | 6.3 | |
| Downgradient | MW-01 | 01/25/2021 | N | < 0.000400 | < 0.000400 | 0.822 | 0.000203 J | < 0.000200 | 0.00267 J | < 0.000200 | < 0.000600 | 0.0453 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.070 J | 1.31 | 2.19 | 3.5 |
| | MW-01 | 04/05/2021 | N | < 0.000400 | < 0.000400 | 0.765 | 0.000212 J | < 0.000200 | 0.00337 J | < 0.000200 | < 0.000600 | 0.0464 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.070 J | 1.58 | 1.83 Y1 | 3.41 |
| | MW-02 | 01/25/2021 | N | < 0.000400 | < 0.000400 | 0.0861 | < 0.000200 | < 0.000200 | < 0.000400 | 0.00170 J | < 0.000600 | 0.0724 | 0.00114 J[U] | 0.00481 | < 0.000200 [JL] | 0.0000550 J | < 0.10 U | < 0.77 U | 1.37 Y1 | 1.37 |
| | MW-02 | 04/05/2021 | N | < 0.000400 | < 0.000400 | 0.0929 | < 0.000200 | < 0.000200 | 0.00101 J | 0.00164 J | < 0.000600 | 0.0730 | < 0.000600 | 0.00275 | < 0.000200 | < 0.0000300 | < 0.10 U | 0.3 | 1.38 | 1.68 |
| | MW-17 | 01/25/2021 | N | < 0.000400 | 0.000790 J | 0.0182 | < 0.000200 | < 0.000200 | < 0.000400 | 0.000326 J | < 0.000600 | 0.0121 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.15 | 0.34 | < 0.86 U | < 0.86 U |
| | MW-17 | 04/05/2021 | N | < 0.000400 | 0.000632 J | 0.0149 | < 0.000200 | < 0.000200 | < 0.000400 | 0.000284 J | < 0.000600 | 0.0115 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.16 | 0.67 | < 0.74 U | < 0.74 U |
| | MW-19 | 01/25/2021 | N | < 0.000400 | 0.000915 J | 0.105 | < 0.000200 | < 0.000200 | < 0.000400 | 0.000484 J | < 0.000600 | 0.0122 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.060 J | < 0.47 U | 0.94 | 0.94 |
| | MW-19 | 01/25/2021 | FD | < 0.000400 | 0.000935 J | 0.101 | < 0.000200 | < 0.000200 | < 0.000400 | 0.000512 J | < 0.000600 | 0.0126 | < 0.000600 | < 0.00110 | 0.00120 J | < 0.0000300 | 0.090 J | < 0.35 U | 1.17 | 1.17 |
| | MW-19 | 04/05/2021 | FD | < 0.000400 | 0.000822 J | 0.104 | < 0.000200 | 0.000274 J | < 0.000400 | < 0.000200 | < 0.000600 | 0.0128 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.060 J | 0.77 [J] | 1.07 | 1.84 |
| | MW-19 | 04/05/2021 | N | < 0.000400 | 0.000874 J | 0.108 | < 0.000200 | 0.000266 J | < 0.000400 | < 0.000200 | < 0.000600 | 0.0123 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.060 J | 0.29 [J] | 0.9 | 1.19 |
| | MW-20 | 01/25/2021 | N | < 0.000400 | 0.000790 J | 0.0936 | < 0.000200 | < 0.000200 | 0.000709 J | < 0.000200 | < 0.000600 | 0.0117 | < 0.000600 | 0.00408 | < 0.000200 | < 0.0000300 | 0.21 | 0.36 | < 0.83 U | < 0.83 |
| | MW-20 | 04/05/2021 | N | < 0.000400 | 0.000773 J | 0.0903 | < 0.000200 | < 0.000200 | 0.00106 J | < 0.000200 | < 0.000600 | 0.0108 | < 0.000600 | 0.00333 | < 0.000200 | < 0.0000300 | 0.22 | < 0.33 U | < 0.79 U | < 0.79 U |
| | MW-21 | 01/25/2021 | N | < 0.000400 | 0.000630 J | 0.0768 | < 0.000200 | 0.000741 J | 0.000671 J | 0.000531 J | < 0.000600 | 0.0250 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | < 0.10 U | < 0.34 U | < 0.77 U | < 0.77 |
| | MW-21 | 04/05/2021 | N | < 0.000400 | 0.000561 J | 0.0659 | < 0.000200 | 0.000757 J | < 0.000400 | 0.000583 J | < 0.000600 | 0.0236 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | < 0.10 U | 0.29 | 0.96 | 1.25 |
| MW-22 | 01/25/2021 | N | < 0.000400 | < 0.000400 | 0.114 | < 0.000200 | 0.000331 J | 0.00153 J | 0.000204 J | < 0.000600 | 0.0148 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.060 J | < 0.46 U | < 0.90 U | < 0.90 | |
| MW-22 | 04/05/2021 | N | < 0.000400 | < 0.000400 | 0.116 | < 0.000200 | 0.000315 J | < 0.000400 | < 0.000200 | < 0.000600 | 0.0146 | < 0.000600 | < 0.00110 | < 0.000200 | < 0.0000300 | 0.060 J | < 0.22 Y1,U | < 0.74 U | < 0.74 U | |

Notes
N Normal sample
FD Field Duplicate
J Concentration is an estimated value. Result is less than the method quantitation limit but ≥ to the method detection limit.
U Analyte was not detected at or above the method detection limit.
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
T: +1 281 530 5656
F: +1 281 530 5887

February 28, 2021

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

Work Order: **HS21010988**

Laboratory Results for: **NRG Limestone - Appendix III**

Dear Lori Burris,

ALS Environmental received 11 sample(s) on Jan 26, 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 Limestone - Appendix III
WorkOrder: HS21010988

**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 Limestone - Appendix III
WorkOrder: HS21010988

**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: 02/28/2021 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21010988 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 162160,R377312,R377341,R377355,R377405 | | | | | |
| # 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: 02/28/2021 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21010988 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 162160,R377312,R377341,R377355,R377405 | | | | | |
| # 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: 02/28/2021 |
|--|--|---|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21010988 |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 162160,R377312,R377341,R377355,R377405 |
| ER# ⁵ | Description | |
| 1 | <p>Batch 162160, Metals Method SW6020, sample MW-02, 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 R377312, Anions Method E300, sample MW-22, MS recovered outside the control limit for 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 attached. | |
| 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
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988
Start Date: 01-Feb-2021 **End Date:** 02-Feb-2021

Run ID: ICS-Integrion_377312
Instrument: ICS-Integrion
Method: E300

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| CCB 1 | 1 | 01-Feb-2021 15:04 | | CL SO4 |
| ZZZZZMS | 1 | 01-Feb-2021 16:43 | | CL SO4 |
| ZZZZZMSD | 1 | 01-Feb-2021 17:01 | | CL SO4 |
| MW-01 | 1 | 01-Feb-2021 18:06 | | SO4 |
| MW-01 | 10 | 01-Feb-2021 18:24 | | CL |
| MW-17 | 1 | 01-Feb-2021 19:36 | | CL SO4 |
| CCV 1 | 1 | 01-Feb-2021 19:54 | | CL SO4 |
| CCB 2 | 1 | 01-Feb-2021 20:30 | | CL SO4 |
| MW-19 | 1 | 01-Feb-2021 21:07 | | CL SO4 |
| MW-20 | 1 | 01-Feb-2021 21:25 | | CL SO4 |
| MW-21 | 1 | 01-Feb-2021 21:43 | | CL |
| MW-21 | 10 | 01-Feb-2021 22:01 | | SO4 |
| MW-22 | 1 | 01-Feb-2021 22:19 | | CL SO4 |
| MW-22MS | 1 | 01-Feb-2021 22:37 | | CL SO4 |
| MW-22MSD | 1 | 01-Feb-2021 22:55 | | CL SO4 |
| MW-27R | 100 | 01-Feb-2021 23:13 | | CL SO4 |
| MW-28 | 10 | 01-Feb-2021 23:31 | | SO4 |
| MW-28 | 100 | 01-Feb-2021 23:49 | | CL |
| CCB 3 | 1 | 02-Feb-2021 00:44 | | CL SO4 |
| DUP-01 | 1 | 02-Feb-2021 01:20 | | CL SO4 |
| FB-01 | 1 | 02-Feb-2021 01:38 | | CL SO4 |
| CCV 2 | 1 | 02-Feb-2021 03:27 | | CL SO4 |
| CCB 4 | 1 | 02-Feb-2021 04:03 | | CL SO4 |
| MBLK-020121 | 1 | 02-Feb-2021 04:39 | | CL SO4 |
| LCS-020121 | 1 | 02-Feb-2021 04:57 | | CL SO4 |
| CCB 5 | 1 | 02-Feb-2021 06:28 | | CL SO4 |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

Run ID:ICS-Integrion_377405
Instrument:ICS-Integrion
Method:E300

Start Date: 02-Feb-2021 End Date: 03-Feb-2021

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| CCB 1 | 1 | 02-Feb-2021 13:36 | | CL SO4 |
| MW-02 | 20 | 02-Feb-2021 13:55 | | CL SO4 |
| MW-02MS | 20 | 02-Feb-2021 14:49 | | CL SO4 |
| MW-02MSD | 20 | 02-Feb-2021 15:07 | | CL SO4 |
| CCV 1 | 1 | 02-Feb-2021 15:25 | | CL SO4 |
| CCB 2 | 1 | 02-Feb-2021 15:43 | | CL SO4 |
| CCB 3 | 1 | 02-Feb-2021 20:15 | | CL SO4 |
| CCB 4 | 1 | 03-Feb-2021 04:24 | | CL SO4 |
| MBLK-020221 | 1 | 03-Feb-2021 06:49 | | CL SO4 |
| LCS-020221 | 1 | 03-Feb-2021 07:07 | | CL SO4 |
| CCV 2 | 1 | 03-Feb-2021 07:43 | | CL SO4 |
| CCB 5 | 1 | 03-Feb-2021 08:37 | | CL SO4 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

Run ID: ICS-Integriion_377312
Instrument: ICS-Integriion
Method: E300

| CCB | Date | Seq | D/F | Units |
|-------|-------------------|---------------|------------|---------------------|
| CCB 1 | 01-Feb-2021 15:04 | 5939689 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 249 | 200 | 500 |
| | Sulfate | 205.4 | 200 | 500 |
| CCB 2 | 01-Feb-2021 20:30 | 5939698 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 211 | 200 | 500 |
| | Sulfate | 208 | 200 | 500 |
| CCB 3 | 02-Feb-2021 00:44 | 5939710 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 213 | 200 | 500 |
| CCB 4 | 02-Feb-2021 04:03 | 5939719 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 203 | 200 | 500 |
| CCB 5 | 02-Feb-2021 06:28 | 5939723 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 212 | 200 | 500 |
| | Sulfate | 205.4 | 200 | 500 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

Run ID: ICS-Integriion_377405
Instrument: ICS-Integriion
Method: E300

| CCB | Date | Seq | D/F | Units |
|-------|-------------------|---------------|------------|---------------------|
| CCB 1 | 02-Feb-2021 13:36 | 5941843 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 257 | 200 | 500 |
| | Sulfate | 207.6 | 200 | 500 |
| CCB 2 | 02-Feb-2021 15:43 | 5941848 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 217 | 200 | 500 |
| | Sulfate | 209 | 200 | 500 |
| CCB 3 | 02-Feb-2021 20:15 | 5941855 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 257 | 200 | 500 |
| | Sulfate | 209.6 | 200 | 500 |
| CCB 4 | 03-Feb-2021 04:24 | 5941857 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 253 | 200 | 500 |
| | Sulfate | 205.8 | 200 | 500 |
| CCB 5 | 03-Feb-2021 08:37 | 5941864 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Chloride | 216 | 200 | 500 |
| | Sulfate | 208.9 | 200 | 500 |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988
Start Date: 03-Feb-2021 **End Date:** 04-Feb-2021

Run ID: ICPMS05_377445
Instrument: ICPMS05
Method: SW6020

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|----------|
| LLICV5 | 1 | 03-Feb-2021 11:39 | 020LCV5.d | B CA |
| ICB | 1 | 03-Feb-2021 11:41 | 021_ICB.d | B CA |
| LLICV2 | 1 | 03-Feb-2021 11:44 | 022LCV2.d | B CA |
| ICV | 1 | 03-Feb-2021 11:51 | 024_ICV.d | B CA |
| ICSA | 1 | 03-Feb-2021 12:01 | 026ICSA.d | B CA |
| ICSAB | 1 | 03-Feb-2021 12:03 | 027ICSB.d | B CA |
| CCV 1 | 1 | 03-Feb-2021 12:18 | 029_CCV.d | B CA |
| CCB 1 | 1 | 03-Feb-2021 12:31 | 032_CCB.d | B CA |
| CCV 2 | 1 | 03-Feb-2021 13:10 | 047_CCV.d | B CA |
| CCB 2 | 1 | 03-Feb-2021 13:13 | 048_CCB.d | B CA |
| CCB 3 | 1 | 03-Feb-2021 13:23 | 053_CCB.d | B CA |
| CCV 3 | 1 | 03-Feb-2021 13:35 | 055_CCV.d | B CA |
| ICCV 4 | 1 | 03-Feb-2021 14:01 | 067_ICV.d | B CA |
| LLICCV5 | 1 | 03-Feb-2021 14:03 | 068LCV5.d | B CA |
| ICCB 4 | 1 | 03-Feb-2021 14:05 | 069_ICB.d | B CA |
| LLICCV2 | 1 | 03-Feb-2021 14:07 | 070LCV2.d | B CA |
| LLICCV5 | 1 | 03-Feb-2021 14:27 | 072LCV5.d | B CA |
| ICCV 5 | 1 | 03-Feb-2021 14:29 | 073_ICV.d | B CA |
| CCV 6 | 1 | 03-Feb-2021 14:49 | 079_CCV.d | B CA |
| CCB 5 | 1 | 03-Feb-2021 14:51 | 080_CCB.d | B CA |
| MBLK-162160 | 1 | 03-Feb-2021 15:11 | 088SMPL.d | B CA |
| LCS-162160 | 1 | 03-Feb-2021 15:13 | 089SMPL.d | B CA |
| CCV 7 | 1 | 03-Feb-2021 15:15 | 090_CCV.d | B CA |
| CCB 6 | 1 | 03-Feb-2021 15:17 | 091_CCB.d | B CA |
| MW-01 | 1 | 03-Feb-2021 15:28 | 092SMPL.d | B CA |
| MW-02 | 1 | 03-Feb-2021 15:30 | 093SMPL.d | B |
| MW-02SD | 5 | 03-Feb-2021 15:32 | 094SMPL.d | B |
| MW-02MSD | 1 | 03-Feb-2021 15:36 | 096SMPL.d | B CA |
| MW-02PDS | 1 | 03-Feb-2021 15:41 | 098SMPL.d | |
| CCV 8 | 1 | 03-Feb-2021 15:46 | 100_CCV.d | B CA |
| CCB 7 | 1 | 03-Feb-2021 15:48 | 101_CCB.d | B CA |
| MW-17 | 1 | 03-Feb-2021 15:52 | 103SMPL.d | B CA |
| MW-19 | 1 | 03-Feb-2021 16:00 | 105SMPL.d | B CA |
| MW-20 | 1 | 03-Feb-2021 16:02 | 106SMPL.d | B CA |
| MW-22 | 1 | 03-Feb-2021 16:04 | 107SMPL.d | B CA |
| MW-02MS | 1 | 03-Feb-2021 16:06 | 108SMPL.d | B CA |
| CCV 9 | 1 | 03-Feb-2021 16:10 | 110_CCV.d | B CA |
| CCB 8 | 1 | 03-Feb-2021 16:12 | 111_CCB.d | B CA |
| MW-21 | 1 | 03-Feb-2021 16:14 | 112SMPL.d | B CA |
| MW-27R | 1 | 03-Feb-2021 16:16 | 113SMPL.d | B |
| DUP-01 | 1 | 03-Feb-2021 16:20 | 115SMPL.d | B CA |
| FB-01 | 1 | 03-Feb-2021 16:24 | 117SMPL.d | B CA |
| MW-02PDS | 1 | 03-Feb-2021 16:33 | 121SMPL.d | |
| CCV 10 | 1 | 03-Feb-2021 16:35 | 122_CCV.d | B CA |
| CCB 9 | 1 | 03-Feb-2021 16:37 | 123_CCB.d | B CA |
| MW-02 | 10 | 03-Feb-2021 16:50 | 129SMPL.d | CA |
| MW-02SD | 50 | 03-Feb-2021 16:52 | 130SMPL.d | CA |
| MW-02PDS | 10 | 03-Feb-2021 16:54 | 131SMPL.d | CA |
| CCB 10 | 1 | 03-Feb-2021 16:57 | 133_CCB.d | B CA |
| CCV 11 | 1 | 03-Feb-2021 17:00 | 134_CCV.d | B CA |
| MW-27R | 10 | 03-Feb-2021 17:03 | 135SMPL.d | CA |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 WorkOrder: HS21010988
 Start Date: 03-Feb-2021 End Date: 04-Feb-2021

Run ID: ICPMS05_377445
 Instrument: ICPMS05
 Method: SW6020

| Sample No. | D/F | Time | FileID | Analyses |
|------------|-----|-------------------|-----------|----------|
| CCV 12 | 1 | 03-Feb-2021 17:05 | 136_CCV.d | B CA |
| CCB 11 | 1 | 03-Feb-2021 17:07 | 137_CCB.d | B CA |
| MW-28 | 10 | 03-Feb-2021 17:11 | 139SMPL.d | B CA |
| CCV 13 | 1 | 03-Feb-2021 17:21 | 142_CCV.d | B CA |
| CCB 12 | 1 | 03-Feb-2021 17:23 | 143_CCB.d | B CA |
| CCV 14 | 1 | 03-Feb-2021 17:52 | 153_CCV.d | B CA |
| CCB 13 | 1 | 03-Feb-2021 17:54 | 154_CCB.d | B CA |
| CCV 15 | 1 | 03-Feb-2021 18:15 | 165_CCV.d | B CA |
| CCB 14 | 1 | 03-Feb-2021 18:17 | 166_CCB.d | B CA |
| CCV 16 | 1 | 03-Feb-2021 20:27 | 171_CCV.d | B CA |
| CCB 15 | 1 | 03-Feb-2021 20:28 | 172_CCB.d | B CA |
| CCB 16 | 1 | 03-Feb-2021 20:44 | 180_CCB.d | B CA |
| CCV 17 | 1 | 03-Feb-2021 20:53 | 182_CCV.d | B CA |
| CCV 18 | 1 | 03-Feb-2021 21:12 | 192_CCV.d | B CA |
| CCB 17 | 1 | 03-Feb-2021 21:14 | 193_CCB.d | B CA |
| CCV 19 | 1 | 03-Feb-2021 21:32 | 202_CCV.d | B CA |
| CCB 18 | 1 | 03-Feb-2021 21:34 | 203_CCB.d | B CA |
| CCV 20 | 1 | 03-Feb-2021 21:46 | 209_CCV.d | B CA |
| CCB 19 | 1 | 03-Feb-2021 21:48 | 210_CCB.d | B CA |
| CCV 21 | 1 | 03-Feb-2021 22:10 | 221_CCV.d | B CA |
| CCB 20 | 1 | 03-Feb-2021 22:12 | 222_CCB.d | B CA |
| ICCV 22 | 1 | 03-Feb-2021 22:55 | 241_ICV.d | B CA |
| LLICCV2 | 1 | 03-Feb-2021 22:57 | 242LCV2.d | B CA |
| LLICCV5 | 1 | 03-Feb-2021 22:59 | 243LCV5.d | B CA |
| ICCB 21 | 1 | 03-Feb-2021 23:01 | 244_ICB.d | B CA |
| CCV 23 | 1 | 03-Feb-2021 23:17 | 252_CCV.d | B CA |
| CCB 22 | 1 | 03-Feb-2021 23:19 | 253_CCB.d | B CA |
| CCV 24 | 1 | 03-Feb-2021 23:41 | 264_CCV.d | B CA |
| CCB 23 | 1 | 03-Feb-2021 23:43 | 265_CCB.d | B CA |
| CCV 25 | 1 | 04-Feb-2021 00:05 | 276_CCV.d | B CA |
| CCB 24 | 1 | 04-Feb-2021 00:07 | 277_CCB.d | B CA |
| CCV 26 | 1 | 04-Feb-2021 00:11 | 279_CCV.d | B CA |
| CCB 25 | 1 | 04-Feb-2021 00:13 | 280_CCB.d | B CA |
| LLICV2 | 1 | 04-Feb-2021 00:17 | 282LCV2.d | B CA |
| LLICV5 | 1 | 04-Feb-2021 00:19 | 283LCV5.d | B CA |
| ICSA | 1 | 04-Feb-2021 00:21 | 284ICSA.d | B CA |
| ICSAB | 1 | 04-Feb-2021 00:23 | 285ICSB.d | B CA |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

Run ID:ICPMS05_377445
Instrument:ICPMS05
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 2 | 03-Feb-2021 13:13 | 5942573 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 19.96 | 11 | 20 |
| CCB 3 | 03-Feb-2021 13:23 | 5942577 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 21.35 | 11 | 20 |
| CCB 5 | 03-Feb-2021 14:51 | 5942639 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 13.3 | 11 | 20 |
| CCB 6 | 03-Feb-2021 15:17 | 5942650 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 17.56 | 11 | 20 |
| CCB 7 | 03-Feb-2021 15:48 | 5942660 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 17.58 | 11 | 20 |
| CCB 9 | 03-Feb-2021 16:37 | 5942755 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 15.38 | 11 | 20 |
| CCB 10 | 03-Feb-2021 16:57 | 5942765 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 12.49 | 11 | 20 |
| CCB 11 | 03-Feb-2021 17:07 | 5942769 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 15.02 | 11 | 20 |
| CCB 13 | 03-Feb-2021 17:54 | 5942786 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 14.56 | 11 | 20 |
| CCB 14 | 03-Feb-2021 18:17 | 5942798 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 16.05 | 11 | 20 |
| CCB 18 | 03-Feb-2021 21:34 | 5942834 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 14.32 | 11 | 20 |
| CCB 19 | 03-Feb-2021 21:48 | 5942841 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 26.11 | 11 | 20 |
| CCB 20 | 03-Feb-2021 22:12 | 5942851 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 15.83 | 11 | 20 |
| CCB 22 | 03-Feb-2021 23:19 | 5943191 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 16.48 | 11 | 20 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
Work Order: HS21010988

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21010988-01 | MW-01 | Groundwater | | 25-Jan-2021 11:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-02 | MW-02 | Groundwater | | 25-Jan-2021 09:40 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-03 | MW-17 | Groundwater | | 25-Jan-2021 11:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-04 | MW-19 | Groundwater | | 25-Jan-2021 09:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-05 | MW-20 | Groundwater | | 25-Jan-2021 11:05 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-06 | MW-21 | Groundwater | | 25-Jan-2021 10:10 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-07 | MW-22 | Groundwater | | 25-Jan-2021 09:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-08 | MW-27R | Groundwater | | 25-Jan-2021 09:55 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-09 | MW-28 | Groundwater | | 25-Jan-2021 10:40 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-10 | DUP-01 | Groundwater | | 25-Jan-2021 11:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010988-11 | FB-01 | Groundwater | | 25-Jan-2021 10:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-01
 Collection Date: 25-Jan-2021 11:25

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.0337 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 15:28 |
| Calcium | 60.9 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 15:28 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 267 | | 2.00 | 5.00 | mg/L | 10 | 01-Feb-2021 18:24 |
| Sulfate | 0.381 | J | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 18:06 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 568 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-02
 Collection Date: 25-Jan-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-02
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.0289 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 15:30 |
| Calcium | 217 | | 0.340 | 5.00 | mg/L | 10 | 03-Feb-2021 16:50 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 302 | | 4.00 | 10.0 | mg/L | 20 | 02-Feb-2021 13:55 |
| Sulfate | 674 | | 4.00 | 10.0 | mg/L | 20 | 02-Feb-2021 13:55 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 1,200 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-17
 Collection Date: 25-Jan-2021 11:00

ANALYTICAL REPORT

WorkOrder:HS21010988
 Lab ID:HS21010988-03
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.0440 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 15:52 |
| Calcium | 3.06 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 15:52 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 9.40 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 19:36 |
| Sulfate | 7.68 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 19:36 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 116 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-19
 Collection Date: 25-Jan-2021 09:25

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-04
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD |
| Boron | 0.0421 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:00 |
| Calcium | 40.4 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:00 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 44.9 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 21:07 |
| Sulfate | 89.3 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 21:07 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: JAC |
| Total Dissolved Solids (Residue, Filterable) | 184 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-20
 Collection Date: 25-Jan-2021 11:05

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-05
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.0463 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:02 |
| Calcium | 42.5 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:02 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 17.4 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 21:25 |
| Sulfate | 75.8 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 21:25 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 138 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-21
 Collection Date: 25-Jan-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-06
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD |
| Boron | 0.594 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:14 |
| Calcium | 98.8 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:14 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 44.8 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 21:43 |
| Sulfate | 377 | | 2.00 | 5.00 | mg/L | 10 | 01-Feb-2021 22:01 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: JAC |
| Total Dissolved Solids (Residue, Filterable) | 588 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-22
 Collection Date: 25-Jan-2021 09:25

ANALYTICAL REPORT

WorkOrder:HS21010988
 Lab ID:HS21010988-07
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD |
| Boron | 0.0383 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:04 |
| Calcium | 60.5 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:04 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 39.8 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 22:19 |
| Sulfate | 93.6 | | 0.200 | 0.500 | mg/L | 1 | 01-Feb-2021 22:19 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: JAC |
| Total Dissolved Solids (Residue, Filterable) | 198 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-27R
 Collection Date: 25-Jan-2021 09:55

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-08
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.210 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:16 |
| Calcium | 499 | | 0.340 | 5.00 | mg/L | 10 | 03-Feb-2021 17:03 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 1,800 | | 20.0 | 50.0 | mg/L | 100 | 01-Feb-2021 23:13 |
| Sulfate | 548 | | 20.0 | 50.0 | mg/L | 100 | 01-Feb-2021 23:13 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 3,590 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-28
 Collection Date: 25-Jan-2021 10:40

ANALYTICAL REPORT

WorkOrder:HS21010988
 Lab ID:HS21010988-09
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|-------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.231 | | 0.110 | 0.200 | mg/L | 10 | 03-Feb-2021 17:11 |
| Calcium | 599 | | 0.340 | 5.00 | mg/L | 10 | 03-Feb-2021 17:11 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 2,420 | | 20.0 | 50.0 | mg/L | 100 | 01-Feb-2021 23:49 |
| Sulfate | 623 | | 2.00 | 5.00 | mg/L | 10 | 01-Feb-2021 23:31 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 5,080 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: DUP-01
 Collection Date: 25-Jan-2021 11:00

ANALYTICAL REPORT

WorkOrder:HS21010988
 Lab ID:HS21010988-10
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | 0.0496 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:20 |
| Calcium | 39.6 | | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:20 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 45.2 | | 0.200 | 0.500 | mg/L | 1 | 02-Feb-2021 01:20 |
| Sulfate | 89.4 | | 0.200 | 0.500 | mg/L | 1 | 02-Feb-2021 01:20 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | 214 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: FB-01
 Collection Date: 25-Jan-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21010988
 Lab ID:HS21010988-11
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|---------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Boron | < 0.0110 | | 0.0110 | 0.0200 | mg/L | 1 | 03-Feb-2021 16:24 |
| Calcium | 0.215 | J | 0.0340 | 0.500 | mg/L | 1 | 03-Feb-2021 16:24 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 0.344 | J | 0.200 | 0.500 | mg/L | 1 | 02-Feb-2021 01:38 |
| Sulfate | 0.461 | J | 0.200 | 0.500 | mg/L | 1 | 02-Feb-2021 01:38 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: JAC | |
| Total Dissolved Solids (Residue, Filterable) | < 5.00 | | 5.00 | 10.0 | mg/L | 1 | 01-Feb-2021 13:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

Batch ID: 162160 **Start Date:** 02 Feb 2021 15:00 **End Date:** 02 Feb 2021 19:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21010988-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010988-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|---|---------------|-------------------|----------------------------|-----|
| Batch ID: 162160 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21010988-01 | MW-01 | 25 Jan 2021 11:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 15:28 | 1 |
| HS21010988-02 | MW-02 | 25 Jan 2021 09:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:50 | 10 |
| HS21010988-02 | MW-02 | 25 Jan 2021 09:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 15:30 | 1 |
| HS21010988-03 | MW-17 | 25 Jan 2021 11:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 15:52 | 1 |
| HS21010988-04 | MW-19 | 25 Jan 2021 09:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:00 | 1 |
| HS21010988-05 | MW-20 | 25 Jan 2021 11:05 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:02 | 1 |
| HS21010988-06 | MW-21 | 25 Jan 2021 10:10 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:14 | 1 |
| HS21010988-07 | MW-22 | 25 Jan 2021 09:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:04 | 1 |
| HS21010988-08 | MW-27R | 25 Jan 2021 09:55 | | 02 Feb 2021 19:00 | 03 Feb 2021 17:03 | 10 |
| HS21010988-08 | MW-27R | 25 Jan 2021 09:55 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:16 | 1 |
| HS21010988-09 | MW-28 | 25 Jan 2021 10:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 17:11 | 10 |
| HS21010988-10 | DUP-01 | 25 Jan 2021 11:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:20 | 1 |
| HS21010988-11 | FB-01 | 25 Jan 2021 10:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:24 | 1 |
| Batch ID: R377312 (0) | | Test Name : ANIONS BY E300.0 | | | Matrix: Groundwater | |
| HS21010988-01 | MW-01 | 25 Jan 2021 11:25 | | | 01 Feb 2021 18:24 | 10 |
| HS21010988-01 | MW-01 | 25 Jan 2021 11:25 | | | 01 Feb 2021 18:06 | 1 |
| HS21010988-03 | MW-17 | 25 Jan 2021 11:00 | | | 01 Feb 2021 19:36 | 1 |
| HS21010988-04 | MW-19 | 25 Jan 2021 09:25 | | | 01 Feb 2021 21:07 | 1 |
| HS21010988-05 | MW-20 | 25 Jan 2021 11:05 | | | 01 Feb 2021 21:25 | 1 |
| HS21010988-06 | MW-21 | 25 Jan 2021 10:10 | | | 01 Feb 2021 22:01 | 10 |
| HS21010988-06 | MW-21 | 25 Jan 2021 10:10 | | | 01 Feb 2021 21:43 | 1 |
| HS21010988-07 | MW-22 | 25 Jan 2021 09:25 | | | 01 Feb 2021 22:19 | 1 |
| HS21010988-08 | MW-27R | 25 Jan 2021 09:55 | | | 01 Feb 2021 23:13 | 100 |
| HS21010988-09 | MW-28 | 25 Jan 2021 10:40 | | | 01 Feb 2021 23:49 | 100 |
| HS21010988-09 | MW-28 | 25 Jan 2021 10:40 | | | 01 Feb 2021 23:31 | 10 |
| HS21010988-10 | DUP-01 | 25 Jan 2021 11:00 | | | 02 Feb 2021 01:20 | 1 |
| HS21010988-11 | FB-01 | 25 Jan 2021 10:00 | | | 02 Feb 2021 01:38 | 1 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-----------|----------------------------|----|
| Batch ID: R377341 (0) | | Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C | | | Matrix: Groundwater | |
| HS21010988-01 | MW-01 | 25 Jan 2021 11:25 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-02 | MW-02 | 25 Jan 2021 09:40 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-03 | MW-17 | 25 Jan 2021 11:00 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-04 | MW-19 | 25 Jan 2021 09:25 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-05 | MW-20 | 25 Jan 2021 11:05 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-06 | MW-21 | 25 Jan 2021 10:10 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-07 | MW-22 | 25 Jan 2021 09:25 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-08 | MW-27R | 25 Jan 2021 09:55 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-09 | MW-28 | 25 Jan 2021 10:40 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-10 | DUP-01 | 25 Jan 2021 11:00 | | | 01 Feb 2021 13:47 | 1 |
| HS21010988-11 | FB-01 | 25 Jan 2021 10:00 | | | 01 Feb 2021 13:47 | 1 |
| Batch ID: R377355 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21010988-01 | MW-01 | 25 Jan 2021 11:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-02 | MW-02 | 25 Jan 2021 09:40 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-03 | MW-17 | 25 Jan 2021 11:00 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-04 | MW-19 | 25 Jan 2021 09:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-05 | MW-20 | 25 Jan 2021 11:05 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-06 | MW-21 | 25 Jan 2021 10:10 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-07 | MW-22 | 25 Jan 2021 09:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-08 | MW-27R | 25 Jan 2021 09:55 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-09 | MW-28 | 25 Jan 2021 10:40 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-10 | DUP-01 | 25 Jan 2021 11:00 | | | 02 Feb 2021 15:33 | 1 |
| HS21010988-11 | FB-01 | 25 Jan 2021 10:00 | | | 02 Feb 2021 15:33 | 1 |
| Batch ID: R377405 (0) | | Test Name : ANIONS BY E300.0 | | | Matrix: Groundwater | |
| HS21010988-02 | MW-02 | 25 Jan 2021 09:40 | | | 02 Feb 2021 13:55 | 20 |

WorkOrder: HS21010988
 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: HS21010988
 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: HS21010988
 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 Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

| Batch ID: 162160 (0) | | Instrument: ICPMS05 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|-------------------------|------------------------------------|-------------------------------|-----------------------|---|---------------|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: MBLK-162160 | Units: mg/L | | Analysis Date: 03-Feb-2021 15:11 | | | | | | |
| Client ID: | | Run ID: ICPMS05_377445 | SeqNo: 5942647 | PrepDate: 02-Feb-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-162160 | Units: mg/L | | Analysis Date: 03-Feb-2021 15:13 | | | | | | |
| Client ID: | | Run ID: ICPMS05_377445 | SeqNo: 5942648 | PrepDate: 02-Feb-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.4931 | 0.0200 | 0.5 | 0 | 98.6 | 80 - 120 | | | | |
| Calcium | 4.893 | 0.500 | 5 | 0 | 97.9 | 80 - 120 | | | | |
| MS | Sample ID: HS21010988-02MS | Units: mg/L | | Analysis Date: 03-Feb-2021 16:06 | | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS05_377445 | SeqNo: 5942666 | PrepDate: 02-Feb-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5936 | 0.0200 | 0.5 | 0.02891 | 113 | 80 - 120 | | | | |
| Calcium | 206.2 | 0.500 | 5 | 215.4 | -184 | 80 - 120 | | | | SEO |
| MSD | Sample ID: HS21010988-02MSD | Units: mg/L | | Analysis Date: 03-Feb-2021 15:36 | | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS05_377445 | SeqNo: 5942655 | PrepDate: 02-Feb-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5608 | 0.0200 | 0.5 | 0.02891 | 106 | 80 - 120 | 0.5936 | 5.67 | 20 | |
| Calcium | 208.4 | 0.500 | 5 | 215.4 | -138 | 80 - 120 | 206.2 | 1.1 | 20 | SEO |
| PDS | Sample ID: HS21010988-02PDS | Units: mg/L | | Analysis Date: 03-Feb-2021 16:54 | | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS05_377445 | SeqNo: 5942763 | PrepDate: 02-Feb-2021 | DF: 10 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 318.7 | 5.00 | 100 | 216.7 | 102 | 75 - 125 | | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

Batch ID: 162160 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

SD Sample ID: **HS21010988-02SD** Units: **mg/L** Analysis Date: **03-Feb-2021 15:32**
Client ID: **MW-02** Run ID: **ICPMS05_377445** SeqNo: **5942654** PrepDate: **02-Feb-2021** DF: **5**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Boron < 0.0550 0.100 0.02891 0 10

SD Sample ID: **HS21010988-02SD** Units: **mg/L** Analysis Date: **03-Feb-2021 16:52**
Client ID: **MW-02** Run ID: **ICPMS05_377445** SeqNo: **5942762** PrepDate: **02-Feb-2021** DF: **50**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Calcium 204.1 25.0 216.7 5.81 10

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21010988-01 | HS21010988-02 | HS21010988-03 | HS21010988-04 |
| HS21010988-05 | HS21010988-06 | HS21010988-07 | HS21010988-08 |
| HS21010988-09 | HS21010988-10 | HS21010988-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

| Batch ID: R377312 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0 | | | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|--------------------------|---|---------------|---------------|--------------|----------------|--|
| MBLK | Sample ID: MBLK-020121 | Units: mg/L | | | Analysis Date: 02-Feb-2021 04:39 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_377312 | | SeqNo: 5939720 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 0.204 | 0.500 | | | | | | | J | |
| Sulfate | < 0.200 | 0.500 | | | | | | | | |
| LCS | Sample ID: LCS-020121 | Units: mg/L | | | Analysis Date: 02-Feb-2021 04:57 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_377312 | | SeqNo: 5939721 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 19.48 | 0.500 | 20 | 0 | 97.4 | 90 - 110 | | | | |
| Sulfate | 19.33 | 0.500 | 20 | 0 | 96.6 | 90 - 110 | | | | |
| MS | Sample ID: HS21020030-01MS | Units: mg/L | | | Analysis Date: 01-Feb-2021 16:43 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_377312 | | SeqNo: 5939692 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 37.97 | 0.500 | 10 | 28.21 | 97.6 | 80 - 120 | | | | |
| Sulfate | 26.83 | 0.500 | 10 | 17 | 98.2 | 80 - 120 | | | | |
| MS | Sample ID: HS21010988-07MS | Units: mg/L | | | Analysis Date: 01-Feb-2021 22:37 | | | | | |
| Client ID: MW-22 | | Run ID: ICS-Integrion_377312 | | SeqNo: 5939704 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 48.55 | 0.500 | 10 | 39.84 | 87.1 | 80 - 120 | | | | |
| Sulfate | 99.8 | 0.500 | 10 | 93.57 | 62.3 | 80 - 120 | | | SO | |
| MSD | Sample ID: HS21020030-01MSD | Units: mg/L | | | Analysis Date: 01-Feb-2021 17:01 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_377312 | | SeqNo: 5939693 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 37.46 | 0.500 | 10 | 28.21 | 92.5 | 80 - 120 | 37.97 | 1.36 | 20 | |
| Sulfate | 26.3 | 0.500 | 10 | 17 | 93.0 | 80 - 120 | 26.83 | 1.98 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

Batch ID: R377312 (0) Instrument: ICS-Integrion Method: ANIONS BY E300.0

MSD Sample ID: HS21010988-07MSD Units: mg/L Analysis Date: 01-Feb-2021 22:55
Client ID: MW-22 Run ID: ICS-Integrion_377312 SeqNo: 5939705 PrepDate: DF: 1
Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | | |
|----------|-------|-------|----|-------|------|----------|-------|------|----|----|
| Chloride | 49.23 | 0.500 | 10 | 39.84 | 93.9 | 80 - 120 | 48.55 | 1.4 | 20 | |
| Sulfate | 102 | 0.500 | 10 | 93.57 | 84.8 | 80 - 120 | 99.8 | 2.22 | 20 | EO |

The following samples were analyzed in this batch: HS21010988-01 HS21010988-03 HS21010988-04 HS21010988-05
HS21010988-06 HS21010988-07 HS21010988-08 HS21010988-09
HS21010988-10 HS21010988-11

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

Batch ID: R377341 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C

| | | | | | | | | | | |
|-------------|--------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: WBLK-020121 | Units: mg/L | | | Analysis Date: 01-Feb-2021 13:47 | | | | | |
| Client ID: | Run ID: Balance1_377341 | SeqNo: 5940266 | PrepDate: | DF: 1 | | | | | | |
| Analyte | Result | MLQ | 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-020121 | Units: mg/L | | | Analysis Date: 01-Feb-2021 13:47 | | | | | |
| Client ID: | Run ID: Balance1_377341 | SeqNo: 5940267 | PrepDate: | DF: 1 | | | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Total Dissolved Solids (Residue, Filterable) 996 10.0 1000 0 99.6 85 - 115

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21010988-06DUP | Units: mg/L | | | Analysis Date: 01-Feb-2021 13:47 | | | | | |
| Client ID: MW-21 | Run ID: Balance1_377341 | SeqNo: 5940254 | PrepDate: | DF: 1 | | | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Total Dissolved Solids (Residue, Filterable) 584 10.0 588 0.683 5

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21010988-02DUP | Units: mg/L | | | Analysis Date: 01-Feb-2021 13:47 | | | | | |
| Client ID: MW-02 | Run ID: Balance1_377341 | SeqNo: 5940249 | PrepDate: | DF: 1 | | | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Total Dissolved Solids (Residue, Filterable) 1208 10.0 1202 0.498 5

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21010988-01 | HS21010988-02 | HS21010988-03 | HS21010988-04 |
| HS21010988-05 | HS21010988-06 | HS21010988-07 | HS21010988-08 |
| HS21010988-09 | HS21010988-10 | HS21010988-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

QC BATCH REPORT

| Batch ID: R377405 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0 | | | | | |
|-------------------------|-------------------------------|-------------------------------------|---------|--------------------------|---|---------------|---------------|--------------|----------------|
| MBLK | Sample ID: MBLK-020221 | Units: mg/L | | | Analysis Date: 03-Feb-2021 06:49 | | | | |
| Client ID: | | Run ID: ICS-Integrion_377405 | | SeqNo: 5941861 | | PrepDate: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 0.215 | 0.500 | | | | | | | J |
| Sulfate | 0.2079 | 0.500 | | | | | | | J |

| LCS | Sample ID: LCS-020221 | Units: mg/L | | | Analysis Date: 03-Feb-2021 07:07 | | | | |
|------------|------------------------------|-------------------------------------|---------|-----------------------|---|---------------|---------------|--------------|----------------|
| Client ID: | | Run ID: ICS-Integrion_377405 | | SeqNo: 5941862 | | PrepDate: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 19.44 | 0.500 | 20 | 0 | 97.2 | 90 - 110 | | | |
| Sulfate | 19.33 | 0.500 | 20 | 0 | 96.6 | 90 - 110 | | | |

| MS | Sample ID: HS21010988-02MS | Units: mg/L | | | Analysis Date: 02-Feb-2021 14:49 | | | | |
|-------------------------|-----------------------------------|-------------------------------------|---------|-----------------------|---|---------------|---------------|---------------|----------------|
| Client ID: MW-02 | | Run ID: ICS-Integrion_377405 | | SeqNo: 5941845 | | PrepDate: | | DF: 20 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 497 | 10.0 | 200 | 302.3 | 97.4 | 80 - 120 | | | |
| Sulfate | 874.1 | 10.0 | 200 | 673.8 | 100 | 80 - 120 | | | |

| MSD | Sample ID: HS21010988-02MSD | Units: mg/L | | | Analysis Date: 02-Feb-2021 15:07 | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|-----------------------|---|---------------|---------------|---------------|----------------|
| Client ID: MW-02 | | Run ID: ICS-Integrion_377405 | | SeqNo: 5941846 | | PrepDate: | | DF: 20 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 495 | 10.0 | 200 | 302.3 | 96.4 | 80 - 120 | 497 | 0.399 | 20 |
| Sulfate | 857.1 | 10.0 | 200 | 673.8 | 91.6 | 80 - 120 | 874.1 | 1.97 | 20 |

The following samples were analyzed in this batch: HS21010988-02

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21010988

**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 Limestone - Appendix III
Work Order: HS21010988

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|----------------------|--------|--------------|
| HS21010988-01 | MW-01 | Login | 1/26/2021 3:58:41 PM | PMG | MET084 |
| HS21010988-01 | MW-01 | Login | 1/26/2021 3:58:41 PM | PMG | Sub |
| HS21010988-01 | MW-01 | Login | 1/26/2021 3:58:41 PM | PMG | WET317 |

Sample Receipt Checklist

Work Order ID: HS21010988

Date/Time Received: **26-Jan-2021 11:20**

Client Name: TRC-HOU

Received by: **Jared R. Makan**

| | | | |
|--|-------------------|---|-------------------|
| Completed By: <u>/S/ Paresh M. Giga</u> | 26-Jan-2021 17:37 | Reviewed by: <u>/S/ Corey Grandits</u> | 27-Jan-2021 17:00 |
| eSignature | Date/Time | eSignature | Date/Time |

Matrices: **Water**

Carrier name: **ALS Courier**

| | | | |
|---|---|--|--|
| 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"/> | 2 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:231097/231098 |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 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): | 0.5C; 0.7C; 0.2C U/C IR31 | | |
| Cooler(s)/Kit(s): | 46715/46687/46434 | | |
| Date/Time sample(s) sent to storage: | 1/26/2021 17:40 | | |
| 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: | <input type="text"/> | | |

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

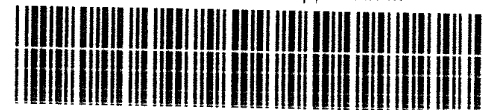
Chain of Custody Form

HS21010988

TRC Corporation
NRG WA Parish - Appendix III

Page 1 of 2

COC ID: 231097



ALS Project Manager:

| Customer Information | | Project Information | |
|----------------------|--------------------------------|---------------------|------------------------------------|
| Purchase Order | NEED | Project Name | NRG Limestone- 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-01 | 1-25-21 | 1125 | W | 2, 8 | | X | X | X | X | | | | | | | |
| 2 | MW-02 | | 940 | | | | (X) | (X) | (X) | (X) | | | | | | | |
| 3 | MW-17 | | 1100 | | | | X | X | X | X | | | | | | | |
| 4 | MW-19 | | 925 | | | | X | X | X | X | | | | | | | |
| 5 | MW-20 | | 1105 | | | | X | X | X | X | | | | | | | |
| 6 | MW-21 | | 1010 | | | | X | X | X | X | | | | | | | |
| 7 | MW-22 | | 925 | | | | X | X | X | X | | | | | | | |
| 8 | MW-27R | | 955 | | | | X | X | X | X | | | | | | | |
| 9 | MW-28 MW-28 | | 1040 | | | | X | X | X | X | | | | | | | |
| 10 | Dup-01 | | 1100 | | | | X | X | X | X | | | | | | | |

Sampler(s) Please Print & Sign
Brian Hillen + HMI Team

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box)
 STD 10 Wk Days 5 Wk Days 2 Wk Days 24-hour

Results Due Date: _____

Relinquished by: Amorey Haber Date: 1-25-21 Time: 1300

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by (Laboratory): Jan Date: 1/26/2021 Time: 11:20

Checked by (Laboratory): _____

Logged by (Laboratory): _____ Date: _____ Time: _____

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

Notes: _____

NRG Limestone PRIVILEGED & CONFIDENTIAL

Cooler ID: 46713 Cooler Temp.: 0.50

Cooler ID: 46687 Cooler Temp.: 0.70

Cooler ID: 46434 Cooler Temp.: 0.20

QC Package: (Check One Box Below)
 Level II Std QC TPRP Check list
 Level III Std QC/Raw Data TPRP Level IV
 Level IV SWB43/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.



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: **231098**

HS21010988

TRC Corporation
NRG WA Parish - Appendix III




WV

| Customer Information | | Project Information | | ALS Project Manager: | | | | | | | | | | | |
|----------------------|--------------------------------|---------------------|------------------------------------|----------------------|---|--|--|--|--|--|--|--|--|--|--|
| Purchase Order | NEED | Project Name | NRG Limestone- Appendix III | A | ICP_TW(B and Ca (App III)) | | | | | | | | | | |
| Work Order | | Project Number | | B | 300_W(CI, SQ4) | | | | | | | | | | |
| Company Name | TRC Corporation | Bill To Company | TRC Corporation | C | Sub_Fluoride (Sub Fluoride to ALS Michigan) | | | | | | | | | | |
| Send Report To | Lori Burris | Invoice Attn | A/P | D | TDS_W 2540C (TDS) | | | | | | | | | | |
| Address | 10550 Richmond Ave., Suite 210 | Address | 16350 Park Ten Place Suite 101 | E | | | | | | | | | | | |
| City/State/Zip | Houston, TX 77042 | City/State/Zip | Houston TX 77034 | F | | | | | | | | | | | |
| Phone | (713) 244-1000 | Phone | (713) 244-1000 | G | | | | | | | | | | | |
| Fax | (713) 244-1099 | Fax | (713) 244-1099 | H | | | | | | | | | | | |
| e-Mail Address | L.Burris@trcsolutions.com | e-Mail Address | apinvoiceapproval@trcsolutions.com | I | | | | | | | | | | | |
| | | | | J | | | | | | | | | | | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|--------------------|---------|------|--------|-------|-----------|---|---|---|---|---|---|---|---|---|---|------|
| 1 | FB-01 | 1.25.21 | 1000 | W | Z, S | | X | X | X | X | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--|-------------------------|----------------------------------|---------------------------|--|--------------|--|---|-------------------|--|--|--|--|--|
| Sampler(s) Please Print & Sign Brian Hillin + HMI Team | | Shipment Method Fed Ex | | 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: Ameron Haber | Date: 1.25.21 | Time: 1300 | Received by: | Notes: NRG Limestone PRIVILEGED & CONFIDENTIAL | | | | | | | | | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): | Cooler ID | Cooler Temp. | QC Package: (Check One Box Below) | | | | | | | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | | <input type="checkbox"/> Level II Std QC | <input checked="" 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 St: GC/Raw Date | <input type="checkbox"/> TRRP Level IV | | | | | | |
| | | | | | | <input type="checkbox"/> Level IV SW843/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: 1/25/21 | Time: | RM |
| | Name: | Company: | Date: 01/26/21 |

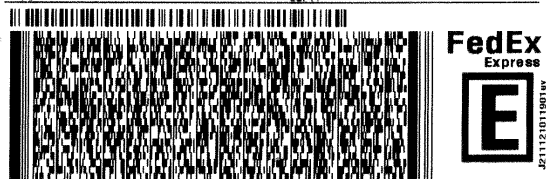
46687 JAN 26 2021

| | | |
|--|---|-------------------------------|
| ORIGIN ID: ACTA (713) 464-5206 SCOTT UDE | SHIP DATE: 25 JAN 21 ACTWT: 83.95 LB CAD: 6993649/99FE2121 DIMS: 22x13x13 IN | Part # 136299/FEAR/6298/09/21 |
| 1654 W SAM HOUSTON PKWY N HOUSTON, TX 77043 UNITED STATES US | BILL THIRD PARTY | |

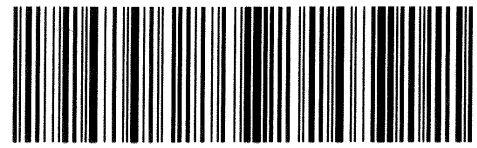
TO SHIPPING & RECEIVING
 ALS ENVIROMENT HOUSTON LAB
 10450 STANCLIFF RD
 STE 210
 HOUSTON TX 77099


46687

(281) 630-6666 REF: INU: DEPT: PO:

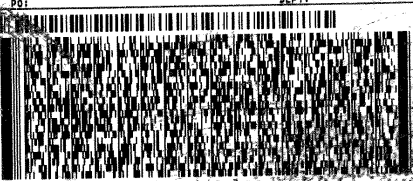

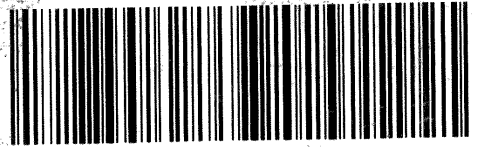



2 of 3
 MPS# 7829 9635 7718
 Mstr# 8729 9719 1624 0215
43 SGRA
 TUE - 26 JAN 10:30A
 PRIORITY OVERNIGHT
 77099
 TX-US IAH



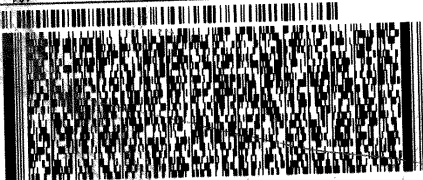

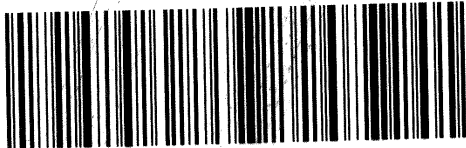
| | | | |
|---|---------------------|----------|-----------------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | CUSTODY SEAL | | Seal Broken By: SM |
| | Date: 1/5/21 | Time: | Date: 01/26/21 |
| 46715 | Name: JM | Company: | |

46715 JAN 26 2021

| | |
|---|---|
| ORIGIN ID: ACTA (713) 464-5206 SCOTT UDE 1654 W SAM HOUSTON PKWY N HOUSTON, TX 77043 UNITED STATES US | SHIP DATE: 25 JAN 21 ACTWT: 69.95 LB CAD: 6993649/SSFE2121 DIMS: 22x13x13 IN BILL THIRD PARTY |
| TO SHIPPING & RECEIVING ALS ENVIROMENT HOUSTON LAB 10450 STANCLIFF RD STE 210 HOUSTON TX 77099 (281) 530-5656 REF1 DEPT: | |
|  | |
| FedEx Express  | |
| 1 of 3 TRK# 8729 9719 1624 0215 ## MASTER ## 43 SGRA | TUE - 26 JAN 10:30A PRIORITY OVERNIGHT 77099 TX-US IAH |
|  | |

| | | | |
|---|---|-------|----------------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | CUSTODY SEAL | | Seal Broken By: |
| | 46434 Date: 1-25-21 Name: JMT Company: | Time: | JM Date: 01/26/21 |

46434 JAN 26 2021

| | |
|---|--|
| ORIGIN ID: ACTA (713) 464-5206 SCOTT UDE 1654 W SAM HOUSTON PKWY N HOUSTON, TX 77043 UNITED STATES US | SHIP DATE: 25 JAN 21 ACTWGT: 63.95 LB CAD: 6993649/SSFE2121 DIMS: 22x13x13 IN BILL THIRD PARTY |
| TO SHIPPING & RECEIVING ALS ENVIROMENT HOUSTON LAB 10450 STANCLIFF RD STE 210 HOUSTON TX 77099 (281) 530-5656 REF: | |
| NO. 201 DEPT: | |
|  | |
| FedEx Express  | |
| 3 of 3 MPS# 7829 9635 7729 OBB1 Metr# 8729 9719 1624 43 SGRA | |
| TUE - 26 JAN 10:30A PRIORITY OVERNIGHT 77099 TX-US IAH | |
|  | |



28-Feb-2021

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

Re: **HS21010988**

Work Order: **21012013**

Dear Corey,

ALS Environmental received 11 samples on 27-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 25.

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 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 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER
Privileged and Confidential
Page 47 of 71

Client: ALS Environmental
Project: HS21010988
Work Order: 21012013

**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_210201A, 02A | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21012013, 21012014 | | | | | |
| Analyst Name: QN | | Date 2/1-2/2/21 | Reviewer Name: RM | | Date: 2/2/21 | | |
| | 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: HS21010988
 Work Order: 21012013

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21012013-01 | HS21010988-01 | Groundwater | MW-01 | 1/25/2021 11:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-02 | HS21010988-02 | Groundwater | MW-02 | 1/25/2021 09:40 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-03 | HS21010988-03 | Groundwater | MW-17 | 1/25/2021 11:00 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-04 | HS21010988-04 | Groundwater | MW-19 | 1/25/2021 09:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-05 | HS21010988-05 | Groundwater | MW-20 | 1/25/2021 11:05 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-06 | HS21010988-06 | Groundwater | MW-21 | 1/25/2021 10:10 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-07 | HS21010988-07 | Groundwater | MW-22 | 1/25/2021 09:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-08 | HS21010988-08 | Groundwater | MW-27R | 1/25/2021 09:55 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-09 | HS21010988-09 | Groundwater | MW-28 | 1/25/2021 10:40 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-10 | HS21010988-10 | Groundwater | DUP-01 | 1/25/2021 11:00 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012013-11 | HS21010988-11 | Groundwater | FB-01 | 1/25/2021 10:00 | 1/27/2021 10:00 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21010988
WorkOrder: 21012013

**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: 21012013
 Client: ALS Environmental
 Project: HS21010988

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|---|------------------|-------------|-----------------------|-----------|-----------|-------------------|
| Batch ID R309043 Test Name: Fluoride | | | | | | |
| 21012013-01A | HS21010988-01 | Groundwater | 1/25/2021 11:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-02A | HS21010988-02 | | 1/25/2021 9:40:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-03A | HS21010988-03 | | 1/25/2021 11:00:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-04A | HS21010988-04 | | 1/25/2021 9:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-05A | HS21010988-05 | | 1/25/2021 11:05:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-06A | HS21010988-06 | | 1/25/2021 10:10:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-07A | HS21010988-07 | | 1/25/2021 9:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-08A | HS21010988-08 | | 1/25/2021 9:55:00 AM | | | 2/1/2021 01:40 PM |
| 21012013-09A | HS21010988-09 | | 1/25/2021 10:40:00 AM | | | 2/1/2021 01:40 PM |
| Batch ID R309125 Test Name: Fluoride | | | | | | |
| 21012013-10A | HS21010988-10 | Groundwater | 1/25/2021 11:00:00 AM | | | 2/2/2021 02:29 PM |
| 21012013-11A | HS21010988-11 | | 1/25/2021 10:00:00 AM | | | 2/2/2021 02:29 PM |

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-01
Collection Date: 1/25/2021 11:25 AM

Work Order: 21012013
Lab ID: 21012013-01
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.070 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-02
Collection Date: 1/25/2021 09:40 AM

Work Order: 21012013
Lab ID: 21012013-02
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-03
Collection Date: 1/25/2021 11:00 AM

Work Order: 21012013
Lab ID: 21012013-03
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.15 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-04
Collection Date: 1/25/2021 09:25 AM

Work Order: 21012013
Lab ID: 21012013-04
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-05
Collection Date: 1/25/2021 11:05 AM

Work Order: 21012013
Lab ID: 21012013-05
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.21 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-06
Collection Date: 1/25/2021 10:10 AM

Work Order: 21012013
Lab ID: 21012013-06
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-07
Collection Date: 1/25/2021 09:25 AM

Work Order: 21012013
Lab ID: 21012013-07
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | MLL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-08
Collection Date: 1/25/2021 09:55 AM

Work Order: 21012013
Lab ID: 21012013-08
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-09
Collection Date: 1/25/2021 10:40 AM

Work Order: 21012013
Lab ID: 21012013-09
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.17 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-10
Collection Date: 1/25/2021 11:00 AM

Work Order: 21012013
Lab ID: 21012013-10
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.090 | J | 0.058 | 0.10 | mg/L | 1 | 2/2/2021 14:29 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010988
Sample ID: HS21010988-11
Collection Date: 1/25/2021 10:00 AM

Work Order: 21012013
Lab ID: 21012013-11
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 | 2/2/2021 14:29 |

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

WorkOrder: 21012013
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: 21012013
 Project: HS21010988

QC BATCH REPORT

Batch ID: **R309043** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| | | | | | | | | | | |
|-------------|--------|--------------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| MBLK | | Sample ID: MB-R309043-R309043 | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111817 | | 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-R309043-R309043 | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111818 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0 97.2 80-120 0

| | | | | | | | | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| MS | | Sample ID: 21012013-02AMS | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: HS21010988-02 | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111832 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.88 0.10 5 0.03 97 75-125 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| MS | | Sample ID: 21012014-02AMS | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111843 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.88 0.10 5 0.03 97 75-125 0

| | | | | | | | | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| MSD | | Sample ID: 21012013-02AMSD | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: HS21010988-02 | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111833 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0.03 96.6 75-125 4.88 0.411 20

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| MSD | | Sample ID: 21012014-02AMSD | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111844 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0.03 96.6 75-125 4.88 0.411 20

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21012013-01A | 21012013-02A | 21012013-03A |
| 21012013-04A | 21012013-05A | 21012013-06A |
| 21012013-07A | 21012013-08A | 21012013-09A |

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

Client: ALS Environmental
 Work Order: 21012013
 Project: HS21010988

QC BATCH REPORT

Batch ID: **R309125** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R309125-R309125 | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114586 | | 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-R309125-R309125 | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114587 | | 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: 21012091-01G MS | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114597 | | 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 | 0.07 | 98.6 | 75-125 | 0 | | | | |

| MSD | | Sample ID: 21012091-01G MSD | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114598 | | 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 | 0.07 | 99.6 | 75-125 | 5 | 0.995 | 20 | | |

The following samples were analyzed in this batch:

| | |
|--------------|--------------|
| 21012013-10A | 21012013-11A |
|--------------|--------------|

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



2/10/2013

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: 15538

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: HS21010988
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|----------------------|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21010988-01 | MW-01 | Groundwater | 25 Jan 2021 11:25 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 2. | HS21010988-02 | MW-02 | Groundwater | 25 Jan 2021 09:40 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 3. | HS21010988-03 | MW-17 | Groundwater | 25 Jan 2021 11:00 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 4. | HS21010988-04 | MW-19 | Groundwater | 25 Jan 2021 09:25 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 5. | HS21010988-05 | MW-20 | Groundwater | 25 Jan 2021 11:05 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 6. | HS21010988-06 | MW-21 | Groundwater | 25 Jan 2021 10:10 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 7. | HS21010988-07 | MW-22 | Groundwater | 25 Jan 2021 09:25 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 8. | HS21010988-08 | MW-27R | Groundwater | 25 Jan 2021 09:55 |
| | Fluoride by ISE 4500 | | | 03 Feb 2021 |
| 9. | HS21010988-09 | MW-28 | Groundwater | 25 Jan 2021 10:40 |





Subcontract Chain of Custody

SAMPLING STATE: Texas


COC ID: 15538

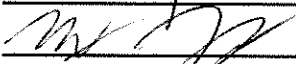
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--------------------------|----------------------|--------------------|--------------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| | Fluoride by ISE 4500 | | 03 Feb 2021 |
| 10. HS21010988-10 | DUP-01 | Groundwater | 25 Jan 2021 11:00 |
| | Fluoride by ISE 4500 | | 03 Feb 2021 |
| 11. HS21010988-11 | FB-01 | Groundwater | 25 Jan 2021 10:00 |
| | Fluoride by ISE 4500 | | 03 Feb 2021 |

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 Sample maybe high in Salts and Minerals.
 MS/MSD must be performed on client sample.
 HS21010988-02 = MS/MSD

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

Relinquished By:



 Received By: 

 Cooler ID(s): _____

Date/Time:

1/26/2021 1800

Date/Time:

1/27/2021 10:00

Temperature(s):

2.4°C IN pH 2.4



Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **27-Jan-21 10:00**

Work Order: **21012013**

Received by: **MJG**

Checklist completed by Matthew Gaylord 27-Jan-21
eSignature Date

Reviewed by: Chad Whelton 27-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): 2.4/2.4C IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 1/27/2021 3:18:47 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:



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

February 28, 2021

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

Work Order: **HS21010989**

Laboratory Results for: **NRG Limestone - Appendix IV**

Dear Lori Burris,

ALS Environmental received 11 sample(s) on Jan 26, 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 Limestone - Appendix IV
WorkOrder: HS21010989

**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 Limestone - Appendix IV
WorkOrder: HS21010989

**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: 02/28/2021 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix IV | | Laboratory Job Number: HS21010989 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 161956,162160,162161,R377355,R378685 | | | | | |
| # 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: 02/28/2021 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix IV | | Laboratory Job Number: HS21010989 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 161956,162160,162161,R377355,R378685 | | | | | |
| # 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: 02/28/2021 |
| Project Name: NRG Limestone - Appendix IV | Laboratory Job Number: HS21010989 |
| Reviewer Name: Corey Grandits | Prep Batch Number(s): 161956,162160,162161,R377355,R378685 |

| ER# ⁵ | Description |
|------------------|---|
| 1 | Batch 162160, Metals Method SW6020, sample HS21010988-02, MS was performed on unrelated sample Batch 162161, Metals Method SW6020, sample MW-02, MS and MSD recovered outside the QC limit for Thallium due to suspect matrix effect |
| 2 | The analysis for Fluoride was subcontracted to ALS Holland, MI. Final report attached. The analysis for Rad-226/228 was subcontracted to ALS Fort Collins, CO. Final report attached. |
| 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 Limestone - Appendix IV
 WorkOrder: HS21010989
 Start Date: 02-Feb-2021

Run ID:ICPMS05_377344
 Instrument:ICPMS05
 Method:SW6020

End Date: 03-Feb-2021

| Sample No. | D/F | Time | FileID | Analytes |
|-------------|-----|-------------------|-----------|-------------------------------------|
| LLICV2 | 1 | 02-Feb-2021 13:13 | 021LCV2.d | AS BA BE CD CO CR MO PB SB SE |
| ICB | 1 | 02-Feb-2021 13:17 | 023_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICV | 1 | 02-Feb-2021 13:20 | 024_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV5 | 1 | 02-Feb-2021 13:22 | 025LCV5.d | AS BA BE CD CO CR MO PB SB SE |
| ICSA | 1 | 02-Feb-2021 13:24 | 026ICSA.d | AS BA BE CD CO CR MO PB SB SE |
| ICSAB | 1 | 02-Feb-2021 13:26 | 027ICSB.d | AS BA BE CD CO CR MO PB SB SE |
| CCV 1 | 1 | 02-Feb-2021 14:02 | 035_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 1 | 1 | 02-Feb-2021 14:04 | 036_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 02-Feb-2021 14:48 | 057LCV2.d | AS BA BE CD CO CR MO PB SB SE |
| LLICCV5 | 1 | 02-Feb-2021 14:50 | 058LCV5.d | AS BA BE CD CO CR MO PB SB SE |
| ICCB 2 | 1 | 02-Feb-2021 14:52 | 059_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 2 | 1 | 02-Feb-2021 14:54 | 060_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 3 | 1 | 02-Feb-2021 15:15 | 068_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 3 | 1 | 02-Feb-2021 15:17 | 069_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 4 | 1 | 02-Feb-2021 15:40 | 080_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 4 | 1 | 02-Feb-2021 15:42 | 081_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 5 | 1 | 02-Feb-2021 16:04 | 090_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 5 | 1 | 02-Feb-2021 16:06 | 091_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 6 | 1 | 02-Feb-2021 16:33 | 100_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 6 | 1 | 02-Feb-2021 16:35 | 101_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 7 | 1 | 02-Feb-2021 17:13 | 111_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 7 | 1 | 02-Feb-2021 17:15 | 112_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 8 | 1 | 02-Feb-2021 17:57 | 124_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 8 | 1 | 02-Feb-2021 18:03 | 125_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 9 | 1 | 02-Feb-2021 18:24 | 127_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 9 | 1 | 02-Feb-2021 18:26 | 128_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 10 | 1 | 02-Feb-2021 18:48 | 138_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 10 | 1 | 02-Feb-2021 18:50 | 139_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 11 | 1 | 02-Feb-2021 19:13 | 150_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 11 | 1 | 02-Feb-2021 19:15 | 151_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 12 | 1 | 02-Feb-2021 19:29 | 158_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 12 | 1 | 02-Feb-2021 19:31 | 159_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 13 | 1 | 02-Feb-2021 23:28 | 164_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 13 | 1 | 02-Feb-2021 23:29 | 165_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 14 | 1 | 02-Feb-2021 23:45 | 173_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 14 | 1 | 02-Feb-2021 23:47 | 174_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 15 | 1 | 02-Feb-2021 23:57 | 179_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 15 | 1 | 02-Feb-2021 23:59 | 180_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 16 | 1 | 03-Feb-2021 00:11 | 186_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 16 | 1 | 03-Feb-2021 00:13 | 187_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 17 | 1 | 03-Feb-2021 00:35 | 198_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 17 | 1 | 03-Feb-2021 00:47 | 200_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 18 | 1 | 03-Feb-2021 00:57 | 205_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 18 | 1 | 03-Feb-2021 00:59 | 206_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 19 | 1 | 03-Feb-2021 01:13 | 213_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 19 | 1 | 03-Feb-2021 01:15 | 214_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 20 | 1 | 03-Feb-2021 01:41 | 227_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 03-Feb-2021 01:45 | 229LCV5.d | AS BA BE CD CO CR MO PB SB SE |
| LLICCV2 | 1 | 03-Feb-2021 01:47 | 230LCV2.d | AS BA BE CD CO CR MO PB SB SE |
| ICCB 20 | 1 | 03-Feb-2021 01:49 | 231_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MBLK-162161 | 1 | 03-Feb-2021 01:51 | 232SMPL.d | AS BA BE CD CO CR MO PB SB SE |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation

Run ID:ICPMS05_377344

Project: NRG Limestone - Appendix IV

Instrument:ICPMS05

WorkOrder: HS21010989

Method:SW6020

Start Date: 02-Feb-2021

End Date: 03-Feb-2021

| Sample No. | D/F | Time | FileID | Analytes |
|------------|-----|-------------------|-----------|-------------------------------------|
| LCS-162161 | 1 | 03-Feb-2021 01:53 | 233SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| MW-02 | 1 | 03-Feb-2021 01:55 | 234SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| MW-02SD | 5 | 03-Feb-2021 01:57 | 235SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| MW-02MS | 1 | 03-Feb-2021 01:59 | 236SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| MW-02MSD | 1 | 03-Feb-2021 02:01 | 237SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| MW-02PDS | 1 | 03-Feb-2021 02:03 | 238SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| CCV 21 | 1 | 03-Feb-2021 02:05 | 239_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 21 | 1 | 03-Feb-2021 02:07 | 240_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| DUP-01 | 1 | 03-Feb-2021 02:09 | 241SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| FB-01 | 1 | 03-Feb-2021 02:11 | 242SMPL.d | AS BA BE CD CO CR MO PB SB SE |
| CCV 22 | 1 | 03-Feb-2021 02:23 | 248_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 22 | 1 | 03-Feb-2021 02:25 | 249_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 23 | 1 | 03-Feb-2021 02:45 | 259_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 23 | 1 | 03-Feb-2021 02:47 | 260_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV2 | 1 | 03-Feb-2021 02:51 | 262LCV2.d | AS BA BE CD CO CR MO PB SB SE |
| LLICV5 | 1 | 03-Feb-2021 02:53 | 263LCV5.d | AS BA BE CD CO CR MO PB SB SE |
| ICSA | 1 | 03-Feb-2021 02:55 | 264ICSA.d | AS BA BE CD CO CR MO PB SB SE |
| ICSAB | 1 | 03-Feb-2021 02:57 | 265ICSB.d | AS BA BE CD CO CR MO PB SB SE |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989
Start Date: 03-Feb-2021

End Date: 04-Feb-2021

Run ID: ICPMS05_377445
Instrument: ICPMS05
Method: SW6020

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|-------------------------------------|
| LLICV5 | 1 | 03-Feb-2021 13:39 | 020LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICB | 1 | 03-Feb-2021 13:41 | 021_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV2 | 1 | 03-Feb-2021 13:44 | 022LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICV | 1 | 03-Feb-2021 13:51 | 024_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 03-Feb-2021 14:01 | 026ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 03-Feb-2021 14:03 | 027ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 1 | 1 | 03-Feb-2021 14:18 | 029_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 1 | 1 | 03-Feb-2021 14:31 | 032_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 2 | 1 | 03-Feb-2021 15:10 | 047_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 2 | 1 | 03-Feb-2021 15:13 | 048_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 3 | 1 | 03-Feb-2021 15:23 | 053_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 3 | 1 | 03-Feb-2021 15:35 | 055_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 4 | 1 | 03-Feb-2021 16:01 | 067_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 03-Feb-2021 16:03 | 068LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 4 | 1 | 03-Feb-2021 16:05 | 069_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 03-Feb-2021 16:07 | 070LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 03-Feb-2021 16:27 | 072LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 5 | 1 | 03-Feb-2021 16:29 | 073_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MBLK-162161 | 1 | 03-Feb-2021 16:38 | 075SMPL.d | LI TL |
| LCS-162161 | 1 | 03-Feb-2021 16:40 | 076SMPL.d | LI TL |
| DUP-01 | 1 | 03-Feb-2021 16:44 | 077SMPL.d | LI TL |
| FB-01 | 1 | 03-Feb-2021 16:46 | 078SMPL.d | LI TL |
| CCV 6 | 1 | 03-Feb-2021 16:49 | 079_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 5 | 1 | 03-Feb-2021 16:51 | 080_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02 | 1 | 03-Feb-2021 16:58 | 082SMPL.d | LI TL |
| MW-02SD | 5 | 03-Feb-2021 17:00 | 083SMPL.d | LI TL |
| MW-02MS | 1 | 03-Feb-2021 17:02 | 084SMPL.d | LI TL |
| MW-02MSD | 1 | 03-Feb-2021 17:04 | 085SMPL.d | LI TL |
| MW-02PDS | 1 | 03-Feb-2021 17:06 | 086SMPL.d | LI TL |
| MBLK-162160 | 1 | 03-Feb-2021 17:11 | 088SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LCS-162160 | 1 | 03-Feb-2021 17:13 | 089SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 7 | 1 | 03-Feb-2021 17:15 | 090_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 6 | 1 | 03-Feb-2021 17:17 | 091_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZSD | 5 | 03-Feb-2021 17:32 | 094SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZMSD | 1 | 03-Feb-2021 17:36 | 096SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZPDS | 1 | 03-Feb-2021 17:41 | 098SMPL.d | BA CD LI MO SB |
| CCV 8 | 1 | 03-Feb-2021 17:46 | 100_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 7 | 1 | 03-Feb-2021 17:48 | 101_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZMS | 1 | 03-Feb-2021 18:06 | 108SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 9 | 1 | 03-Feb-2021 18:10 | 110_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 8 | 1 | 03-Feb-2021 18:12 | 111_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-01 | 1 | 03-Feb-2021 18:26 | 118SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-17 | 1 | 03-Feb-2021 18:28 | 119SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-19 | 1 | 03-Feb-2021 18:30 | 120SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZPDS | 1 | 03-Feb-2021 18:33 | 121SMPL.d | AS BE CO CR PB SE TL |
| CCV 10 | 1 | 03-Feb-2021 18:35 | 122_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 9 | 1 | 03-Feb-2021 18:37 | 123_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-20 | 1 | 03-Feb-2021 18:40 | 124SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-21 | 1 | 03-Feb-2021 18:42 | 125SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-22 | 1 | 03-Feb-2021 18:44 | 126SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-27R | 1 | 03-Feb-2021 18:46 | 127SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 WorkOrder: HS21010989
 Start Date: 03-Feb-2021

End Date: 04-Feb-2021

Run ID:ICPMS05_377445
 Instrument:ICPMS05
 Method:SW6020

| Sample No. | D/F | Time | FileID | Analytes |
|------------|-----|-------------------|-----------|-------------------------------------|
| MW-28 | 1 | 03-Feb-2021 18:48 | 128SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| ZZZZZSD | 50 | 03-Feb-2021 18:52 | 130SMPL.d | |
| ZZZZZPDS | 10 | 03-Feb-2021 18:54 | 131SMPL.d | |
| CCB 10 | 1 | 03-Feb-2021 18:57 | 133_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 11 | 1 | 03-Feb-2021 19:00 | 134_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 12 | 1 | 03-Feb-2021 19:05 | 136_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 11 | 1 | 03-Feb-2021 19:07 | 137_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-28 | 10 | 03-Feb-2021 19:13 | 140SMPL.d | LI |
| CCV 13 | 1 | 03-Feb-2021 19:21 | 142_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 12 | 1 | 03-Feb-2021 19:23 | 143_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 14 | 1 | 03-Feb-2021 19:52 | 153_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 13 | 1 | 03-Feb-2021 19:54 | 154_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 15 | 1 | 03-Feb-2021 20:15 | 165_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 14 | 1 | 03-Feb-2021 20:17 | 166_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 16 | 1 | 03-Feb-2021 22:27 | 171_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 15 | 1 | 03-Feb-2021 22:28 | 172_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 16 | 1 | 03-Feb-2021 22:44 | 180_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 17 | 1 | 03-Feb-2021 22:53 | 182_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 18 | 1 | 03-Feb-2021 23:12 | 192_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 17 | 1 | 03-Feb-2021 23:14 | 193_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 19 | 1 | 03-Feb-2021 23:32 | 202_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 18 | 1 | 03-Feb-2021 23:34 | 203_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 20 | 1 | 03-Feb-2021 23:46 | 209_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 19 | 1 | 03-Feb-2021 23:48 | 210_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 21 | 1 | 04-Feb-2021 00:10 | 221_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 20 | 1 | 04-Feb-2021 00:12 | 222_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 22 | 1 | 04-Feb-2021 00:55 | 241_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 04-Feb-2021 00:57 | 242LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 04-Feb-2021 00:59 | 243LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 21 | 1 | 04-Feb-2021 01:01 | 244_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 23 | 1 | 04-Feb-2021 01:17 | 252_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 22 | 1 | 04-Feb-2021 01:19 | 253_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 24 | 1 | 04-Feb-2021 01:41 | 264_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 23 | 1 | 04-Feb-2021 01:43 | 265_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 25 | 1 | 04-Feb-2021 02:05 | 276_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 24 | 1 | 04-Feb-2021 02:07 | 277_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 26 | 1 | 04-Feb-2021 02:11 | 279_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 25 | 1 | 04-Feb-2021 02:13 | 280_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV2 | 1 | 04-Feb-2021 02:17 | 282LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV5 | 1 | 04-Feb-2021 02:19 | 283LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 04-Feb-2021 02:21 | 284ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 04-Feb-2021 02:23 | 285ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

Run ID:ICPMS05_377344
Instrument:ICPMS05
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 1 | 02-Feb-2021 14:04 | 5940348 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.885 | 0.6 | 5 |
| CCB 3 | 02-Feb-2021 15:17 | 5940356 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.654 | 0.6 | 5 |
| CCB 4 | 02-Feb-2021 15:42 | 5940368 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.672 | 0.6 | 5 |
| | Selenium | 1.186 | 1.1 | 2 |
| CCB 5 | 02-Feb-2021 16:06 | 5940531 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.847 | 0.6 | 5 |
| CCB 6 | 02-Feb-2021 16:35 | 5940541 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 1.718 | 0.6 | 5 |
| CCB 7 | 02-Feb-2021 17:15 | 5940972 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.909 | 0.6 | 5 |
| CCB 8 | 02-Feb-2021 17:57 | 5940982 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.892 | 0.6 | 5 |
| CCB 9 | 02-Feb-2021 18:26 | 5940986 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.921 | 0.6 | 5 |
| CCB 10 | 02-Feb-2021 18:50 | 5941613 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.426 | 0.4 | 2 |
| | Molybdenum | 0.971 | 0.6 | 5 |
| CCB 11 | 02-Feb-2021 19:15 | 5941625 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.89 | 0.6 | 5 |
| CCB 12 | 02-Feb-2021 19:31 | 5941633 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.807 | 0.6 | 5 |
| CCB 13 | 02-Feb-2021 23:29 | 5941176 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.818 | 0.6 | 5 |
| CCB 14 | 02-Feb-2021 23:47 | 5941219 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 1.28 | 0.6 | 5 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

Run ID:ICPMS05_377344
Instrument:ICPMS05
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|----------------|-------------------|---------------|------------|---------------------|
| CCB 15 | 02-Feb-2021 23:59 | 5941225 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 0.892 | 0.6 |
| | | | | 5 |
| CCB 16 | 03-Feb-2021 00:13 | 5941185 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 1.221 | 0.6 |
| | | Selenium | 1.145 | 1.1 |
| | | | | 2 |
| CCB 17 | 03-Feb-2021 00:35 | 5941196 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Beryllium | 0.305 | 0.2 |
| | | Cadmium | 0.272 | 0.2 |
| | | Molybdenum | 1.949 | 0.6 |
| | | | | 5 |
| CCB 18 | 03-Feb-2021 00:59 | 5941204 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 0.725 | 0.6 |
| | | | | 5 |
| CCB 19 | 03-Feb-2021 01:15 | 5941212 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 0.717 | 0.6 |
| | | | | 5 |
| CCB 21 | 03-Feb-2021 02:07 | 5941358 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Antimony | 0.702 | 0.4 |
| | | Molybdenum | 1.157 | 0.6 |
| | | | | 5 |
| CCB 22 | 03-Feb-2021 02:25 | 5941367 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 0.892 | 0.6 |
| | | | | 5 |
| CCB 23 | 03-Feb-2021 02:47 | 5941378 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Molybdenum | 0.865 | 0.6 |
| | | | | 5 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

Run ID:ICPMS05_377445
Instrument:ICPMS05
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 2 | 03-Feb-2021 15:13 | 5942573 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Molybdenum | 0.608 | 0.6 | 5 |
| | Thallium | 2.606 | 0.2 | 2 |
| CCB 3 | 03-Feb-2021 15:23 | 5942577 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.797 | 0.4 | 2 |
| | Arsenic | 0.442 | 0.4 | 2 |
| | Chromium | 0.431 | 0.4 | 4 |
| | Molybdenum | 0.683 | 0.6 | 5 |
| | Selenium | 3.683 | 1.1 | 2 |
| | Thallium | 2.575 | 0.2 | 2 |
| ICCB 4 | 03-Feb-2021 16:05 | 5942628 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.234 | 0.2 | 2 |
| CCB 5 | 03-Feb-2021 16:51 | 5942639 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.165 | 0.4 | 2 |
| | Molybdenum | 0.931 | 0.6 | 5 |
| | Thallium | 0.239 | 0.2 | 2 |
| CCB 6 | 03-Feb-2021 17:17 | 5942650 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.182 | 0.4 | 2 |
| | Molybdenum | 1.088 | 0.6 | 5 |
| | Thallium | 0.308 | 0.2 | 2 |
| CCB 7 | 03-Feb-2021 17:48 | 5942660 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.416 | 0.4 | 2 |
| | Molybdenum | 1.012 | 0.6 | 5 |
| | Thallium | 0.32 | 0.2 | 2 |
| CCB 8 | 03-Feb-2021 18:12 | 5942669 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.94 | 0.4 | 2 |
| | Molybdenum | 0.841 | 0.6 | 5 |
| | Thallium | 0.296 | 0.2 | 2 |
| CCB 9 | 03-Feb-2021 18:37 | 5942755 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.395 | 0.4 | 2 |
| | Molybdenum | 1.014 | 0.6 | 5 |
| | Thallium | 0.335 | 0.2 | 2 |
| CCB 10 | 03-Feb-2021 18:57 | 5942765 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.299 | 0.4 | 2 |
| | Molybdenum | 0.993 | 0.6 | 5 |
| | Thallium | 0.424 | 0.2 | 2 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

Run ID:ICPMS05_377445
Instrument:ICPMS05
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 11 | 03-Feb-2021 19:07 | 5942769 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.978 | 0.4 | 2 |
| | Molybdenum | 0.91 | 0.6 | 5 |
| | Selenium | 1.484 | 1.1 | 2 |
| | Thallium | 0.422 | 0.2 | 2 |
| CCB 12 | 03-Feb-2021 19:23 | 5942775 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.799 | 0.4 | 2 |
| | Molybdenum | 0.869 | 0.6 | 5 |
| | Thallium | 0.526 | 0.2 | 2 |
| CCB 13 | 03-Feb-2021 19:54 | 5942786 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 1.016 | 0.4 | 2 |
| | Molybdenum | 1.02 | 0.6 | 5 |
| | Thallium | 0.601 | 0.2 | 2 |
| CCB 14 | 03-Feb-2021 20:17 | 5942798 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.963 | 0.4 | 2 |
| | Molybdenum | 1.042 | 0.6 | 5 |
| | Selenium | 1.244 | 1.1 | 2 |
| | Thallium | 0.609 | 0.2 | 2 |
| CCB 15 | 03-Feb-2021 22:28 | 5942803 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.61 | 0.4 | 2 |
| | Molybdenum | 0.929 | 0.6 | 5 |
| | Selenium | 1.128 | 1.1 | 2 |
| | Thallium | 0.8 | 0.2 | 2 |
| CCB 16 | 03-Feb-2021 22:44 | 5942811 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.521 | 0.4 | 2 |
| | Molybdenum | 0.849 | 0.6 | 5 |
| | Thallium | 0.753 | 0.2 | 2 |
| CCB 17 | 03-Feb-2021 23:14 | 5942824 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.444 | 0.4 | 2 |
| | Molybdenum | 0.796 | 0.6 | 5 |
| | Selenium | 1.129 | 1.1 | 2 |
| | Thallium | 0.608 | 0.2 | 2 |
| CCB 18 | 03-Feb-2021 23:34 | 5942834 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.473 | 0.4 | 2 |
| | Molybdenum | 0.99 | 0.6 | 5 |
| | Thallium | 0.769 | 0.2 | 2 |
| CCB 19 | 03-Feb-2021 23:48 | 5942841 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

Run ID:ICPMS05_377445
Instrument:ICPMS05
Method:SW6020

| | | | |
|------------|-------|-----|---|
| Antimony | 0.527 | 0.4 | 2 |
| Molybdenum | 1.283 | 0.6 | 5 |
| Selenium | 1.281 | 1.1 | 2 |
| Thallium | 0.835 | 0.2 | 2 |

| | | | | |
|----------------|-------------------------|--------------|---------------------|-------------|
| CCB 20 | Date: 04-Feb-2021 00:12 | Seq: 5942851 | D/F: 1 | Units: ug/L |
| Analyte | Result | MDL | Report Limit | |
| Molybdenum | 0.895 | 0.6 | 5 | |
| Selenium | 1.128 | 1.1 | 2 | |
| Thallium | 0.866 | 0.2 | 2 | |

| | | | | |
|----------------|-------------------------|--------------|---------------------|-------------|
| CCB 22 | Date: 04-Feb-2021 01:19 | Seq: 5943191 | D/F: 1 | Units: ug/L |
| Analyte | Result | MDL | Report Limit | |
| Antimony | 0.762 | 0.4 | 2 | |
| Molybdenum | 0.957 | 0.6 | 5 | |
| Thallium | 0.981 | 0.2 | 2 | |

| | | | | |
|----------------|-------------------------|--------------|---------------------|-------------|
| CCB 23 | Date: 04-Feb-2021 01:43 | Seq: 5943203 | D/F: 1 | Units: ug/L |
| Analyte | Result | MDL | Report Limit | |
| Molybdenum | 0.647 | 0.6 | 5 | |
| Thallium | 0.922 | 0.2 | 2 | |

| | | | | |
|----------------|-------------------------|--------------|---------------------|-------------|
| CCB 24 | Date: 04-Feb-2021 02:07 | Seq: 5943215 | D/F: 1 | Units: ug/L |
| Analyte | Result | MDL | Report Limit | |
| Molybdenum | 0.671 | 0.6 | 5 | |
| Thallium | 0.878 | 0.2 | 2 | |

| | | | | |
|----------------|-------------------------|--------------|---------------------|-------------|
| CCB 25 | Date: 04-Feb-2021 02:13 | Seq: 5943218 | D/F: 1 | Units: ug/L |
| Analyte | Result | MDL | Report Limit | |
| Molybdenum | 0.758 | 0.6 | 5 | |
| Thallium | 0.965 | 0.2 | 2 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
Work Order: HS21010989

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21010989-01 | MW-01 | Groundwater | | 25-Jan-2021 11:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-02 | MW-02 | Groundwater | | 25-Jan-2021 09:40 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-03 | MW-17 | Groundwater | | 25-Jan-2021 11:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-04 | MW-19 | Groundwater | | 25-Jan-2021 09:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-05 | MW-20 | Groundwater | | 25-Jan-2021 11:05 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-06 | MW-21 | Groundwater | | 25-Jan-2021 10:10 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-07 | MW-22 | Groundwater | | 25-Jan-2021 09:25 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-08 | MW-27R | Groundwater | | 25-Jan-2021 09:55 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-09 | MW-28 | Groundwater | | 25-Jan-2021 10:40 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-10 | DUP-01 | Groundwater | | 25-Jan-2021 11:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |
| HS21010989-11 | FB-01 | Groundwater | | 25-Jan-2021 10:00 | 26-Jan-2021 11:20 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-01
 Collection Date: 25-Jan-2021 11:25

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MLL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Barium | 0.822 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:26 |
| Beryllium | 0.000203 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Chromium | 0.00267 | J | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:26 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:26 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Lithium | 0.0453 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:26 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:26 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:26 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:24 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-02
 Collection Date: 25-Jan-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-02
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|------------------|----------------------|------------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Barium | 0.0861 | | 0.00190 | 0.00400 | mg/L | 1 | 02-Feb-2021 23:55 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 02-Feb-2021 23:55 |
| Cobalt | 0.00170 | J | 0.000200 | 0.00500 | mg/L | 1 | 02-Feb-2021 23:55 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Lithium | 0.0724 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 14:58 |
| Molybdenum | 0.00114 | J | 0.000600 | 0.00500 | mg/L | 1 | 02-Feb-2021 23:55 |
| Selenium | 0.00481 | | 0.00110 | 0.00200 | mg/L | 1 | 02-Feb-2021 23:55 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 14:58 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | 0.0000550 | J | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:12 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-17
 Collection Date: 25-Jan-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-03
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Arsenic | 0.000790 | J | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Barium | 0.0182 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:28 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:28 |
| Cobalt | 0.000326 | J | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:28 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Lithium | 0.0121 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:28 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:28 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:28 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:26 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-19
 Collection Date: 25-Jan-2021 09:25

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-04
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Arsenic | 0.000915 | J | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Barium | 0.105 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:30 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:30 |
| Cobalt | 0.000484 | J | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:30 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Lithium | 0.0122 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:30 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:30 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:30 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:44 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-20
 Collection Date: 25-Jan-2021 11:05

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-05
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Arsenic | 0.000790 | J | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Barium | 0.0936 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:40 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Chromium | 0.000709 | J | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:40 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:40 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Lithium | 0.0117 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:40 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:40 |
| Selenium | 0.00408 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:40 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:45 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-21
 Collection Date: 25-Jan-2021 10:10

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-06
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Arsenic | 0.000630 | J | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Barium | 0.0768 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:42 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Cadmium | 0.000741 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Chromium | 0.000671 | J | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:42 |
| Cobalt | 0.000531 | J | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:42 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Lithium | 0.0250 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:42 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:42 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:42 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-22
 Collection Date: 25-Jan-2021 09:25

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-07
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Barium | 0.114 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:44 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Cadmium | 0.000331 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Chromium | 0.00153 | J | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:44 |
| Cobalt | 0.000204 | J | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:44 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Lithium | 0.0148 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:44 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:44 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:44 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:49 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-27R
 Collection Date: 25-Jan-2021 09:55

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-08
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Arsenic | 0.00346 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Barium | 0.0741 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:46 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:46 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:46 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Lithium | 0.174 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:46 |
| Molybdenum | 0.00196 | J | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:46 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:46 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:50 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-28
 Collection Date: 25-Jan-2021 10:40

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-09
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Arsenic | 0.00398 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Barium | 0.0712 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:48 |
| Beryllium | 0.000518 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Cadmium | 0.00552 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Chromium | 0.0121 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 16:48 |
| Cobalt | 0.266 | | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:48 |
| Lead | 0.00108 | J | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Lithium | 0.953 | | 0.0100 | 0.0500 | mg/L | 10 | 03-Feb-2021 17:13 |
| Molybdenum | 0.00101 | J | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 16:48 |
| Selenium | 0.00409 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| Thallium | 0.000398 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 16:48 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:52 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: DUP-01
 Collection Date: 25-Jan-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-10
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Arsenic | 0.000935 | J | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Barium | 0.101 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 00:09 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 00:09 |
| Cobalt | 0.000512 | J | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 00:09 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Lithium | 0.0126 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 14:44 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 00:09 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:09 |
| Thallium | 0.00120 | J | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 14:44 |
| MERCURY BY SW7470A | | Method:SW7470 | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:54 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: FB-01
 Collection Date: 25-Jan-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21010989
 Lab ID:HS21010989-11
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|-----------|----------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | | Prep:SW3010A / 02-Feb-2021 | | Analyst: JHD |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Barium | < 0.00190 | | 0.00190 | 0.00400 | mg/L | 1 | 03-Feb-2021 00:11 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 03-Feb-2021 00:11 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 03-Feb-2021 00:11 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Lithium | < 0.00100 | | 0.00100 | 0.00500 | mg/L | 1 | 03-Feb-2021 14:46 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 03-Feb-2021 00:11 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 03-Feb-2021 00:11 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 03-Feb-2021 14:46 |
| MERCURY BY SW7470A | | Method:SW7470 | | | Prep:SW7470 / 27-Jan-2021 | | Analyst: JBA |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 29-Jan-2021 10:55 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 02-Feb-2021 15:33 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | | Analyst: SUB |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 26-Feb-2021 16:19 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

| | | |
|---|--------------------------------------|------------------------------------|
| Batch ID: 161956 | Start Date: 27 Jan 2021 14:00 | End Date: 27 Jan 2021 16:00 |
| Method: MERCURY PREP BY 7470A- WATER | Prep Code: HG_WPR | |

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21010989-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

| | | |
|--------------------------------|--------------------------------------|------------------------------------|
| Batch ID: 162160 | Start Date: 02 Feb 2021 17:00 | End Date: 02 Feb 2021 21:00 |
| Method: WATER - SW3010A | Prep Code: 3010A | |

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21010989-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

| | | |
|--------------------------------|--------------------------------------|------------------------------------|
| Batch ID: 162161 | Start Date: 02 Feb 2021 17:00 | End Date: 02 Feb 2021 21:00 |
| Method: WATER - SW3010A | Prep Code: 3010A | |

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21010989-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21010989-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|-------------------------------|----------------|---|---------------|-------------------|----------------------------|----|
| Batch ID: 161956 (0) | | Test Name : MERCURY BY SW7470A | | | Matrix: Groundwater | |
| HS21010989-01 | MW-01 | 25 Jan 2021 11:25 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:24 | 1 |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:12 | 1 |
| HS21010989-03 | MW-17 | 25 Jan 2021 11:00 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:26 | 1 |
| HS21010989-04 | MW-19 | 25 Jan 2021 09:25 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:44 | 1 |
| HS21010989-05 | MW-20 | 25 Jan 2021 11:05 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:45 | 1 |
| HS21010989-06 | MW-21 | 25 Jan 2021 10:10 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:47 | 1 |
| HS21010989-07 | MW-22 | 25 Jan 2021 09:25 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:49 | 1 |
| HS21010989-08 | MW-27R | 25 Jan 2021 09:55 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:50 | 1 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:52 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:54 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | 27 Jan 2021 12:00 | 29 Jan 2021 10:55 | 1 |
| Batch ID: 162160 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21010989-01 | MW-01 | 25 Jan 2021 11:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:26 | 1 |
| HS21010989-03 | MW-17 | 25 Jan 2021 11:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:28 | 1 |
| HS21010989-04 | MW-19 | 25 Jan 2021 09:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:30 | 1 |
| HS21010989-05 | MW-20 | 25 Jan 2021 11:05 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:40 | 1 |
| HS21010989-06 | MW-21 | 25 Jan 2021 10:10 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:42 | 1 |
| HS21010989-07 | MW-22 | 25 Jan 2021 09:25 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:44 | 1 |
| HS21010989-08 | MW-27R | 25 Jan 2021 09:55 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:46 | 1 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 17:13 | 10 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 16:48 | 1 |
| Batch ID: 162161 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | 02 Feb 2021 19:00 | 03 Feb 2021 14:58 | 1 |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | 02 Feb 2021 19:00 | 02 Feb 2021 23:55 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 14:44 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 00:09 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 14:46 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | 02 Feb 2021 19:00 | 03 Feb 2021 00:11 | 1 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-----------|----------------------------|----|
| Batch ID: R377355 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21010989-01 | MW-01 | 25 Jan 2021 11:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-03 | MW-17 | 25 Jan 2021 11:00 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-04 | MW-19 | 25 Jan 2021 09:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-05 | MW-20 | 25 Jan 2021 11:05 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-06 | MW-21 | 25 Jan 2021 10:10 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-07 | MW-22 | 25 Jan 2021 09:25 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-08 | MW-27R | 25 Jan 2021 09:55 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | | 02 Feb 2021 15:33 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | | 02 Feb 2021 15:33 | 1 |
| Batch ID: R378685 (0) | | Test Name : SUBCONTRACT ANALYSIS - RADIUM 226 | | | Matrix: Groundwater | |
| HS21010989-01 | MW-01 | 25 Jan 2021 11:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-01 | MW-01 | 25 Jan 2021 11:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-02 | MW-02 | 25 Jan 2021 09:40 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-03 | MW-17 | 25 Jan 2021 11:00 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-03 | MW-17 | 25 Jan 2021 11:00 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-04 | MW-19 | 25 Jan 2021 09:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-04 | MW-19 | 25 Jan 2021 09:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-05 | MW-20 | 25 Jan 2021 11:05 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-05 | MW-20 | 25 Jan 2021 11:05 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-06 | MW-21 | 25 Jan 2021 10:10 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-06 | MW-21 | 25 Jan 2021 10:10 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-07 | MW-22 | 25 Jan 2021 09:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-07 | MW-22 | 25 Jan 2021 09:25 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-08 | MW-27R | 25 Jan 2021 09:55 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-08 | MW-27R | 25 Jan 2021 09:55 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-09 | MW-28 | 25 Jan 2021 10:40 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-10 | DUP-01 | 25 Jan 2021 11:00 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | | 26 Feb 2021 16:19 | 1 |
| HS21010989-11 | FB-01 | 25 Jan 2021 10:00 | | | 26 Feb 2021 16:19 | 1 |

WorkOrder: HS21010989
 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: HS21010989
 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 Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| | | |
|-------------------------------|-------------------------|-----------------------------------|
| Batch ID: 161956 (0) | Instrument: HG03 | Method: MERCURY BY SW7470A |
|-------------------------------|-------------------------|-----------------------------------|

| | | | | | | | | | | |
|-------------|-------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MBLK | Sample ID: MBLK-161956 | Units: mg/L | Analysis Date: 29-Jan-2021 10:05 | | | | | | | |
| Client ID: | Run ID: HG03_377138 | SeqNo: 5935718 | PrepDate: 27-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-161956 | Units: mg/L | Analysis Date: 29-Jan-2021 10:10 | | | | | | | |
| Client ID: | Run ID: HG03_377138 | SeqNo: 5935719 | PrepDate: 27-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 0.0045 0.000200 0.005 0 90.0 80 - 120

| | | | | | | | | | | |
|-------------------------|-----------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MS | Sample ID: HS21010989-02MS | Units: mg/L | Analysis Date: 29-Jan-2021 10:15 | | | | | | | |
| Client ID: MW-02 | Run ID: HG03_377138 | SeqNo: 5935721 | PrepDate: 27-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 0.00514 0.000200 0.005 0.000055 102 75 - 125

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MSD | Sample ID: HS21010989-02MSD | Units: mg/L | Analysis Date: 29-Jan-2021 10:17 | | | | | | | |
| Client ID: MW-02 | Run ID: HG03_377138 | SeqNo: 5935722 | PrepDate: 27-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 0.0059 0.000200 0.005 0.000055 117 75 - 125 0.00514 13.8 20

| | | | | |
|---|---------------|---------------|---------------|---------------|
| The following samples were analyzed in this batch: | HS21010989-01 | HS21010989-02 | HS21010989-03 | HS21010989-04 |
| | HS21010989-05 | HS21010989-06 | HS21010989-07 | HS21010989-08 |
| | HS21010989-09 | HS21010989-10 | HS21010989-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

Batch ID: 162160 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

| MBLK | | Sample ID: MBLK-162160 | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:11 | | | |
|-------------|------------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942647 | | PrepDate: 02-Feb-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-162160 | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:13 | | | |
|------------|---------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942648 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Antimony | 0.05096 | 0.00200 | 0.05 | 0 | 102 | 80 - 120 | | | |
| Arsenic | 0.05353 | 0.00200 | 0.05 | 0 | 107 | 80 - 120 | | | |
| Barium | 0.05182 | 0.00400 | 0.05 | 0 | 104 | 80 - 120 | | | |
| Beryllium | 0.05237 | 0.00200 | 0.05 | 0 | 105 | 80 - 120 | | | |
| Cadmium | 0.05348 | 0.00200 | 0.05 | 0 | 107 | 80 - 120 | | | |
| Chromium | 0.0498 | 0.00400 | 0.05 | 0 | 99.6 | 80 - 120 | | | |
| Cobalt | 0.05176 | 0.00500 | 0.05 | 0 | 104 | 80 - 120 | | | |
| Lead | 0.04795 | 0.00200 | 0.05 | 0 | 95.9 | 80 - 120 | | | |
| Lithium | 0.1036 | 0.00500 | 0.1 | 0 | 104 | 80 - 120 | | | |
| Molybdenum | 0.04938 | 0.00500 | 0.05 | 0 | 98.8 | 80 - 120 | | | |
| Selenium | 0.05478 | 0.00200 | 0.05 | 0 | 110 | 80 - 120 | | | |
| Thallium | 0.04322 | 0.00200 | 0.05 | 0 | 86.4 | 80 - 120 | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| Batch ID: 162160 (0) | | Instrument: ICPMS05 | | | Method: ICP-MS METALS BY SW6020A | | | | | |
|------------------------|-----------------------------------|-----------------------|---------|------------------------------|---|---------------|---------------|------|-----------|------|
| MS | Sample ID: HS21010988-02MS | Units: mg/L | | | Analysis Date: 03-Feb-2021 16:06 | | | | | |
| Client ID: | Run ID: ICPMS05_377445 | SeqNo: 5942666 | | PrepDate: 02-Feb-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.05237 | 0.00200 | 0.05 | 0.000173 | 104 | 80 - 120 | | | | |
| Arsenic | 0.05627 | 0.00200 | 0.05 | 0.000422 | 112 | 80 - 120 | | | | |
| Barium | 0.1491 | 0.00400 | 0.05 | 0.09842 | 101 | 80 - 120 | | | | |
| Beryllium | 0.05636 | 0.00200 | 0.05 | 0.000032 | 113 | 80 - 120 | | | | |
| Cadmium | 0.05346 | 0.00200 | 0.05 | 0.00014 | 107 | 80 - 120 | | | | |
| Chromium | 0.05073 | 0.00400 | 0.05 | 0.000017 | 101 | 80 - 120 | | | | |
| Cobalt | 0.05204 | 0.00500 | 0.05 | 0.001886 | 100 | 80 - 120 | | | | |
| Lead | 0.05016 | 0.00200 | 0.05 | 0.000044 | 100 | 80 - 120 | | | | |
| Lithium | 0.178 | 0.00500 | 0.1 | 0.07053 | 107 | 80 - 120 | | | | |
| Molybdenum | 0.05286 | 0.00500 | 0.05 | 0.00021 | 105 | 80 - 120 | | | | |
| Selenium | 0.06329 | 0.00200 | 0.05 | 0.005013 | 117 | 80 - 120 | | | | |
| Thallium | 0.03788 | 0.00200 | 0.05 | 0.000019 | 75.7 | 80 - 120 | | | | S |

| MSD | Sample ID: HS21010988-02MSD | Units: mg/L | | | Analysis Date: 03-Feb-2021 15:36 | | | | | |
|------------|------------------------------------|-----------------------|---------|------------------------------|---|---------------|---------------|-------|-----------|------|
| Client ID: | Run ID: ICPMS05_377445 | SeqNo: 5942655 | | PrepDate: 02-Feb-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.05257 | 0.00200 | 0.05 | 0.000173 | 105 | 80 - 120 | 0.05237 | 0.385 | 20 | |
| Arsenic | 0.05494 | 0.00200 | 0.05 | 0.000422 | 109 | 80 - 120 | 0.05627 | 2.38 | 20 | |
| Barium | 0.1526 | 0.00400 | 0.05 | 0.09842 | 108 | 80 - 120 | 0.1491 | 2.31 | 20 | |
| Beryllium | 0.05228 | 0.00200 | 0.05 | 0.000032 | 104 | 80 - 120 | 0.05636 | 7.52 | 20 | |
| Cadmium | 0.05374 | 0.00200 | 0.05 | 0.00014 | 107 | 80 - 120 | 0.05346 | 0.513 | 20 | |
| Chromium | 0.05241 | 0.00400 | 0.05 | 0.000017 | 105 | 80 - 120 | 0.05073 | 3.26 | 20 | |
| Cobalt | 0.05352 | 0.00500 | 0.05 | 0.001886 | 103 | 80 - 120 | 0.05204 | 2.81 | 20 | |
| Lead | 0.05112 | 0.00200 | 0.05 | 0.000044 | 102 | 80 - 120 | 0.05016 | 1.89 | 20 | |
| Lithium | 0.1763 | 0.00500 | 0.1 | 0.07053 | 106 | 80 - 120 | 0.178 | 0.958 | 20 | |
| Molybdenum | 0.05462 | 0.00500 | 0.05 | 0.00021 | 109 | 80 - 120 | 0.05286 | 3.26 | 20 | |
| Selenium | 0.0591 | 0.00200 | 0.05 | 0.005013 | 108 | 80 - 120 | 0.06329 | 6.84 | 20 | |
| Thallium | 0.04253 | 0.00200 | 0.05 | 0.000019 | 85.0 | 80 - 120 | 0.03788 | 11.6 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| Batch ID: 162160 (0) | | Instrument: ICPMS05 | | Method: ICP-MS METALS BY SW6020A | | | | | |
|------------------------|-----------|------------------------------------|---------|----------------------------------|------|---|---------------|--------------|----------------|
| PDS | | Sample ID: HS21010988-02PDS | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:41 | | | |
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942657 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Antimony | 0.1183 | 0.00200 | 0.1 | 0.000173 | 118 | 75 - 125 | | | |
| Barium | 0.2209 | 0.00400 | 0.1 | 0.09842 | 122 | 75 - 125 | | | |
| Cadmium | 0.1251 | 0.00200 | 0.1 | 0.00014 | 125 | 75 - 125 | | | |
| Lithium | 0.1593 | 0.00500 | 0.1 | 0.07053 | 88.8 | 70 - 125 | | | |
| Molybdenum | 0.1248 | 0.00500 | 0.1 | 0.00021 | 125 | 75 - 125 | | | |
| PDS | | Sample ID: HS21010988-02PDS | | Units: mg/L | | Analysis Date: 03-Feb-2021 16:33 | | | |
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942753 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Arsenic | 0.0913 | 0.00200 | 0.1 | 0.000422 | 90.9 | 75 - 125 | | | |
| Beryllium | 0.09788 | 0.00200 | 0.1 | 0 | 97.9 | 75 - 125 | | | |
| Chromium | 0.08022 | 0.00400 | 0.1 | 0 | 80.2 | 75 - 125 | | | |
| Cobalt | 0.08197 | 0.00500 | 0.1 | 0.001886 | 80.1 | 75 - 125 | | | |
| Lead | 0.08195 | 0.00200 | 0.1 | 0 | 82.0 | 75 - 125 | | | |
| Selenium | 0.09844 | 0.00200 | 0.1 | 0.005013 | 93.4 | 75 - 125 | | | |
| Thallium | 0.08792 | 0.00200 | 0.1 | 0 | 87.9 | 75 - 125 | | | |
| SD | | Sample ID: HS21010988-02SD | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:32 | | | |
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942654 | | PrepDate: 02-Feb-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 | | | | | 0.000173 | 0 | 10 |
| Arsenic | < 0.00200 | 0.0100 | | | | | 0.000422 | 0 | 10 |
| Barium | 0.09535 | 0.0200 | | | | | 0.09842 | 3.13 | 10 |
| Beryllium | < 0.00100 | 0.0100 | | | | | 0.000032 | 0 | 10 |
| Cadmium | < 0.00100 | 0.0100 | | | | | 0.00014 | 0 | 10 |
| Chromium | < 0.00200 | 0.0200 | | | | | 0.000017 | 0 | 10 |
| Cobalt | 0.002027 | 0.0250 | | | | | 0.001886 | 0 | 10 J |
| Lead | < 0.00300 | 0.0100 | | | | | 0.000044 | 0 | 10 |
| Lithium | 0.07007 | 0.0250 | | | | | 0.07053 | 0.644 | 10 |
| Molybdenum | < 0.00300 | 0.0250 | | | | | 0.00021 | 0 | 10 |
| Selenium | 0.007729 | 0.0100 | | | | | 0.005013 | 0 | 10 J |
| Thallium | < 0.00100 | 0.0100 | | | | | 0.000019 | 0 | 10 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| | | | | |
|-------------------------------|----------------------------|---|--|--|
| Batch ID: 162160 (0) | Instrument: ICPMS05 | Method: ICP-MS METALS BY SW6020A | | |
|-------------------------------|----------------------------|---|--|--|

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21010989-01 | HS21010989-03 | HS21010989-04 | HS21010989-05 |
| HS21010989-06 | HS21010989-07 | HS21010989-08 | HS21010989-09 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

Batch ID: 162161 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

| MBLK | | Sample ID: MBLK-162161 | | Units: mg/L | | Analysis Date: 02-Feb-2021 23:51 | | | |
|-------------|------------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS05_377344 | | SeqNo: 5941350 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MLQ | 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 | | | | | | | |
| Molybdenum | < 0.000600 | 0.00500 | | | | | | | |
| Selenium | < 0.00110 | 0.00200 | | | | | | | |

| MBLK | | Sample ID: MBLK-162161 | | Units: mg/L | | Analysis Date: 03-Feb-2021 14:38 | | | |
|-------------|------------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS05_377445 | | SeqNo: 5942634 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Lithium | < 0.00100 | 0.00500 | | | | | | | |
| Thallium | < 0.000200 | 0.00200 | | | | | | | |

| LCS | | Sample ID: LCS-162161 | | Units: mg/L | | Analysis Date: 02-Feb-2021 23:53 | | | |
|------------|---------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS05_377344 | | SeqNo: 5941351 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Antimony | 0.04782 | 0.00200 | 0.05 | 0 | 95.6 | 80 - 120 | | | |
| Arsenic | 0.04963 | 0.00200 | 0.05 | 0 | 99.3 | 80 - 120 | | | |
| Barium | 0.04711 | 0.00400 | 0.05 | 0 | 94.2 | 80 - 120 | | | |
| Beryllium | 0.04995 | 0.00200 | 0.05 | 0 | 99.9 | 80 - 120 | | | |
| Cadmium | 0.04956 | 0.00200 | 0.05 | 0 | 99.1 | 80 - 120 | | | |
| Chromium | 0.04757 | 0.00400 | 0.05 | 0 | 95.1 | 80 - 120 | | | |
| Cobalt | 0.04893 | 0.00500 | 0.05 | 0 | 97.9 | 80 - 120 | | | |
| Lead | 0.04635 | 0.00200 | 0.05 | 0 | 92.7 | 80 - 120 | | | |
| Molybdenum | 0.04488 | 0.00500 | 0.05 | 0 | 89.8 | 80 - 120 | | | |
| Selenium | 0.05288 | 0.00200 | 0.05 | 0 | 106 | 80 - 120 | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| Batch ID: 162161 (0) | | Instrument: ICPMS05 | | | Method: ICP-MS METALS BY SW6020A | | | | | |
|-------------------------|---------|-----------------------------------|---------|---------------|----------------------------------|---------------|---|------|--------------|------|
| LCS | | Sample ID: LCS-162161 | | | Units: mg/L | | Analysis Date: 03-Feb-2021 14:40 | | | |
| Client ID: | | Run ID: ICPMS05_377445 | | | SeqNo: 5942635 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lithium | 0.1108 | 0.00500 | 0.1 | 0 | 111 | 80 - 120 | | | | |
| Thallium | 0.0438 | 0.00200 | 0.05 | 0 | 87.6 | 80 - 120 | | | | |
| MS | | Sample ID: HS21010989-02MS | | | Units: mg/L | | Analysis Date: 02-Feb-2021 23:59 | | | |
| Client ID: MW-02 | | Run ID: ICPMS05_377344 | | | SeqNo: 5941354 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.0504 | 0.00200 | 0.05 | 0.000165 | 100 | 80 - 120 | | | | |
| Arsenic | 0.05286 | 0.00200 | 0.05 | 0.000354 | 105 | 80 - 120 | | | | |
| Barium | 0.1407 | 0.00400 | 0.05 | 0.08605 | 109 | 80 - 120 | | | | |
| Beryllium | 0.05415 | 0.00200 | 0.05 | 0.000057 | 108 | 80 - 120 | | | | |
| Cadmium | 0.05046 | 0.00200 | 0.05 | 0.000155 | 101 | 80 - 120 | | | | |
| Chromium | 0.04894 | 0.00400 | 0.05 | 0.000102 | 97.7 | 80 - 120 | | | | |
| Cobalt | 0.05077 | 0.00500 | 0.05 | 0.001698 | 98.1 | 80 - 120 | | | | |
| Lead | 0.04876 | 0.00200 | 0.05 | 0.000169 | 97.2 | 80 - 120 | | | | |
| Molybdenum | 0.04967 | 0.00500 | 0.05 | 0.001137 | 97.1 | 80 - 120 | | | | |
| Selenium | 0.05886 | 0.00200 | 0.05 | 0.004807 | 108 | 80 - 120 | | | | |
| MS | | Sample ID: HS21010989-02MS | | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:02 | | | |
| Client ID: MW-02 | | Run ID: ICPMS05_377445 | | | SeqNo: 5942643 | | PrepDate: 02-Feb-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lithium | 0.1765 | 0.00500 | 0.1 | 0.07241 | 104 | 80 - 120 | | | | |
| Thallium | 0.0387 | 0.00200 | 0.05 | 0.00001 | 77.4 | 80 - 120 | | | | S |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

| Batch ID: 162161 (0) | | Instrument: ICPMS05 | | | Method: ICP-MS METALS BY SW6020A | | | | | |
|-------------------------|------------------------------------|-----------------------|---------|------------------------------|---|---------------|---------------|------|-----------|------|
| MSD | Sample ID: HS21010989-02MSD | Units: mg/L | | | Analysis Date: 03-Feb-2021 00:01 | | | | | |
| Client ID: MW-02 | Run ID: ICPMS05_377344 | SeqNo: 5941355 | | PrepDate: 02-Feb-2021 | | DF: 1 | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.04899 | 0.00200 | 0.05 | 0.000165 | 97.7 | 80 - 120 | 0.0504 | 2.82 | 20 | |
| Arsenic | 0.05092 | 0.00200 | 0.05 | 0.000354 | 101 | 80 - 120 | 0.05286 | 3.74 | 20 | |
| Barium | 0.1356 | 0.00400 | 0.05 | 0.08605 | 99.2 | 80 - 120 | 0.1407 | 3.7 | 20 | |
| Beryllium | 0.05113 | 0.00200 | 0.05 | 0.000057 | 102 | 80 - 120 | 0.05415 | 5.73 | 20 | |
| Cadmium | 0.04841 | 0.00200 | 0.05 | 0.000155 | 96.5 | 80 - 120 | 0.05046 | 4.16 | 20 | |
| Chromium | 0.04706 | 0.00400 | 0.05 | 0.000102 | 93.9 | 80 - 120 | 0.04894 | 3.92 | 20 | |
| Cobalt | 0.049 | 0.00500 | 0.05 | 0.001698 | 94.6 | 80 - 120 | 0.05077 | 3.54 | 20 | |
| Lead | 0.04622 | 0.00200 | 0.05 | 0.000169 | 92.1 | 80 - 120 | 0.04876 | 5.37 | 20 | |
| Molybdenum | 0.04889 | 0.00500 | 0.05 | 0.001137 | 95.5 | 80 - 120 | 0.04967 | 1.59 | 20 | |
| Selenium | 0.05729 | 0.00200 | 0.05 | 0.004807 | 105 | 80 - 120 | 0.05886 | 2.71 | 20 | |
| MSD | Sample ID: HS21010989-02MSD | Units: mg/L | | | Analysis Date: 03-Feb-2021 15:04 | | | | | |
| Client ID: MW-02 | Run ID: ICPMS05_377445 | SeqNo: 5942644 | | PrepDate: 02-Feb-2021 | | DF: 1 | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lithium | 0.1674 | 0.00500 | 0.1 | 0.07241 | 95.0 | 80 - 120 | 0.1765 | 5.29 | 20 | |
| Thallium | 0.03909 | 0.00200 | 0.05 | 0.00001 | 78.2 | 80 - 120 | 0.0387 | 1.01 | 20 | S |
| PDS | Sample ID: HS21010989-02PDS | Units: mg/L | | | Analysis Date: 03-Feb-2021 00:03 | | | | | |
| Client ID: MW-02 | Run ID: ICPMS05_377344 | SeqNo: 5941356 | | PrepDate: 02-Feb-2021 | | DF: 1 | | | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.09234 | 0.00200 | 0.1 | 0.000165 | 92.2 | 75 - 125 | | | | |
| Arsenic | 0.1054 | 0.00200 | 0.1 | 0.000354 | 105 | 75 - 125 | | | | |
| Barium | 0.187 | 0.00400 | 0.1 | 0.08605 | 101 | 75 - 125 | | | | |
| Beryllium | 0.1062 | 0.00200 | 0.1 | 0.000057 | 106 | 75 - 125 | | | | |
| Cadmium | 0.102 | 0.00200 | 0.1 | 0.000155 | 102 | 75 - 125 | | | | |
| Chromium | 0.09749 | 0.00400 | 0.1 | 0.000102 | 97.4 | 75 - 125 | | | | |
| Cobalt | 0.09869 | 0.00500 | 0.1 | 0.001698 | 97.0 | 75 - 125 | | | | |
| Lead | 0.09941 | 0.00200 | 0.1 | 0.000169 | 99.2 | 75 - 125 | | | | |
| Molybdenum | 0.1015 | 0.00500 | 0.1 | 0.001137 | 100 | 75 - 125 | | | | |
| Selenium | 0.1131 | 0.00200 | 0.1 | 0.004807 | 108 | 75 - 125 | | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

QC BATCH REPORT

Batch ID: 162161 (0) **Instrument:** ICPMS05 **Method:** ICP-MS METALS BY SW6020A

| PDS | | Sample ID: HS21010989-02PDS | | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:06 | | | |
|------------|--------------|------------------------------------|---------|-----------------------|------------------------------|---------------|---|------|-----------|------|
| Client ID: | MW-02 | Run ID: ICPMS05_377445 | | SeqNo: 5942645 | PrepDate: 02-Feb-2021 | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lithium | 0.1671 | 0.00500 | 0.1 | 0.07241 | 94.7 | 70 - 125 | | | | |
| Thallium | 0.09711 | 0.00200 | 0.1 | 0.00001 | 97.1 | 75 - 125 | | | | |

| SD | | Sample ID: HS21010989-02SD | | | Units: mg/L | | Analysis Date: 02-Feb-2021 23:57 | | | |
|------------|--------------|-----------------------------------|---------|-----------------------|------------------------------|---------------|---|------|-----------|------|
| Client ID: | MW-02 | Run ID: ICPMS05_377344 | | SeqNo: 5941353 | PrepDate: 02-Feb-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 | | | | | 0.000165 | 0 | 10 | |
| Arsenic | < 0.00200 | 0.0100 | | | | | 0.000354 | 0 | 10 | |
| Barium | 0.08724 | 0.0200 | | | | | 0.08605 | 1.38 | 10 | |
| Beryllium | < 0.00100 | 0.0100 | | | | | 0.000057 | 0 | 10 | |
| Cadmium | < 0.00100 | 0.0100 | | | | | 0.000155 | 0 | 10 | |
| Chromium | < 0.00200 | 0.0200 | | | | | 0.000102 | 0 | 10 | |
| Cobalt | 0.001798 | 0.0250 | | | | | 0.001698 | 0 | 10 | J |
| Lead | < 0.00300 | 0.0100 | | | | | 0.000169 | 0 | 10 | |
| Molybdenum | < 0.00300 | 0.0250 | | | | | 0.001137 | 0 | 10 | |
| Selenium | 0.006111 | 0.0100 | | | | | 0.004807 | 0 | 10 | J |

| SD | | Sample ID: HS21010989-02SD | | | Units: mg/L | | Analysis Date: 03-Feb-2021 15:00 | | | |
|------------|--------------|-----------------------------------|---------|-----------------------|------------------------------|---------------|---|------|-----------|------|
| Client ID: | MW-02 | Run ID: ICPMS05_377445 | | SeqNo: 5942642 | PrepDate: 02-Feb-2021 | DF: 5 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | RPD Limit | Qual |
| Lithium | 0.06773 | 0.0250 | | | | | 0.07241 | 6.46 | 10 | |
| Thallium | < 0.00100 | 0.0100 | | | | | 0.00001 | 0 | 10 | |

The following samples were analyzed in this batch: HS21010989-02 HS21010989-10 HS21010989-11

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21010989

**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 Limestone - Appendix IV
Work Order: HS21010989

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|----------------------|--------|--------------|
| HS21010989-01 | MW-01 | Login | 1/26/2021 5:59:07 PM | PMG | MET065 |
| HS21010989-01 | MW-01 | Login | 1/26/2021 5:59:07 PM | PMG | Sub |
| HS21010989-01 | MW-01 | Login | 1/26/2021 5:59:07 PM | PMG | Sub |
| HS21010989-01 | MW-01 | Login | 1/26/2021 5:59:07 PM | PMG | Sub |

Sample Receipt Checklist

Work Order ID: HS21010989

Date/Time Received: **26-Jan-2021 11:20**

Client Name: TRC-HOU

Received by: **Jared R. Makan**

| | | | |
|---|-------------------|--|-------------------|
| Completed By: <u>/S/ Paresh M. Giga</u> | 26-Jan-2021 19:40 | Reviewed by: <u>/S/ Corey Grandits</u> | 27-Jan-2021 19:01 |
| eSignature | Date/Time | eSignature | Date/Time |

Matrices: **Water**

Carrier name: **FedEx**

- | | | | |
|---|---|-----------------------------|---|
| 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"/> | 2 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:231094/231095 |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 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): | 0.5C; 0.7C; 0.2C U/C | IR31 |
| Cooler(s)/Kit(s): | 46715/46687/46434 | |
| Date/Time sample(s) sent to storage: | 1/26/2021 17:40 | |

- | | | | |
|--|---|--|--|
| 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:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

HS21010989

TRC Corporation
NRG Limestone - Appendix IV

Page 1 of 2

COC ID: **231094**



ALS Project Manager:

| Customer Information | | Project Information | | |
|----------------------|--------------------------------|---------------------|------------------------------------|---|
| Purchase Order | NEED | Project Name | NRG Limestone- 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 77034 | 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-01 | 1.25.21 | 1125 | W | Z, S | | X | X | X | X | | | | | | | |
| 2 | MW-02 | | 940 | | | | ⊗ | ⊗ | ⊗ | ⊗ | | | | | | | |
| 3 | MW-17 | | 1100 | | | | X | X | X | X | | | | | | | |
| 4 | MW-19 | | 925 | | | | X | X | X | X | | | | | | | |
| 5 | MW-20 | | 1105 | | | | X | X | X | X | | | | | | | |
| 6 | MW-21 | | 1010 | | | | X | X | X | X | | | | | | | |
| 7 | MW-22 | | 925 | | | | X | X | X | X | | | | | | | |
| 8 | MW-27R | | 955 | | | | X | X | X | X | | | | | | | |
| 9 | MW-28 | | 1040 | | | | X | X | X | X | | | | | | | |
| 10 | Dup 201 | | 1100 | | | | X | X | X | X | | | | | | | |

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

Shipment Method
FedEx

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

Results Due Date:

Relinquished by: Cameron Haber Date: 1.25.21 Time: 1300
 Received by: Jm Date: 1/26/2021 11:20

Notes: NRG Limestone PRIVILEGED & CONFIDENTIAL

QC Package: (Check One Box Below)
 Level II Std QC TPRP Check ist
 Level III Std QC/Raw Date TPRP Level IV
 Level IV SW843/CLP
 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.



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 231095

HS21010989

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

| Customer Information | | Project Information | | |
|----------------------|--------------------------------|---------------------|------------------------------------|---|
| Purchase Order | NEED | Project Name | NRG Limestone- 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 |

ICP_TW (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl)
 HG_W (Mercury)
 SUB_RA 226 (Sub RA 226 to ALS Fort Collins)
 SUB_RA 228 (Sub RA 228 to ALS Fort Collins)
 Sub_Fluoride (Report from Appendix III COC)

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|--------------------|---------|------|--------|-------|-----------|---|---|---|---|---|---|---|---|---|---|------|
| 1 | FB-01 | 1.25.21 | 1000 | W | 2,8 | | X | X | X | X | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

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

Shipment Method: Fed EX

Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 2d-four

Results Due Date: _____

Relinquished by: Cameron Haber Date: 1.25.21 Time: 1300

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by (Laboratory): [Signature] Date: 1/26/2021 Time: 11:20

Checked by (Laboratory): _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____

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

Notes: NRG Limestone PRIVILEGED & CONFIDENTIAL

Cooler ID: _____ Cooler Temp: _____

QC Package: (Check One Box Below)

Level II Std QC TPRP Check list


Level III Str QC/Raw Date TPRP Level IV

Level IV SW843/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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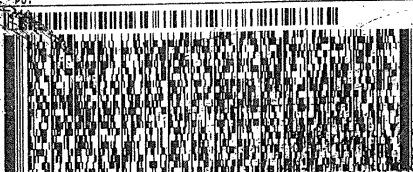
| | | | |
|---|---------------------|----------|-----------------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | CUSTODY SEAL | | Seal Broken By: SM |
| | Date: 1-25-21 | Time: | Date: 01/26/21 |
| 46715 | Name: JIM | Company: | |

46715 JAN 26 2021


| | |
|---|---|
| ORIGIN ID: ACTA (713) 464-5206 SCOTT UDE 1654 W SAM HOUSTON PKWY N HOUSTON, TX 77043 UNITED STATES US | SHIP DATE: 25JAN21 ACTWGT: 63.95 LB CAD: 6993649/SSFE2(21) DIMS: 22x13x13 IN BILL THIRD PARTY |
|---|---|

TO SHIPPING & RECEIVING
 ALS ENVIROMENT HOUSTON LAB
 10450 STANCLIFF RD
 STE 210
 HOUSTON TX 77099

(281) 630-6666 REF: DEPT:




FedEx
Express



1 of 3
 TRK# 8729 9719 1624
 0215
 ## MASTER ##
43 SGRA
 TUE - 26 JAN 10:30A
 PRIORITY OVERNIGHT
 77099
 TX-US IAH



| | | | |
|---|---------------------|----------|-----------------|
|  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: 01/25/21 | Time: | AM |
| | Name: JIM | Company: | Date: 01/26/21 |

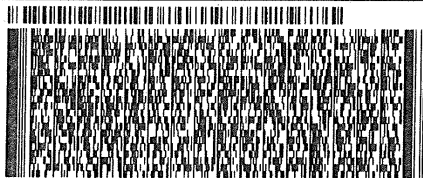
46687 IAH 26 2021

| | |
|---|---|
| ORIGIN ID: ACTA (713) 464-5206 SCOTT UDE 1654 W SAM HOUSTON PKWY N HOUSTON, TX 77043 UNITED STATES US | SHIP. DATE: 25 JAN 21 ACT. WT: 63.95 LB CAD: 6993649/SSFE2121 DIMS: 22x13x13 IN. BILL THIRD PARTY |
|---|---|


TO SHIPPING & RECEIVING
 ALS ENVIROMENT HOUSTON LAB
 10450 STANCLIFF RD
 STE 210
 HOUSTON TX 77099

46687

(281) 530-5656 REF: DEPT:




FedEx
Express



2 of 3 TUE - 26 JAN 10:30A
 MPS# 7829 9635 7718 PRIORITY OVERNIGHT
 Metr# 8729 9719 1624 0215

43 SGRA 77099
 TX-US IAH

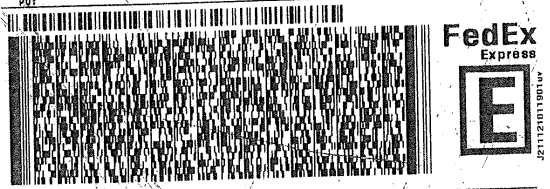


| | | | |
|---|----------------------|----------|---------------------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | CUSTODY SEAL | | Seal Broken By: <i>sm</i> |
| | Date: <i>1-25-21</i> | Time: | Date: <i>01/26/21</i> |
| | Name: <i>JM</i> | Company: | |

46434 JAN 26 2021

ORIGIN ID: ACTA (713) 464-5206
 SCOTT UDE
 1654 W. SAM HOUSTON PKWY N
 HOUSTON, TX 77043
 UNITED STATES US
 SHIP DATE: 25 JAN 21
 ACTWGT: 63.95 LB
 CAD: 6893649/SSFE2121
 DIMS: 22x13x13 IN
 BILL THIRD PARTY

TO **SHIPPING & RECEIVING**
ALS ENVIROMENT HOUSTON LAB
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
 (281) 530-5658 REF: DEPT: *46434*



3 of 3
 MPS# **7829 9635 7729**
 OBB1
 Metr# 8729 9719 1624 0215
43 SGRA
 TUE -- 26 JAN 10:30A
 PRIORITY OVERNIGHT
 77099
 TX-US IAH





28-Feb-2021

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

Re: **HS21010989**

Work Order: **21012014**

Dear Corey,

ALS Environmental received 11 samples on 27-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 25.

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 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 51 of 97

Client: ALS Environmental
Project: HS21010989
Work Order: 21012014

**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_210201A, 02A | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21012013, 21012014 | | | | | |
| Analyst Name: QN | | Date 2/1-2/2/21 | Reviewer Name: RM | | Date: 2/2/21 | | |
| | 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: HS21010989
Work Order: 21012014

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21012014-01 | HS21010989-01 | Groundwater | MW-01 | 1/25/2021 11:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-02 | HS21010989-02 | Groundwater | MW-02 | 1/25/2021 09:40 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-03 | HS21010989-03 | Groundwater | MW-17 | 1/25/2021 11:00 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-04 | HS21010989-04 | Groundwater | MW-19 | 1/25/2021 09:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-05 | HS21010989-05 | Groundwater | MW-20 | 1/25/2021 11:05 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-06 | HS21010989-06 | Groundwater | MW-21 | 1/25/2021 10:10 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-07 | HS21010989-07 | Groundwater | MW-22 | 1/25/2021 09:25 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-08 | HS21010989-08 | Groundwater | MW-27R | 1/25/2021 09:55 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-09 | HS21010989-09 | Groundwater | MW-28 | 1/25/2021 10:40 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-10 | HS21010989-10 | Groundwater | DUP-01 | 1/25/2021 11:00 | 1/27/2021 10:00 | <input type="checkbox"/> |
| 21012014-11 | HS21010989-11 | Groundwater | FB-01 | 1/25/2021 10:00 | 1/27/2021 10:00 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21010989
WorkOrder: 21012014

**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: 21012014
 Client: ALS Environmental
 Project: HS21010989

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|---|------------------|-------------|-----------------------|-----------|-----------|-------------------|
| Batch ID R309043 Test Name: Fluoride | | | | | | |
| 21012014-01A | HS21010989-01 | Groundwater | 1/25/2021 11:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-02A | HS21010989-02 | | 1/25/2021 9:40:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-03A | HS21010989-03 | | 1/25/2021 11:00:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-04A | HS21010989-04 | | 1/25/2021 9:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-05A | HS21010989-05 | | 1/25/2021 11:05:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-06A | HS21010989-06 | | 1/25/2021 10:10:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-07A | HS21010989-07 | | 1/25/2021 9:25:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-08A | HS21010989-08 | | 1/25/2021 9:55:00 AM | | | 2/1/2021 01:40 PM |
| 21012014-09A | HS21010989-09 | | 1/25/2021 10:40:00 AM | | | 2/1/2021 01:40 PM |
| Batch ID R309125 Test Name: Fluoride | | | | | | |
| 21012014-10A | HS21010989-10 | Groundwater | 1/25/2021 11:00:00 AM | | | 2/2/2021 02:29 PM |
| 21012014-11A | HS21010989-11 | | 1/25/2021 10:00:00 AM | | | 2/2/2021 02:29 PM |

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-01
Collection Date: 1/25/2021 11:25 AM

Work Order: 21012014
Lab ID: 21012014-01
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.070 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-02
Collection Date: 1/25/2021 09:40 AM

Work Order: 21012014
Lab ID: 21012014-02
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-03
Collection Date: 1/25/2021 11:00 AM

Work Order: 21012014
Lab ID: 21012014-03
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.15 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-04
Collection Date: 1/25/2021 09:25 AM

Work Order: 21012014
Lab ID: 21012014-04
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-05
Collection Date: 1/25/2021 11:05 AM

Work Order: 21012014
Lab ID: 21012014-05
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.21 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-06
Collection Date: 1/25/2021 10:10 AM

Work Order: 21012014
Lab ID: 21012014-06
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-07
Collection Date: 1/25/2021 09:25 AM

Work Order: 21012014
Lab ID: 21012014-07
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-08
Collection Date: 1/25/2021 09:55 AM

Work Order: 21012014
Lab ID: 21012014-08
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 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-09
Collection Date: 1/25/2021 10:40 AM

Work Order: 21012014
Lab ID: 21012014-09
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.17 | | 0.058 | 0.10 | mg/L | 1 | 2/1/2021 13:40 |

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-10
Collection Date: 1/25/2021 11:00 AM

Work Order: 21012014
Lab ID: 21012014-10
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.090 | J | 0.058 | 0.10 | mg/L | 1 | 2/2/2021 14:29 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 02-Feb-21

Client: ALS Environmental
Project: HS21010989
Sample ID: HS21010989-11
Collection Date: 1/25/2021 10:00 AM

Work Order: 21012014
Lab ID: 21012014-11
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|----------------|
| FLUORIDE | | | | | | | |
| Fluoride | U | | 0.058 | 0.10 | mg/L | 1 | 2/2/2021 14:29 |

Method: **A4500-F C-11** Analyst: **QTN**

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

WorkOrder: 21012014
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: 21012014
 Project: HS21010989

QC BATCH REPORT

Batch ID: **R309043** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R309043-R309043 | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|------------|--------|--------------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111817 | | 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-R309043-R309043 | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|------------|--------|---------------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111818 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0 97.2 80-120 0

| MS | | Sample ID: 21012013-02AMS | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111832 | | 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 0.03 97 75-125 0

| MS | | Sample ID: 21012014-02AMS | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: HS21010989-02 | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111843 | | 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 0.03 97 75-125 0

| MSD | | Sample ID: 21012013-02AMSD | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111833 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0.03 96.6 75-125 4.88 0.411 20

| MSD | | Sample ID: 21012014-02AMSD | | | | Units: mg/L | | Analysis Date: 2/1/2021 01:40 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|---|--------------|------|
| Client ID: HS21010989-02 | | Run ID: TITRATOR 1_210201A | | | SeqNo: 7111844 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.86 0.10 5 0.03 96.6 75-125 4.88 0.411 20

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21012014-01A | 21012014-02A | 21012014-03A |
| 21012014-04A | 21012014-05A | 21012014-06A |
| 21012014-07A | 21012014-08A | 21012014-09A |

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

Client: ALS Environmental
 Work Order: 21012014
 Project: HS21010989

QC BATCH REPORT

Batch ID: **R309125** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R309125-R309125 | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114586 | | 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-R309125-R309125 | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114587 | | 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: 21012091-01G MS | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114597 | | 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 | 0.07 | 98.6 | 75-125 | 0 | | | | |

| MSD | | Sample ID: 21012091-01G MSD | | | | Units: mg/L | | Analysis Date: 2/2/2021 02:29 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210202A | | | | SeqNo: 7114598 | | 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 | 0.07 | 99.6 | 75-125 | 5 | 0.995 | 20 | | |

The following samples were analyzed in this batch:

| | |
|--------------|--------------|
| 21012014-10A | 21012014-11A |
|--------------|--------------|

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



21012014

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: 15539

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: HS21010989
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|---------------------------------|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21010989-01 | MW-01 | Groundwater | 25 Jan 2021 11:25 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 2. | HS21010989-02 | MW-02 | Groundwater | 25 Jan 2021 09:40 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 3. | HS21010989-03 | MW-17 | Groundwater | 25 Jan 2021 11:00 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 4. | HS21010989-04 | MW-19 | Groundwater | 25 Jan 2021 09:25 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 5. | HS21010989-05 | MW-20 | Groundwater | 25 Jan 2021 11:05 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 6. | HS21010989-06 | MW-21 | Groundwater | 25 Jan 2021 10:10 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 7. | HS21010989-07 | MW-22 | Groundwater | 25 Jan 2021 09:25 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 8. | HS21010989-08 | MW-27R | Groundwater | 25 Jan 2021 09:55 |
| | Fluoride by ISE 4500. Equis EDD | | | 03 Feb 2021 |
| 9. | HS21010989-09 | MW-28 | Groundwater | 25 Jan 2021 10:40 |



Subcontract Chain of Custody

SAMPLING STATE: Texas


COC ID: 15539

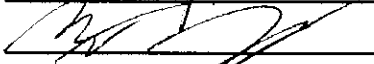
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--------------------|---------------------------------|-------------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| | Fluoride by ISE 4500. Equis EDD | | 03 Feb 2021 |
| 10. HS21010989-10 | DUP-01 | Groundwater | 25 Jan 2021 11:00 |
| | Fluoride by ISE 4500. Equis EDD | | 03 Feb 2021 |
| 11. HS21010989-11 | FB-01 | Groundwater | 25 Jan 2021 10:00 |
| | Fluoride by ISE 4500. Equis EDD | | 03 Feb 2021 |

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 HS21010989-02 = MS/MSD
 Import data from HS21010988

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

Relinquished By:



 Received By: 

 Cooler ID(s): _____

Date/Time:

1/26/2021 1800

Date/Time:

1/27/21 10:00

Temperature(s):

2.40C IRL PH24

②

Sample Receipt Checklist

Client Name: ALS - HOUSTON

Date/Time Received: 27-Jan-21 10:00

Work Order: 21012014

Received by: MJG

Checklist completed by Matthew Gaylord 27-Jan-21
eSignature Date

Reviewed by: Chad Whelton 27-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): 2.4/2.4C IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 1/27/2021 3:25:37 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:



Wednesday, February 24, 2021

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

Re: ALS Workorder: 2101490
Project Name:
Project Number: HS21010989

Dear Mr. Grandits:

Eleven water samples were received from ALS Environmental, on 1/27/2021. 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,

 FOR

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.



2101490

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: 2101490

Client Name: ALS Environmental

Client Project Name:

Client Project Number: HS21010989

Client PO Number: 10-15540

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| MW-01 | 2101490-1 | | WATER | 25-Jan-21 | 11:25 |
| MW-02 | 2101490-2 | | WATER | 25-Jan-21 | 9:40 |
| MW-17 | 2101490-3 | | WATER | 25-Jan-21 | 11:00 |
| MW-19 | 2101490-4 | | WATER | 25-Jan-21 | 9:25 |
| MW-20 | 2101490-5 | | WATER | 25-Jan-21 | 11:05 |
| MW-21 | 2101490-6 | | WATER | 25-Jan-21 | 10:10 |
| MW-22 | 2101490-7 | | WATER | 25-Jan-21 | 9:25 |
| MW-27R | 2101490-8 | | WATER | 25-Jan-21 | 9:55 |
| MW-28 | 2101490-9 | | WATER | 25-Jan-21 | 10:40 |
| DUP-01 | 2101490-10 | | WATER | 25-Jan-21 | 11:00 |
| FB-01 | 2101490-11 | | WATER | 25-Jan-21 | 10:00 |



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

210120

Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15540

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: HS21010989
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|--|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21010989-01 | MW-01 | Groundwater | 25 Jan 2021 11:25 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 2. | HS21010989-02 | MW-02 | Groundwater | 25 Jan 2021 09:40 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 3. | HS21010989-03 | MW-17 | Groundwater | 25 Jan 2021 11:00 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 4. | HS21010989-04 | MW-19 | Groundwater | 25 Jan 2021 09:25 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 5. | HS21010989-05 | MW-20 | Groundwater | 25 Jan 2021 11:05 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 6. | HS21010989-06 | MW-21 | Groundwater | 25 Jan 2021 10:10 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |

RIGHT SOLUTIONS PARTNER

26 Jan 2021



Subcontract Chain of Custody



SAMPLING STATE: Texas

COC ID: 15540

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|-----|--|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 7. | HS21010989-07 | MW-22 | Groundwater | 25 Jan 2021 09:25 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 8. | HS21010989-08 | MW-27R | Groundwater | 25 Jan 2021 09:55 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 9. | HS21010989-09 | MW-28 | Groundwater | 25 Jan 2021 10:40 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 10. | HS21010989-10 | DUP-01 | Groundwater | 25 Jan 2021 11:00 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| 11. | HS21010989-11 | FB-01 | Groundwater | 25 Jan 2021 10:00 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 16 Feb 2021 |

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 HS21010989-02 = MS/MSD
 MS/MSD must be performed on client sample.

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

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

Date/Time: 1/26/2021 1800
 Date/Time: 1/27/21 1015
 Temperature(s): _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: ALS Houston Workorder No: 2101490
Project Manager: JME Initials: TM Date: 1/27/21

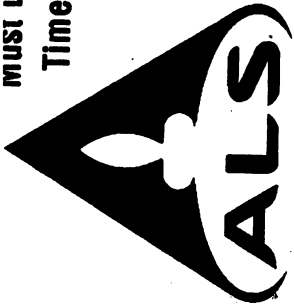
1. Are airbills / shipping documents present and/or removable?
2. Are custody seals on shipping containers intact?
3. Are custody seals on sample containers intact?
4. Is there a COC (chain-of-custody) present?
5. Is the COC in agreement with samples received?
6. Are short-hold samples present?
7. Are all samples within holding times for the requested analyses?
8. Were all sample containers received intact?
9. Is there sufficient sample for the requested analyses?
10. Are samples in proper containers for requested analyses?
11. Are all aqueous samples preserved correctly, if required?
12. Were unpreserved samples pH checked, if required?
13. Are all samples requiring no headspace free of bubbles > 6 mm in diameter?
14. Were the samples shipped on ice?
15. Were cooler temperatures measured at 0.1 - 6.0°C?

Cooler #: 1 2
Temperature (°C): amb amb
of custody seals on cooler: 2 2
External mR/hr reading: 10 10
Background mR/hr reading: 10
Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008)

* 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: TM

If applicable, was the client contacted? YES [] N/A [X] Contact Name Date:
Project Manager Signature / Date: [Signature]

Must Deliver Next Business Day
Time and Temperature Sensitive!



ORIGIN ID: 569A (281) 530-5856
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

SHIP DATE: 26 JAN 21
ACTWT: 37.05 LB
CRD: 0221247/CAFE3408

BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
225 COMMERCE DRIVE

10-2
am

FORT COLLINS CO 80524

(970) 490-1511
REF: HS21010988/989 - CG

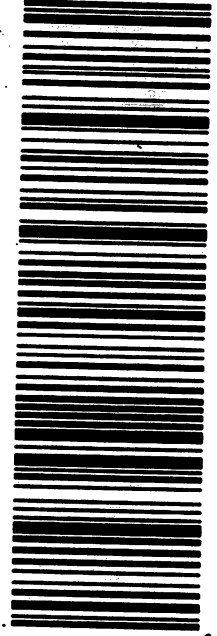


2 of 2
WED - 27 JAN 4:30P
STANDARD OVERNIGHT

MP# 9473 0839 8374
Met# 9473 0839 8363

0201
NA FTCA

80524
CO-US DEN



Must Deliver Next Business Day
Time and Temperature Sensitive!



ORIGIN ID: 569A (281) 530-5856
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

SHIP DATE: 26 JAN 21
ACTWT: 42.65 LB
CRD: 0221247/CAFE3408
DIM: 26x14x14 IN

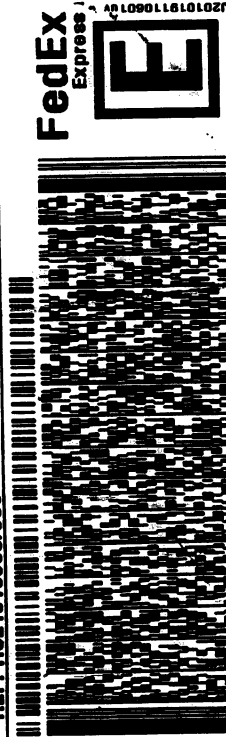
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
225 COMMERCE DRIVE

10-2
am

FORT COLLINS CO 80524

(970) 490-1511
REF: HS21010988/989 - CG

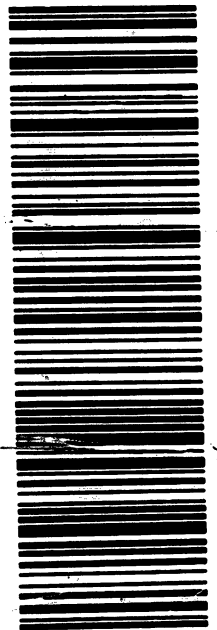


1 of 2
WED - 27 JAN 4:30P
STANDARD OVERNIGHT

TRK# 9473 0839 8363
MASTER

0201
NA FTCA

80524
CO-US DEN



Client: ALS Environmental
Project: HS21010989
Sample ID: MW-01
Legal Location:
Collection Date: 1/25/2021 11:25

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-1
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|-----------------|------|----------------|-------------------|-----------------------------|--------------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | | | | |
| Ra-226 | 1.31 (+/- 0.51) | | SOP 783 | | Prep Date: 1/29/2021 | PrepBy: TRB |
| <i>Carr: BARIUM</i> | 96.5 | | | 0.3 pCi/l | NA | 2/10/2021 11:55 |
| | | | | 40-110 %REC | DL = NA | 2/10/2021 11:55 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | 3.5 (+/- 0) | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| Ra-228 | 2.19 (+/- 0.71) | | | 0.89 pCi/l | NA | 2/22/2021 08:16 |
| <i>Carr: BARIUM</i> | 96.9 | | | 40-110 %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-02
Legal Location:
Collection Date: 1/25/2021 09:40

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-2
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.49) | U | 0.77 | pCi/l | NA | 2/10/2021 11:55 |
| Carr: BARIUM | 86.4 | | 40-110 | %REC | DL = NA | 2/10/2021 11:55 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 1.37 (+/- 0) | | 0.81 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | 1.37 (+/- 0.53) | Y1 | 0.81 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 101 | Y1 | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-17
Legal Location:
Collection Date: 1/25/2021 11:00

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-3
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | 0.34 (+/- 0.27) | | 0.32 | pCi/l | NA | 2/10/2021 11:55 |
| <i>Carr: BARIUM</i> | <i>92</i> | | <i>40-110</i> | <i>%REC</i> | DL = NA | 2/10/2021 11:55 |
| Radium-228 Analysis by GFPC | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.86 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | ND (+/- 0.39) | U | 0.86 | pCi/l | NA | 2/22/2021 08:16 |
| <i>Carr: BARIUM</i> | <i>97.3</i> | | <i>40-110</i> | <i>%REC</i> | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-19
Legal Location:
Collection Date: 1/25/2021 09:25

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-4
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.26) | U | 0.47 | pCi/l | NA | 2/10/2021 12:27 |
| Carr: BARIUM | 96.3 | | 40-110 | %REC | DL = NA | 2/10/2021 12:27 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 0.94 (+/- 0) | | 0.76 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | 0.94 (+/- 0.44) | | 0.76 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 97.7 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-20
Legal Location:
Collection Date: 1/25/2021 11:05

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-5
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | 0.36 (+/- 0.25) | | 0.28 | pCi/l | NA | 2/10/2021 12:27 |
| <i>Carr: BARIUM</i> | 83.4 | | 40-110 | %REC | DL = NA | 2/10/2021 12:27 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.83 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | ND (+/- 0.38) | U | 0.83 | pCi/l | NA | 2/22/2021 08:16 |
| <i>Carr: BARIUM</i> | 98.2 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-21
Legal Location:
Collection Date: 1/25/2021 10:10

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-6
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: 1/29/2021 | |
| Ra-226 | ND (+/- 0.18) | U | 0.34 | pCi/l | NA | 2/10/2021 12:27 |
| Carr: BARIUM | 90.3 | | 40-110 | %REC | DL = NA | 2/10/2021 12:27 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.77 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | ND (+/- 0.39) | U | 0.77 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 97.8 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-22
Legal Location:
Collection Date: 1/25/2021 09:25

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-7
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.35) | U | 0.46 | pCi/l | NA | 2/10/2021 12:27 |
| Carr: BARIUM | 96.7 | | 40-110 | %REC | DL = NA | 2/10/2021 12:27 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.9 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | ND (+/- 0.42) | U | 0.9 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 98.4 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
 Project: HS21010989
 Sample ID: MW-27R
 Legal Location:
 Collection Date: 1/25/2021 09:55

Date: 24-Feb-21
 Work Order: 2101490
 Lab ID: 2101490-8
 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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | 0.32 (+/- 0.25) | | 0.3 | pCi/l | NA | 2/11/2021 10:51 |
| <i>Carr: BARIUM</i> | <i>91.8</i> | | <i>40-110</i> | <i>%REC</i> | DL = NA | 2/11/2021 10:51 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 2.78 (+/- 0) | | 0.75 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | 2.46 (+/- 0.72) | | 0.75 | pCi/l | NA | 2/22/2021 08:16 |
| <i>Carr: BARIUM</i> | <i>98.7</i> | | <i>40-110</i> | <i>%REC</i> | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: MW-28
Legal Location:
Collection Date: 1/25/2021 10:40

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-9
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | 0.73 (+/- 0.42) | | 0.45 | pCi/l | NA | 2/11/2021 10:51 |
| <i>Carr: BARIUM</i> | 79 | | 40-110 | %REC | DL = NA | 2/11/2021 10:51 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 7.43 (+/- 0) | | 0.8 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | 6.7 (+/- 1.7) | | 0.8 | pCi/l | NA | 2/22/2021 08:16 |
| <i>Carr: BARIUM</i> | 96.6 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: DUP-01
Legal Location:
Collection Date: 1/25/2021 11:00

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-10
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.18) | U | 0.35 | pCi/l | NA | 2/11/2021 10:51 |
| Carr: BARIUM | 90.9 | | 40-110 | %REC | DL = NA | 2/11/2021 10:51 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 1.17 (+/- 0) | | 0.7 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | 1.17 (+/- 0.46) | | 0.7 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 97.8 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: FB-01
Legal Location:
Collection Date: 1/25/2021 10:00

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-11
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: 1/29/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.25) | U | 0.37 | pCi/l | NA | 2/11/2021 10:51 |
| Carr: BARIUM | 86.6 | | 40-110 | %REC | DL = NA | 2/11/2021 10:51 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 2/16/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.72 | pCi/l | NA | 2/22/2021 08:16 |
| Ra-228 | ND (+/- 0.34) | U | 0.72 | pCi/l | NA | 2/22/2021 08:16 |
| Carr: BARIUM | 98.7 | | 40-110 | %REC | DL = NA | 2/22/2021 08:16 |

Client: ALS Environmental
Project: HS21010989
Sample ID: FB-01
Legal Location:
Collection Date: 1/25/2021 10:00

Date: 24-Feb-21
Work Order: 2101490
Lab ID: 2101490-11
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------|--------|------|--------------|-------|-----------------|---------------|
|----------|--------|------|--------------|-------|-----------------|---------------|

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: 2/24/2021 3:05:

Client: ALS Environmental
 Work Order: 2101490
 Project: HS21010989

QC BATCH REPORT

Batch ID: **RE210129-9-2** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

| DUP | | Sample ID: 2101490-2 | | | Units: pCi/l | | Analysis Date: 2/10/2021 11:55 | | | | |
|-------------------------|--------|-----------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: MW-02 | | Run ID: RE210129-1A | | | | | Prep Date: 1/29/2021 | | 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 | 0.51 | | | | | | 0.38 | 0.19 | 2.13 | U |
| Carr: BARIUM | 16380 | | 16760 | | 97.7 | 40-110 | | 14470 | | | |

| LCS | | Sample ID: RE210129-9 | | | Units: pCi/l | | Analysis Date: 2/11/2021 10:51 | | | | |
|--------------|-------------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210129-1A | | | | | Prep Date: 1/29/2021 | | DF: NA | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 48 (+/- 12) | 0 | 46.8 | | 102 | 67-120 | | | | | P |
| Carr: BARIUM | 13560 | | 16710 | | 81.2 | 40-110 | | | | | |

| LCSD | | Sample ID: RE210129-9 | | | Units: pCi/l | | Analysis Date: 2/11/2021 10:51 | | | | |
|--------------|-------------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210129-1A | | | | | Prep Date: 1/29/2021 | | 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 | | 95.6 | 67-120 | | 48 | 0.18 | 2.13 | P |
| Carr: BARIUM | 14060 | | 16710 | | 84.2 | 40-110 | | 13560 | | | |

| MB | | Sample ID: RE210129-9 | | | Units: pCi/l | | Analysis Date: 2/10/2021 11:18 | | | | |
|--------------|--------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210129-1A | | | | | Prep Date: 1/29/2021 | | 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 | 0.114 | | | | | | | | | U |
| Carr: BARIUM | 13950 | | 16710 | | 83.4 | 40-110 | | | | | |

The following samples were analyzed in this batch:

| | | |
|------------|------------|-----------|
| 2101490-1 | 2101490-2 | 2101490-3 |
| 2101490-4 | 2101490-5 | 2101490-6 |
| 2101490-7 | 2101490-8 | 2101490-9 |
| 2101490-10 | 2101490-11 | |

Client: ALS Environmental
 Work Order: 2101490
 Project: HS21010989

QC BATCH REPORT

Batch ID: RA210216-1-2 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

| DUP | | Sample ID: 2101490-2 | | Units: ug | | Analysis Date: 2/22/2021 08:16 | | | | | |
|------------------|----------------|----------------------|---------|----------------------|------|--------------------------------|----------------|---------------|------|-----------|------|
| Client ID: MW-02 | | Run ID: RA210216-1A | | Prep Date: 2/16/2021 | | 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 | | 32200 | | 100 | 40-110 | | 32420 | | | Y1 |
| Ra-228 | 1.74 (+/- 0.6) | 0.82 | | | | | | 1.37 | 0.45 | 2.13 | Y1 |

| LCS | | Sample ID: RA210216-1 | | Units: ug | | Analysis Date: 2/22/2021 08:16 | | | | | |
|--------------|----------------|-----------------------|---------|----------------------|------|--------------------------------|----------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RA210216-1A | | Prep Date: 2/16/2021 | | DF: NA | | | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Carr: BARIUM | 33090 | | 32100 | | 103 | 40-110 | | | | | Y1 |
| Ra-228 | 21.8 (+/- 5.1) | 0.7 | 22.58 | | 96.5 | 70-130 | | | | | P,Y1 |

| MB | | Sample ID: RA210216-1 | | Units: ug | | Analysis Date: 2/22/2021 08:16 | | | | | |
|--------------|--------|-----------------------|---------|----------------------|------|--------------------------------|----------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RA210216-1A | | Prep Date: 2/16/2021 | | DF: NA | | | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Carr: BARIUM | 32370 | | 32100 | | 101 | 40-110 | | | | | Y1 |
| Ra-228 | ND | 0.76 | | | | | | | | | Y1,U |

The following samples were analyzed in this batch:

| | | |
|------------|------------|-----------|
| 2101490-1 | 2101490-2 | 2101490-3 |
| 2101490-4 | 2101490-5 | 2101490-6 |
| 2101490-7 | 2101490-8 | 2101490-9 |
| 2101490-10 | 2101490-11 | |



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April 1, 2021

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

Work Order: **HS21030755**

Laboratory Results for: **NRG Limestone - Appendix III**

Dear Lori Burris,

ALS Environmental received 1 sample(s) on Mar 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 Limestone - Appendix III
WorkOrder: HS21030755

**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 Limestone - Appendix III
WorkOrder: HS21030755

**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: 04/01//2021 | | | | |
|--|----------------|--|--|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | | Laboratory Job Number: HS21030755 | | | | |
| Reviewer Name: Corey Grandits | | | Prep Batch Number(s): 163767,R379982,R380031,R380039 | | | | |
| # 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: 04/01/2021 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21030755 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 163767,R379982,R380031,R380039 | | | | | |
| # 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: 04/01/2021 |
|--|---|--|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21030755 |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 163767,R379982,R380031,R380039 |
| ER# ⁵ | Description | |
| 1 | <p>Batch 163767, Metals Method SW6020, sample HS21031138-01, MS and MSD were performed on unrelated sample.</p> <p>Batch R380039, Anions Method E300, sample HS21031008-02, MS and MSD were performed on unrelated sample.</p> <p>Batch R380039, Anions Method E300, sample HS21030815-01, MS and MSD were performed on unrelated sample.</p> | |
| 2 | The analysis for Fluoride by ISE 4500 was subcontracted to ALS Environmental in Holland, MI. Final Report and Laboratory Review Checklist are attached to the Report. | |
| 3 | See Run Log and CCB Exceptions Report. | |
| 4 | Batch 163767, Metals Method SW6020, sample HS21031138-01, PDS was performed on unrelated sample. | |
| <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);</p> <p>NA = Not Applicable;</p> <p>NR = Not Reviewed;</p> <p>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
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755
Start Date: 23-Mar-2021

End Date: 24-Mar-2021

Run ID: ICPMS06_380159
Instrument: ICPMS06
Method: SW6020

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|----------|
| LLICV2 | 1 | 23-Mar-2021 14:09 | 018LCV2.d | B |
| LLICV5 | 1 | 23-Mar-2021 14:11 | 019LCV5.d | B |
| ICB | 1 | 23-Mar-2021 14:13 | 020_ICB.d | B CA |
| ICV | 1 | 23-Mar-2021 14:15 | 021_ICV.d | B CA |
| ICSA | 1 | 23-Mar-2021 14:21 | 023ICSA.d | B |
| ICSAB | 1 | 23-Mar-2021 14:23 | 024ICSB.d | B |
| CCV 1 | 1 | 23-Mar-2021 14:51 | 032_CCV.d | B CA |
| CCB 1 | 1 | 23-Mar-2021 14:53 | 033_CCB.d | B CA |
| CCV 2 | 1 | 23-Mar-2021 15:13 | 042_CCV.d | B CA |
| CCB 2 | 1 | 23-Mar-2021 15:21 | 044_CCB.d | B CA |
| CCV 3 | 1 | 23-Mar-2021 15:59 | 055_CCV.d | B CA |
| CCB 3 | 1 | 23-Mar-2021 16:04 | 057_CCB.d | B CA |
| CCV 4 | 1 | 23-Mar-2021 16:24 | 066_CCV.d | B CA |
| CCB 4 | 1 | 23-Mar-2021 16:29 | 068_CCB.d | B CA |
| CCV 5 | 1 | 23-Mar-2021 17:07 | 079_CCV.d | B CA |
| CCB 5 | 1 | 23-Mar-2021 17:15 | 081_CCB.d | B CA |
| CCB 6 | 1 | 23-Mar-2021 17:42 | 094_CCB.d | B CA |
| CCV 6 | 1 | 23-Mar-2021 17:44 | 095_CCV.d | B CA |
| CCV 7 | 1 | 23-Mar-2021 18:06 | 106_CCV.d | B CA |
| CCB 7 | 1 | 23-Mar-2021 18:10 | 108_CCB.d | B CA |
| CCV 8 | 1 | 23-Mar-2021 18:22 | 114_CCV.d | B CA |
| CCB 8 | 1 | 23-Mar-2021 18:24 | 115_CCB.d | B CA |
| CCV 9 | 1 | 23-Mar-2021 20:00 | 120_CCV.d | B CA |
| CCB 9 | 1 | 23-Mar-2021 20:02 | 121_CCB.d | B CA |
| CCV 10 | 1 | 23-Mar-2021 20:14 | 127_CCV.d | B CA |
| CCB 10 | 1 | 23-Mar-2021 20:16 | 128_CCB.d | B CA |
| CCV 11 | 1 | 23-Mar-2021 20:36 | 138_CCV.d | B CA |
| CCB 11 | 1 | 23-Mar-2021 20:38 | 139_CCB.d | B CA |
| MBLK-163767 | 1 | 23-Mar-2021 20:40 | 140SMPL.d | B CA |
| LCS-163767 | 1 | 23-Mar-2021 20:42 | 141SMPL.d | B CA |
| ZZZZZSD | 5 | 23-Mar-2021 20:46 | 143SMPL.d | CA |
| ZZZZZMS | 1 | 23-Mar-2021 20:48 | 144SMPL.d | B CA |
| ZZZZZMSD | 1 | 23-Mar-2021 20:50 | 145SMPL.d | B CA |
| ZZZZZPDS | 1 | 23-Mar-2021 20:52 | 146SMPL.d | CA |
| CCV 12 | 1 | 23-Mar-2021 20:54 | 147_CCV.d | B CA |
| CCB 12 | 1 | 23-Mar-2021 20:56 | 148_CCB.d | B CA |
| CCV 13 | 1 | 23-Mar-2021 21:10 | 155_CCV.d | B CA |
| CCB 13 | 1 | 23-Mar-2021 21:12 | 156_CCB.d | B CA |
| MW-27R | 1 | 23-Mar-2021 21:24 | 162SMPL.d | B |
| CCV 14 | 1 | 23-Mar-2021 21:28 | 164_CCV.d | B CA |
| CCB 14 | 1 | 23-Mar-2021 21:30 | 165_CCB.d | B CA |
| ICCV 15 | 1 | 23-Mar-2021 23:27 | 208_ICV.d | B CA |
| LLICCV5 | 1 | 23-Mar-2021 23:31 | 210LCV5.d | B |
| ICCB 15 | 1 | 23-Mar-2021 23:33 | 211_ICB.d | B CA |
| LLICCV2 | 1 | 23-Mar-2021 23:35 | 212LCV2.d | B |
| CCV 16 | 1 | 23-Mar-2021 23:53 | 221_CCV.d | B CA |
| CCB 16 | 1 | 23-Mar-2021 23:55 | 222_CCB.d | B CA |
| CCV 17 | 1 | 24-Mar-2021 00:11 | 230_CCV.d | B CA |
| CCB 17 | 1 | 24-Mar-2021 00:13 | 231_CCB.d | B CA |
| CCV 18 | 1 | 24-Mar-2021 00:25 | 237_CCV.d | B CA |
| CCB 18 | 1 | 24-Mar-2021 00:27 | 238_CCB.d | B CA |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

Run ID: ICPMS06_380159
Instrument: ICPMS06
Method: SW6020

Start Date: 23-Mar-2021 End Date: 24-Mar-2021

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| CCV 19 | 1 | 24-Mar-2021 00:45 | 247_CCV.d | B CA |
| CCB 19 | 1 | 24-Mar-2021 00:47 | 248_CCB.d | B CA |
| LLCCV2 | 1 | 24-Mar-2021 00:51 | 250LCV2.d | B |
| LLCCV5 | 1 | 24-Mar-2021 00:53 | 251LCV5.d | B |
| ICSA | 1 | 24-Mar-2021 00:55 | 252ICSA.d | B |
| ICSAB | 1 | 24-Mar-2021 00:57 | 253ICSB.d | B |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

Run ID:ICPMS06_380159
Instrument:ICPMS06
Method:SW6020

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 1 | 23-Mar-2021 14:53 | 6006911 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 76.56 | 11 | 20 |
| CCB 2 | 23-Mar-2021 15:21 | 6006920 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 18.88 | 11 | 20 |
| CCB 3 | 23-Mar-2021 16:04 | 6007693 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 20.49 | 11 | 20 |
| CCB 4 | 23-Mar-2021 16:29 | 6007704 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 16.62 | 11 | 20 |
| CCB 7 | 23-Mar-2021 18:10 | 6007742 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 36.95 | 11 | 20 |
| CCB 8 | 23-Mar-2021 18:24 | 6007749 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 39.11 | 11 | 20 |
| CCB 9 | 23-Mar-2021 20:02 | 6007751 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 22.55 | 11 | 20 |
| CCB 10 | 23-Mar-2021 20:16 | 6007758 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 46.79 | 11 | 20 |
| CCB 11 | 23-Mar-2021 20:38 | 6007769 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 29.8 | 11 | 20 |
| CCB 12 | 23-Mar-2021 20:56 | 6007778 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 38.59 | 11 | 20 |
| CCB 13 | 23-Mar-2021 21:12 | 6007782 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 26.08 | 11 | 20 |
| CCB 14 | 23-Mar-2021 21:30 | 6007791 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 22.3 | 11 | 20 |
| CCB 16 | 23-Mar-2021 23:55 | 6007813 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 23.71 | 11 | 20 |
| CCB 17 | 24-Mar-2021 00:13 | 6007822 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 21.08 | 11 | 20 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

Run ID:ICPMS06_380159
Instrument:ICPMS06
Method:SW6020

| CCB ID | Date | Seq | D/F | Units |
|----------------|-------------------|---------------|------------|---------------------|
| CCB 18 | 24-Mar-2021 00:27 | 6007829 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 51.55 | 11 20 |
| CCB 19 | 24-Mar-2021 00:47 | 6007839 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 30.82 | 11 20 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
Work Order: HS21030755

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21030755-01 | MW-27R | Groundwater | | 15-Mar-2021 11:00 | 15-Mar-2021 14:36 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-27R
 Collection Date: 15-Mar-2021 11:00

ANALYTICAL REPORT

WorkOrder:HS21030755
 Lab ID:HS21030755-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 23-Mar-2021 | | Analyst: JHD | |
| Boron | 0.150 | | 0.0110 | 0.0200 | mg/L | 1 | 23-Mar-2021 21:24 |
| Calcium | 307 | | 0.680 | 10.0 | mg/L | 20 | 24-Mar-2021 13:24 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 1,830 | | 20.0 | 50.0 | mg/L | 100 | 20-Mar-2021 03:39 |
| Sulfate | 559 | | 2.00 | 5.00 | mg/L | 10 | 19-Mar-2021 17:11 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 4,400 | | 5.00 | 10.0 | mg/L | 1 | 18-Mar-2021 14:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 22-Mar-2021 09:21 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

Batch ID: 163767 **Start Date:** 23 Mar 2021 14:00 **End Date:** 23 Mar 2021 18:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21030755-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-------------------|----------------------------|-----|
| Batch ID: 163767 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | 23 Mar 2021 18:00 | 24 Mar 2021 13:24 | 20 |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | 23 Mar 2021 18:00 | 23 Mar 2021 21:24 | 1 |
| Batch ID: R379982 (0) | | Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C | | | Matrix: Groundwater | |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | | 18 Mar 2021 14:00 | 1 |
| Batch ID: R380031 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | | 22 Mar 2021 09:21 | 1 |
| Batch ID: R380039 (0) | | Test Name : ANIONS BY E300.0 | | | Matrix: Groundwater | |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | | 20 Mar 2021 03:39 | 100 |
| HS21030755-01 | MW-27R | 15 Mar 2021 11:00 | | | 19 Mar 2021 17:11 | 10 |

WorkOrder: HS21030755
InstrumentID: ICPMS06
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 | 0.0172 | 0.0110 | 0.0200 |
| A | Calcium | 7440-70-2 | 0.0500 | 0.0644 | 0.0340 | 0.500 |

WorkOrder: HS21030755
 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: HS21030755
 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 Limestone - Appendix III
WorkOrder: HS21030755

QC BATCH REPORT

| Batch ID: 163767 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|------------------------|------------------------------------|-----------------------|---------|---|-------|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: MBLK-163767 | Units: mg/L | | Analysis Date: 23-Mar-2021 20:40 | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007770 | | PrepDate: 23-Mar-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 | 0.1211 | 0.500 | | | | | | | | J |
| LCS | Sample ID: LCS-163767 | Units: mg/L | | Analysis Date: 23-Mar-2021 20:42 | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007771 | | PrepDate: 23-Mar-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.4714 | 0.0200 | 0.5 | 0 | 94.3 | 80 - 120 | | | | |
| Calcium | 4.999 | 0.500 | 5 | 0 | 100.0 | 80 - 120 | | | | |
| MS | Sample ID: HS21031138-01MS | Units: mg/L | | Analysis Date: 23-Mar-2021 20:48 | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007774 | | PrepDate: 23-Mar-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.7595 | 0.0200 | 0.5 | 0.2868 | 94.5 | 80 - 120 | | | | |
| Calcium | 84.6 | 0.500 | 5 | 82.25 | 46.9 | 80 - 120 | | | | SO |
| MSD | Sample ID: HS21031138-01MSD | Units: mg/L | | Analysis Date: 23-Mar-2021 20:50 | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007775 | | PrepDate: 23-Mar-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.8702 | 0.0200 | 0.5 | 0.2868 | 117 | 80 - 120 | 0.7595 | 13.6 | 20 | |
| Calcium | 88.28 | 0.500 | 5 | 82.25 | 120 | 80 - 120 | 84.6 | 4.25 | 20 | SO |
| PDS | Sample ID: HS21031138-01PDS | Units: mg/L | | Analysis Date: 23-Mar-2021 20:52 | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007776 | | PrepDate: 23-Mar-2021 | | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 89.35 | 0.500 | 10 | 82.25 | 71.0 | 75 - 125 | | | | SO |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

QC BATCH REPORT

| | | |
|-------------------------------|----------------------------|---|
| Batch ID: 163767 (0) | Instrument: ICPMS06 | Method: ICP-MS METALS BY SW6020A |
|-------------------------------|----------------------------|---|

| | | | | | | | | | | |
|------------|-----------------------------------|-----------------------|---|---------------|------|---------------|---------------|----|-------|------|
| SD | Sample ID: HS21031138-01SD | Units: mg/L | Analysis Date: 23-Mar-2021 20:46 | | | | | | | |
| Client ID: | Run ID: ICPMS06_380159 | SeqNo: 6007773 | PrepDate: 23-Mar-2021 DF: 5 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | Limit | Qual |

| | | | | | | | | | |
|---------|-------|------|--|--|--|--|-------|-------|----|
| Calcium | 82.87 | 2.50 | | | | | 82.25 | 0.755 | 10 |
|---------|-------|------|--|--|--|--|-------|-------|----|

The following samples were analyzed in this batch: HS21030755-01

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

QC BATCH REPORT

Batch ID: R379982 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C

| | | | | | | | | | | |
|-------------|--------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: WBLK-031821 | Units: mg/L | | | Analysis Date: 18-Mar-2021 14:00 | | | | | |
| Client ID: | Run ID: Balance1_379982 | SeqNo: 6003043 | 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-031821 | Units: mg/L | | | Analysis Date: 18-Mar-2021 14:00 | | | | | |
| Client ID: | Run ID: Balance1_379982 | SeqNo: 6003044 | 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) 1010 10.0 1000 0 101 85 - 115

| | | | | | | | | | | |
|------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21030931-02DUP | Units: mg/L | | | Analysis Date: 18-Mar-2021 14:00 | | | | | |
| Client ID: | Run ID: Balance1_379982 | SeqNo: 6003042 | 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) 214 10.0 208 2.84 5

| | | | | | | | | | | |
|------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21030893-01DUP | Units: mg/L | | | Analysis Date: 18-Mar-2021 14:00 | | | | | |
| Client ID: | Run ID: Balance1_379982 | SeqNo: 6004017 | 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) 3068 10.0 3054 0.457 5

The following samples were analyzed in this batch: HS21030755-01

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

QC BATCH REPORT

| Batch ID: R380039 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0 | | | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|--------------------------|---|---------------|---------------|---------------|-----------|------|
| MBLK | Sample ID: MBLK- | Units: mg/L | | | Analysis Date: 19-Mar-2021 10:24 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_380039 | | SeqNo: 6004447 | | 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: 19-Mar-2021 10:43 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_380039 | | SeqNo: 6004448 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 18.76 | 0.500 | 20 | 0 | 93.8 | 90 - 110 | | | | |
| Sulfate | 19.17 | 0.500 | 20 | 0 | 95.9 | 90 - 110 | | | | |
| MS | Sample ID: HS21031008-02MS | Units: mg/L | | | Analysis Date: 19-Mar-2021 16:16 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_380039 | | SeqNo: 6004453 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 108.9 | 0.500 | 10 | 100.5 | 84.0 | 80 - 120 | | | | EO |
| Sulfate | 177 | 0.500 | 10 | 169.2 | 77.9 | 80 - 120 | | | | SEO |
| MS | Sample ID: HS21030815-01MS | Units: mg/L | | | Analysis Date: 19-Mar-2021 23:56 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_380039 | | SeqNo: 6004464 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 195.9 | 5.00 | 100 | 103.9 | 92.1 | 80 - 120 | | | | |
| Sulfate | 450.1 | 5.00 | 100 | 523.7 | -73.6 | 80 - 120 | | | | SO |
| MSD | Sample ID: HS21031008-02MSD | Units: mg/L | | | Analysis Date: 19-Mar-2021 16:34 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_380039 | | SeqNo: 6004454 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 108.6 | 0.500 | 10 | 100.5 | 81.6 | 80 - 120 | 108.9 | 0.22 | 20 | EO |
| Sulfate | 175.2 | 0.500 | 10 | 169.2 | 60.2 | 80 - 120 | 177 | 1 | 20 | SEO |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

QC BATCH REPORT

Batch ID: R380039 (0) Instrument: ICS-Integrion Method: ANIONS BY E300.0

| MSD | Sample ID: HS21030815-01MSD | Units: mg/L | | | Analysis Date: 20-Mar-2021 00:15 | | | | | |
|------------|------------------------------|----------------|-----------|---------------|----------------------------------|---------------|---------------|------|-----------|------|
| Client ID: | Run ID: ICS-Integrion_380039 | SeqNo: 6004465 | PrepDate: | DF: 10 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 193.7 | 5.00 | 100 | 103.9 | 89.8 | 80 - 120 | 195.9 | 1.17 | 20 | |
| Sulfate | 444.9 | 5.00 | 100 | 523.7 | -78.8 | 80 - 120 | 450.1 | 1.16 | 20 | SO |

The following samples were analyzed in this batch:

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21030755

**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-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 Limestone - Appendix III
Work Order: HS21030755

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|----------------------|--------|--------------|
| HS21030755-01 | MW-27R | Login | 3/15/2021 3:40:28 PM | PMG | Disposed |
| HS21030755-01 | MW-27R | Login | 3/15/2021 3:40:28 PM | PMG | Disposed |
| HS21030755-01 | MW-27R | Login | 3/15/2021 3:40:28 PM | PMG | Sub |

Sample Receipt Checklist

Work Order ID: HS21030755

Date/Time Received: 15-Mar-2021 14:36

Client Name: TRC-HOU

Received by: Paresh M. Giga

| | | | |
|----------------------------------|-------------------|---------------------------------|-------------------|
| Completed By: /S/ Paresh M. Giga | 15-Mar-2021 15:43 | Reviewed by: /S/ Corey Grandits | 16-Mar-2021 10:56 |
| eSignature | Date/Time | eSignature | Date/Time |

Matrices: **GW**

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:206432
- 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): | 0.8C U/c | IR31 |
| Cooler(s)/Kit(s): | 46052 | |
| Date/Time sample(s) sent to storage: | 3/15/2021 15:55 | |
| 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:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 206432

HS21030755

TRC Corporation
NRG Limestone - Appendix III



ALS Project Manager:


| Customer Information | | Project Information | | |
|----------------------|--------------------------------|---------------------|------------------------------------|---|
| Purchase Order | 298367.1000 | Project Name | NRG Limestone- 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 | 10550 Richmond Ave., Suite 210 | E |
| | | | | F |
| City/State/Zip | Houston, TX 77042 | City/State/Zip | Houston TX 77042 | 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-27R | 3/15/21 | 1100 | GW | 2,8 | | X | X | X | X | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | | | | | | | | |
|--|------------------|-----------------------------------|---|--|-----------------------|--|---|--|
| Sampler(s) Please Print & Sign <i>Rudy Mueller</i> | | Shipment Method Hand Delivered | | 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>Rudy Mueller</i> | Date: 3.15.21 | Time: 1436 | Received by: | Notes: NRG Limestone <input type="checkbox"/> PRIVILEGED & CONFIDENTIAL | | | | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): <i>[Signature]</i> | Cooler ID 46052 | Cooler Temp. 0.8°C | QC Package: (Check One Box Below) | | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | | | <input type="checkbox"/> Level II Std QC | <input checked="" 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 Date | <input type="checkbox"/> TRRP Level IV | |
| | | | | | | <input type="checkbox"/> Level IV SV043/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.

Copyright 2011 by ALS Environmental.

| | | | |
|---|--------------------------------|-------------|----------------------|
|  | ALS | <i>1602</i> | CUS |
| | 10450 Stancliff Rd., Suite 210 | | Date: <i>3.15.21</i> |
| | Houston, Texas 77099 | | Name: <i>Rudy</i> |
| | Tel. +1 281 530 5656 | | Company: _____ |
| | Fax. +1 281 530 5887 | | |

| | |
|---------------------|------------------------|
| TODY SEAL | Seal Broken By: _____ |
| Time: <i>Muller</i> | Date: <i>3/15/2021</i> |



22-Mar-2021

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

Re: **HS21030755**

Work Order: **21031596**

Dear Corey,

ALS Environmental received 1 sample on 16-Mar-2021 09:30 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 13.

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".

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 RIGHT PARTNER
Privileged and Confidential
Page 29 of 41

Client: ALS Environmental
Project: HS21030755
Work Order: 21031596

**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_210319A | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21031596, 21031597 | | | | | |
| Analyst Name: QN | | Date 3/19/21 | Reviewer Name: JB | | Date: 3/19/21 | | |
| | 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: HS21030755
Work Order: 21031596

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21031596-01 | HS21030755-01 | Groundwater | MW-27R | 3/15/2021 11:00 | 3/16/2021 09:30 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21030755
WorkOrder: 21031596

**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: 21031596
Client: ALS Environmental
Project: HS21030755

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|--|------------------|-------------|-----------------------|-----------|-----------|--------------------|
| Batch ID <u>R312212</u> Test Name: <u>Fluoride</u> | | | | | | |
| 21031596-01A | HS21030755-01 | Groundwater | 3/15/2021 11:00:00 AM | | | 3/19/2021 12:59 PM |

ALS Group, USA

Date: 22-Mar-21

Client: ALS Environmental
Project: HS21030755
Sample ID: HS21030755-01
Collection Date: 3/15/2021 11:00 AM

Work Order: 21031596
Lab ID: 21031596-01
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 | 3/19/2021 12:59 |

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

WorkOrder: 21031596
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: 21031596
Project: HS21030755

QC BATCH REPORT

Batch ID: **R312212** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R312212-R312212 | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210319A | | | | SeqNo: 7229974 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | ND | 0.10 | | | | | | | | | |

| LCS | | Sample ID: LCS-R312212-R312212 | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210319A | | | | SeqNo: 7229975 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 4.81 | 0.10 | 5 | 0 | 96.2 | 80-120 | | 0 | | | |

| MS | | Sample ID: 21031403-01G MS | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210319A | | | | SeqNo: 7229981 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 4.98 | 0.10 | 5 | 0.08 | 98 | 75-125 | | 0 | | | |

| MSD | | Sample ID: 21031403-01G MSD | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_210319A | | | | SeqNo: 7229982 | | 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 | 4.98 | 0.401 | 20 | | |

The following samples were analyzed in this batch: 21031596-01A

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



21031596

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: 15777

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: HS21030755
TSR: Sonia West

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----------------------|------------------|-------------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| 1. HS21030755-01 | MW-27R | Groundwater | 15 Mar 2021 11:00 |
| Fluoride by ISE 4500 | | | 22 Mar 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
Samples may be high in salts & Minerals.

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

Relinquished By: [Signature] Date/Time: 3/15/2021 1800

Received By: [Signature] Date/Time: 3/16/21 0930

Cooler ID(s): _____ Temperature(s): 123 3.7'C

RIGHT SOLUTIONS, A MOBILITY PARTNER



Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **16-Mar-21 09:30**

Work Order: **21031596**

Received by: **DS**

Checklist completed by Diane Shaw 17-Mar-21
eSignature Date

Reviewed by: Chad Whelton 17-Mar-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:

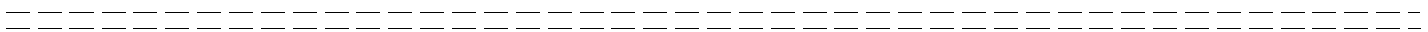
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

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

April 01, 2021

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

Work Order: **HS21030756**

Laboratory Results for: **NRG Limestone - Appendix IV**

Dear Lori Burris,

ALS Environmental received 1 sample(s) on Mar 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 Limestone - Appendix IV
WorkOrder: HS21030756

**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 Limestone - Appendix IV
WorkOrder: HS21030756

**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: 04/01/2021 | | | | |
|---|----------------|--|---|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix IV | | | Laboratory Job Number: HS21030756 | | | | |
| Reviewer Name: Corey Grandits | | | Prep Batch Number(s): 163611,163675,R380031,R380715 | | | | |
| # 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 | | | | |
| | | 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 | | | | 1 |
| | | 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: 04/01/2021 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix IV | | Laboratory Job Number: HS21030756 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 163611,163675,R380031,R380715 | | | | | |
| # 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 | | | 2 |
| 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: 04/01/2021 |
| Project Name: NRG Limestone - Appendix IV | Laboratory Job Number: HS21030756 |
| Reviewer Name: Corey Grandits | Prep Batch Number(s): 163611,163675,R380031,R380715 |

| ER# ⁵ | Description |
|------------------|--|
| 1 | <p>The analyses for Radium-226 and Radium-228 were subcontracted to ALS Environmental in Fort Collins, CO. Report and Laboratory Review Checklist are attached to the final report.</p> <p>The analysis for Fluoride was subcontracted to ALS Environmental in Holland, MI. Report and Laboratory Review Checklist are attached to the final report.</p> |
| 2 | 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 Limestone - Appendix IV
 WorkOrder: HS21030756
 Start Date: 19-Mar-2021

Run ID: ICPMS06_379956
 Instrument: ICPMS06
 Method: SW6020

End Date: 20-Mar-2021

| Sample No. | D/F | Time | FileID | Analytes |
|-------------|-----|-------------------|------------|-------------------------------------|
| ICV | 1 | 19-Mar-2021 10:47 | 018_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV2 | 1 | 19-Mar-2021 10:51 | 020LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV5 | 1 | 19-Mar-2021 10:53 | 021LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICB | 1 | 19-Mar-2021 10:55 | 022_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 19-Mar-2021 10:57 | 023ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 19-Mar-2021 10:59 | 024ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 1 | 1 | 19-Mar-2021 11:05 | 026_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 1 | 1 | 19-Mar-2021 11:06 | 027_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 2 | 1 | 19-Mar-2021 11:31 | 038_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 2 | 1 | 19-Mar-2021 11:33 | 039_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 3 | 1 | 19-Mar-2021 12:07 | 050_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 3 | 1 | 19-Mar-2021 12:09 | 051_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 4 | 1 | 19-Mar-2021 12:47 | 062_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 4 | 1 | 19-Mar-2021 12:49 | 063_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 5 | 1 | 19-Mar-2021 13:31 | 074_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 5 | 1 | 19-Mar-2021 13:33 | 075_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 6 | 1 | 19-Mar-2021 13:56 | 086_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 6 | 1 | 19-Mar-2021 13:58 | 087_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 7 | 1 | 19-Mar-2021 14:20 | 098_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 7 | 1 | 19-Mar-2021 14:22 | 099_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 8 | 1 | 19-Mar-2021 14:56 | 110_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 8 | 1 | 19-Mar-2021 14:58 | 111_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 9 | 1 | 19-Mar-2021 15:15 | 117_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 9 | 1 | 19-Mar-2021 15:17 | 118_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 10 | 1 | 19-Mar-2021 15:41 | 130_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 19-Mar-2021 15:45 | 132LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 19-Mar-2021 15:47 | 133LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 10 | 1 | 19-Mar-2021 15:50 | 134_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 11 | 1 | 19-Mar-2021 16:19 | 144_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 11 | 1 | 19-Mar-2021 16:21 | 145_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 12 | 1 | 19-Mar-2021 16:44 | 156_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 12 | 1 | 19-Mar-2021 16:46 | 157_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 13 | 1 | 19-Mar-2021 16:48 | 158_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 13 | 1 | 19-Mar-2021 17:16 | 169_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 14 | 1 | 19-Mar-2021 17:18 | 170_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 15 | 1 | 19-Mar-2021 17:26 | 172_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 14 | 1 | 19-Mar-2021 17:47 | 182_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 16 | 1 | 19-Mar-2021 17:49 | 183_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 15 | 1 | 19-Mar-2021 20:35 | 190_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 17 | 1 | 19-Mar-2021 20:37 | 191_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 16 | 1 | 19-Mar-2021 20:54 | 199_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 18 | 1 | 19-Mar-2021 20:55 | 200_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 19 | 1 | 19-Mar-2021 21:12 | 208_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 17 | 1 | 19-Mar-2021 21:24 | 210_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 18 | 1 | 19-Mar-2021 21:49 | 222_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 19-Mar-2021 21:53 | 224LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 20 | 1 | 19-Mar-2021 21:55 | 225_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 19-Mar-2021 21:57 | 226ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 19-Mar-2021 21:59 | 227ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 19-Mar-2021 22:03 | 229LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MBLK-163675 | 1 | 19-Mar-2021 22:05 | 230SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756
Start Date: 19-Mar-2021 **End Date:** 20-Mar-2021

Run ID: ICPMS06_379956
Instrument: ICPMS06
Method: SW6020

| Sample No. | D/F | Time | FileID | Analytes |
|------------|-----|-------------------|------------|-------------------------------------|
| LCS-163675 | 1 | 19-Mar-2021 22:07 | 231SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| ZZZZZSD | 5 | 19-Mar-2021 22:11 | 233SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| ZZZZZMS | 1 | 19-Mar-2021 22:13 | 234SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| ZZZZZMSD | 1 | 19-Mar-2021 22:15 | 235SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| ZZZZZPDS | 1 | 19-Mar-2021 22:17 | 236SMPL.d | AS BA BE CD CO CR MO PB SB SE TL |
| CCV 19 | 1 | 19-Mar-2021 22:19 | 237_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 21 | 1 | 19-Mar-2021 22:21 | 238_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 20 | 1 | 19-Mar-2021 22:44 | 249_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 22 | 1 | 19-Mar-2021 22:46 | 250_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-27R | 1 | 19-Mar-2021 23:03 | 258SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 23 | 1 | 19-Mar-2021 23:09 | 261_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 21 | 1 | 19-Mar-2021 23:23 | 263_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 22 | 1 | 19-Mar-2021 23:39 | 271_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 24 | 1 | 19-Mar-2021 23:41 | 272_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 23 | 1 | 20-Mar-2021 00:05 | 283_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 25 | 1 | 20-Mar-2021 00:07 | 284_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 24 | 1 | 20-Mar-2021 00:30 | 295_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 26 | 1 | 20-Mar-2021 00:32 | 296_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 25 | 1 | 20-Mar-2021 00:34 | 297_CC.V.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 27 | 1 | 20-Mar-2021 00:36 | 298_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLCCV2 | 1 | 20-Mar-2021 00:40 | 300LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLCCV5 | 1 | 20-Mar-2021 00:42 | 301LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 20-Mar-2021 00:44 | 302ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 20-Mar-2021 00:46 | 303ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

Run ID:ICPMS06_379956
Instrument:ICPMS06
Method:SW6020

| CCB ID | Date | Seq | D/F | Units |
|---------|-------------------|---------------|------------|---------------------|
| CCB 1 | 19-Mar-2021 11:06 | 6002798 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 1.655 | 0.2 | 2 |
| CCB 2 | 19-Mar-2021 11:33 | 6002800 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 1.682 | 0.2 | 2 |
| CCB 3 | 19-Mar-2021 12:09 | 6002811 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 1.856 | 0.2 | 2 |
| CCB 4 | 19-Mar-2021 12:49 | 6002822 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 1.74 | 0.2 | 2 |
| CCB 5 | 19-Mar-2021 13:33 | 6003293 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 1.889 | 0.2 | 2 |
| CCB 6 | 19-Mar-2021 13:58 | 6003299 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.158 | 0.2 | 2 |
| CCB 7 | 19-Mar-2021 14:22 | 6003345 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.336 | 0.2 | 2 |
| CCB 8 | 19-Mar-2021 14:58 | 6003357 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.236 | 0.2 | 2 |
| CCB 9 | 19-Mar-2021 15:17 | 6003364 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | -0.4 | 0.4 | 2 |
| | Thallium | 2.411 | 0.2 | 2 |
| ICCB 10 | 19-Mar-2021 15:50 | 6003734 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.204 | 0.2 | 2 |
| CCB 11 | 19-Mar-2021 16:21 | 6003745 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.322 | 0.2 | 2 |
| CCB 12 | 19-Mar-2021 16:46 | 6003757 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.271 | 0.2 | 2 |
| CCB 14 | 19-Mar-2021 17:18 | 6003855 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 2.303 | 0.2 | 2 |
| CCB 15 | 19-Mar-2021 17:26 | 6003856 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | | | |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

Run ID: ICPMS06_379956
Instrument: ICPMS06
Method: SW6020

| CCB ID | Date | Seq | D/F | Units | |
|---------|-------------------|---------------|------------|---------------------|---|
| | | Thallium | 2.13 | 0.2 | 2 |
| CCB 16 | 19-Mar-2021 17:49 | 6004374 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.603 | 0.4 | 2 | |
| | Thallium | 0.307 | 0.2 | 2 | |
| CCB 17 | 19-Mar-2021 20:37 | 6004376 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.601 | 0.2 | 2 | |
| CCB 18 | 19-Mar-2021 20:55 | 6004385 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.649 | 0.4 | 2 | |
| | Thallium | 1.675 | 0.2 | 2 | |
| CCB 19 | 19-Mar-2021 21:12 | 6004393 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.722 | 0.2 | 2 | |
| ICCB 20 | 19-Mar-2021 21:55 | 6004442 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 0.233 | 0.2 | 2 | |
| CCB 21 | 19-Mar-2021 22:21 | 6004406 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.537 | 0.4 | 2 | |
| | Thallium | 1.851 | 0.2 | 2 | |
| CCB 22 | 19-Mar-2021 22:46 | 6004418 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.736 | 0.2 | 2 | |
| CCB 23 | 19-Mar-2021 23:09 | 6004429 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.709 | 0.2 | 2 | |
| CCB 24 | 19-Mar-2021 23:41 | 6004485 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.541 | 0.4 | 2 | |
| | Thallium | 2.081 | 0.2 | 2 | |
| CCB 25 | 20-Mar-2021 00:07 | 6004497 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 2.125 | 0.2 | 2 | |
| CCB 26 | 20-Mar-2021 00:32 | 6004509 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 2.082 | 0.2 | 2 | |
| CCB 27 | 20-Mar-2021 00:36 | 6004511 | D/F: 1 | ug/L | |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 2.064 | 0.2 | 2 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
Work Order: HS21030756

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21030756-01 | MW-27R | Groundwater | | 15-Mar-2021 11:00 | 15-Mar-2021 14:36 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-27R
 Collection Date: 15-Mar-2021 11:00

ANALYTICAL REPORT
 WorkOrder:HS21030756
 Lab ID:HS21030756-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020 | | Prep:SW3010A / 19-Mar-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Arsenic | 0.00333 | | 0.000400 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Barium | 0.0560 | | 0.00190 | 0.00400 | mg/L | 1 | 19-Mar-2021 23:03 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 19-Mar-2021 23:03 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 19-Mar-2021 23:03 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Lithium | 0.152 | | 0.00100 | 0.00500 | mg/L | 1 | 19-Mar-2021 23:03 |
| Molybdenum | 0.00208 | J | 0.000600 | 0.00500 | mg/L | 1 | 19-Mar-2021 23:03 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 19-Mar-2021 23:03 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 18-Mar-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 18-Mar-2021 10:44 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 22-Mar-2021 09:21 |
| SUBCONTRACT ANALYSIS - RADIUM 226 | | Method:NA | | | | Analyst: SUBFC | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 01-Apr-2021 09:22 |
| SUBCONTRACT ANALYSIS - RADIUM 228 | | Method:NA | | | | Analyst: SUBFC | |
| Subcontract Analysis | See Attached | | 0 | | NA | 1 | 01-Apr-2021 09:22 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

Batch ID: 163611 **Start Date:** 18 Mar 2021 08:00 **End Date:** 18 Mar 2021 10:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21030756-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Batch ID: 163675 **Start Date:** 19 Mar 2021 12:00 **End Date:** 19 Mar 2021 16:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21030756-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-------------------|----------------------------|----|
| Batch ID: 163611 (0) | | Test Name : MERCURY BY SW7470A | | | Matrix: Groundwater | |
| HS21030756-01 | MW-27R | 15 Mar 2021 11:00 | | 18 Mar 2021 08:00 | 18 Mar 2021 10:44 | 1 |
| Batch ID: 163675 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21030756-01 | MW-27R | 15 Mar 2021 11:00 | | 19 Mar 2021 16:00 | 19 Mar 2021 23:03 | 1 |
| Batch ID: R380031 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21030756-01 | MW-27R | 15 Mar 2021 11:00 | | | 22 Mar 2021 09:21 | 1 |
| Batch ID: R380715 (0) | | Test Name : SUBCONTRACT ANALYSIS - RADIUM 228 | | | Matrix: Groundwater | |
| HS21030756-01 | MW-27R | 15 Mar 2021 11:00 | | | 01 Apr 2021 09:22 | 1 |
| HS21030756-01 | MW-27R | 15 Mar 2021 11:00 | | | 01 Apr 2021 09:22 | 1 |

WorkOrder: HS21030756
 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 | 0.0000840 | 0.0000300 | 0.000200 |

WorkOrder: HS21030756
 InstrumentID: ICPMS06
 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 | 0.000674 | 0.000400 | 0.00200 |
| A | Arsenic | 7440-38-2 | 0.00100 | 0.000980 | 0.000400 | 0.00200 |
| A | Barium | 7440-39-3 | 0.00250 | 0.00234 | 0.00190 | 0.00400 |
| A | Beryllium | 7440-41-7 | 0.000500 | 0.000472 | 0.000200 | 0.00200 |
| A | Cadmium | 7440-43-9 | 0.000500 | 0.000454 | 0.000200 | 0.00200 |
| A | Chromium | 7440-47-3 | 0.00100 | 0.00153 | 0.000400 | 0.00400 |
| A | Cobalt | 7440-48-4 | 0.000500 | 0.000464 | 0.000200 | 0.00500 |
| A | Lead | 7439-92-1 | 0.00100 | 0.000540 | 0.000600 | 0.00200 |
| A | Lithium | 7439-93-2 | 0.00250 | 0.00225 | 0.00100 | 0.00500 |
| A | Molybdenum | 7439-98-7 | 0.00100 | 0.000874 | 0.000600 | 0.00500 |
| A | Selenium | 7782-49-2 | 0.00250 | 0.00233 | 0.00110 | 0.00200 |
| A | Thallium | 7440-28-0 | 0.000500 | 0.000319 | 0.000200 | 0.00200 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

QC BATCH REPORT

| | | |
|-------------------------------|-------------------------|-----------------------------------|
| Batch ID: 163611 (0) | Instrument: HG03 | Method: MERCURY BY SW7470A |
|-------------------------------|-------------------------|-----------------------------------|

| | | | | | | | | | | |
|-------------|-------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MBLK | Sample ID: MBLK-163611 | Units: mg/L | Analysis Date: 18-Mar-2021 10:41 | | | | | | | |
| Client ID: | Run ID: HG03_379871 | SeqNo: 6001691 | PrepDate: 18-Mar-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-163611 | Units: mg/L | Analysis Date: 18-Mar-2021 20:02 | | | | | | | |
| Client ID: | Run ID: HG03_379871 | SeqNo: 6001709 | PrepDate: 18-Mar-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.00508 0.000200 0.005 0 102 80 - 120

| | | | | | | | | | | |
|--------------------------|-----------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MS | Sample ID: HS21030756-01MS | Units: mg/L | Analysis Date: 18-Mar-2021 10:46 | | | | | | | |
| Client ID: MW-27R | Run ID: HG03_379871 | SeqNo: 6001694 | PrepDate: 18-Mar-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.00439 0.000200 0.005 0.000004 87.7 75 - 125

| | | | | | | | | | | |
|--------------------------|------------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MSD | Sample ID: HS21030756-01MSD | Units: mg/L | Analysis Date: 18-Mar-2021 10:56 | | | | | | | |
| Client ID: MW-27R | Run ID: HG03_379871 | SeqNo: 6001697 | PrepDate: 18-Mar-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.00453 0.000200 0.005 0.000004 90.5 75 - 125 0.00439 3.14 20

The following samples were analyzed in this batch: HS21030756-01

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

QC BATCH REPORT

Batch ID: 163675 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

| MBLK | | Sample ID: MBLK-163675 | | Units: mg/L | | Analysis Date: 19-Mar-2021 22:05 | | | |
|-------------|------------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS06_379956 | | SeqNo: 6004398 | | PrepDate: 19-Mar-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-163675 | | Units: mg/L | | Analysis Date: 19-Mar-2021 22:07 | | | |
|------------|---------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS06_379956 | | SeqNo: 6004399 | | PrepDate: 19-Mar-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Antimony | 0.04502 | 0.00200 | 0.05 | 0 | 90.0 | 80 - 120 | | | |
| Arsenic | 0.04509 | 0.00200 | 0.05 | 0 | 90.2 | 80 - 120 | | | |
| Barium | 0.04574 | 0.00400 | 0.05 | 0 | 91.5 | 80 - 120 | | | |
| Beryllium | 0.04619 | 0.00200 | 0.05 | 0 | 92.4 | 80 - 120 | | | |
| Cadmium | 0.04754 | 0.00200 | 0.05 | 0 | 95.1 | 80 - 120 | | | |
| Chromium | 0.04534 | 0.00400 | 0.05 | 0 | 90.7 | 80 - 120 | | | |
| Cobalt | 0.04572 | 0.00500 | 0.05 | 0 | 91.4 | 80 - 120 | | | |
| Lead | 0.04489 | 0.00200 | 0.05 | 0 | 89.8 | 80 - 120 | | | |
| Molybdenum | 0.04502 | 0.00500 | 0.05 | 0 | 90.0 | 80 - 120 | | | |
| Selenium | 0.04855 | 0.00200 | 0.05 | 0 | 97.1 | 80 - 120 | | | |
| Thallium | 0.04818 | 0.00200 | 0.05 | 0 | 96.4 | 80 - 120 | | | |

| LCS | | Sample ID: LCS-163675 | | Units: mg/L | | Analysis Date: 22-Mar-2021 15:46 | | | |
|------------|---------|-------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICPMS04_380076 | | SeqNo: 6005352 | | PrepDate: 19-Mar-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Lithium | 0.09901 | 0.00500 | 0.1 | 0 | 99.0 | 80 - 120 | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

QC BATCH REPORT

Batch ID: 163675 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

| MS | | Sample ID: HS21030390-11MS | | | Units: mg/L | | Analysis Date: 19-Mar-2021 22:13 | | | |
|------------|---------|-----------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ICPMS06_379956 | | | SeqNo: 6004402 | | PrepDate: 19-Mar-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.04244 | 0.00200 | 0.05 | 0.000241 | 84.4 | 80 - 120 | | | | |
| Arsenic | 0.05415 | 0.00200 | 0.05 | 0.01148 | 85.3 | 80 - 120 | | | | |
| Barium | 0.0589 | 0.00400 | 0.05 | 0.01242 | 92.9 | 80 - 120 | | | | |
| Beryllium | 0.06038 | 0.00200 | 0.05 | 0.01524 | 90.3 | 80 - 120 | | | | |
| Cadmium | 0.05748 | 0.00200 | 0.05 | 0.01131 | 92.4 | 80 - 120 | | | | |
| Chromium | 0.04715 | 0.00400 | 0.05 | 0.003921 | 86.5 | 80 - 120 | | | | |
| Cobalt | 0.1991 | 0.00500 | 0.05 | 0.151 | 96.1 | 80 - 120 | | | | |
| Lead | 0.1355 | 0.00200 | 0.05 | 0.08378 | 103 | 80 - 120 | | | | |
| Molybdenum | 0.04524 | 0.00500 | 0.05 | 0.000174 | 90.1 | 80 - 120 | | | | |
| Selenium | 0.07435 | 0.00200 | 0.05 | 0.0288 | 91.1 | 80 - 120 | | | | |
| Thallium | 0.04667 | 0.00200 | 0.05 | 0.001712 | 89.9 | 80 - 120 | | | | |

| MS | | Sample ID: HS21030390-11MS | | | Units: mg/L | | Analysis Date: 22-Mar-2021 15:52 | | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ICPMS04_380076 | | | SeqNo: 6005355 | | PrepDate: 19-Mar-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Lithium | 0.1215 | 0.00500 | 0.1 | 0.02865 | 92.9 | 80 - 120 | | | | |

| MSD | | Sample ID: HS21030390-11MSD | | | Units: mg/L | | Analysis Date: 19-Mar-2021 22:15 | | | |
|------------|---------|------------------------------------|---------|---------------|-----------------------|---------------|---|--------|--------------|------|
| Client ID: | | Run ID: ICPMS06_379956 | | | SeqNo: 6004403 | | PrepDate: 19-Mar-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.04319 | 0.00200 | 0.05 | 0.000241 | 85.9 | 80 - 120 | 0.04244 | 1.75 | 20 | |
| Arsenic | 0.05533 | 0.00200 | 0.05 | 0.01148 | 87.7 | 80 - 120 | 0.05415 | 2.16 | 20 | |
| Barium | 0.05973 | 0.00400 | 0.05 | 0.01242 | 94.6 | 80 - 120 | 0.0589 | 1.41 | 20 | |
| Beryllium | 0.06204 | 0.00200 | 0.05 | 0.01524 | 93.6 | 80 - 120 | 0.06038 | 2.7 | 20 | |
| Cadmium | 0.0584 | 0.00200 | 0.05 | 0.01131 | 94.2 | 80 - 120 | 0.05748 | 1.58 | 20 | |
| Chromium | 0.0472 | 0.00400 | 0.05 | 0.003921 | 86.6 | 80 - 120 | 0.04715 | 0.0954 | 20 | |
| Cobalt | 0.1992 | 0.00500 | 0.05 | 0.151 | 96.3 | 80 - 120 | 0.1991 | 0.0437 | 20 | |
| Lead | 0.1356 | 0.00200 | 0.05 | 0.08378 | 104 | 80 - 120 | 0.1355 | 0.0937 | 20 | |
| Molybdenum | 0.04677 | 0.00500 | 0.05 | 0.000174 | 93.2 | 80 - 120 | 0.04524 | 3.33 | 20 | |
| Selenium | 0.07508 | 0.00200 | 0.05 | 0.0288 | 92.6 | 80 - 120 | 0.07435 | 0.982 | 20 | |
| Thallium | 0.04718 | 0.00200 | 0.05 | 0.001712 | 90.9 | 80 - 120 | 0.04667 | 1.08 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

QC BATCH REPORT

Batch ID: 163675 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MSD Sample ID: **HS21030390-11MSD** Units: **mg/L** Analysis Date: **22-Mar-2021 15:54**
 Client ID: Run ID: **ICPMS04_380076** SeqNo: **6005356** PrepDate: **19-Mar-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | |
|---------|--------|---------|-----|---------|------|----------|--------|-------|----|
| Lithium | 0.1209 | 0.00500 | 0.1 | 0.02865 | 92.2 | 80 - 120 | 0.1215 | 0.502 | 20 |
|---------|--------|---------|-----|---------|------|----------|--------|-------|----|

PDS Sample ID: **HS21030390-11PDS** Units: **mg/L** Analysis Date: **19-Mar-2021 22:17**
 Client ID: Run ID: **ICPMS06_379956** SeqNo: **6004404** PrepDate: **19-Mar-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | |
|------------|---------|---------|-----|----------|------|----------|--|--|--|
| Antimony | 0.0794 | 0.00200 | 0.1 | 0.000241 | 79.2 | 75 - 125 | | | |
| Arsenic | 0.09657 | 0.00200 | 0.1 | 0.01148 | 85.1 | 75 - 125 | | | |
| Barium | 0.1047 | 0.00400 | 0.1 | 0.01242 | 92.2 | 75 - 125 | | | |
| Beryllium | 0.1099 | 0.00200 | 0.1 | 0.01524 | 94.6 | 75 - 125 | | | |
| Cadmium | 0.104 | 0.00200 | 0.1 | 0.01131 | 92.7 | 75 - 125 | | | |
| Chromium | 0.08804 | 0.00400 | 0.1 | 0.003921 | 84.1 | 75 - 125 | | | |
| Cobalt | 0.2327 | 0.00500 | 0.1 | 0.151 | 81.6 | 75 - 125 | | | |
| Lead | 0.1772 | 0.00200 | 0.1 | 0.08378 | 93.4 | 75 - 125 | | | |
| Molybdenum | 0.09265 | 0.00500 | 0.1 | 0.000174 | 92.5 | 75 - 125 | | | |
| Selenium | 0.1202 | 0.00200 | 0.1 | 0.0288 | 91.4 | 75 - 125 | | | |
| Thallium | 0.107 | 0.00200 | 0.1 | 0.001712 | 105 | 75 - 125 | | | |

PDS Sample ID: **HS21030390-11PDS** Units: **mg/L** Analysis Date: **22-Mar-2021 15:56**
 Client ID: Run ID: **ICPMS04_380076** SeqNo: **6005357** PrepDate: **19-Mar-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | |
|---------|-------|---------|-----|---------|------|----------|--|--|--|
| Lithium | 0.128 | 0.00500 | 0.1 | 0.02865 | 99.4 | 70 - 125 | | | |
|---------|-------|---------|-----|---------|------|----------|--|--|--|

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

QC BATCH REPORT

| Batch ID: 163675 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|------------------------|-----------------------------------|-----------------------|------------------------------|----------------------------------|---|---------------|---------------|-------|------------|--|
| SD | Sample ID: HS21030390-11SD | Units: mg/L | | | Analysis Date: 19-Mar-2021 22:11 | | | | | |
| Client ID: | Run ID: ICPMS06_379956 | SeqNo: 6004401 | PrepDate: 19-Mar-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 | | | | | 0.000241 | 0 | 10 | |
| Arsenic | 0.0113 | 0.0100 | | | | | 0.01148 | 1.54 | 10 | |
| Barium | 0.01186 | 0.0200 | | | | | 0.01242 | 0 | 10 J | |
| Beryllium | 0.01534 | 0.0100 | | | | | 0.01524 | 0.676 | 10 | |
| Cadmium | 0.01173 | 0.0100 | | | | | 0.01131 | 3.72 | 10 | |
| Chromium | 0.003989 | 0.0200 | | | | | 0.003921 | 0 | 10 J | |
| Cobalt | 0.1522 | 0.0250 | | | | | 0.151 | 0.759 | 10 | |
| Lead | 0.08171 | 0.0100 | | | | | 0.08378 | 2.47 | 10 | |
| Molybdenum | < 0.00300 | 0.0250 | | | | | 0.000174 | 0 | 10 | |
| Selenium | 0.02974 | 0.0100 | | | | | 0.0288 | 3.27 | 10 | |
| Thallium | 0.001259 | 0.0100 | | | | | 0.001712 | 0 | 10 J | |

| SD | Sample ID: HS21030390-11SD | Units: mg/L | | | Analysis Date: 22-Mar-2021 15:50 | | | | |
|------------|-----------------------------------|-----------------------|------------------------------|---------------|---|---------------|---------------|----|------------|
| Client ID: | Run ID: ICPMS04_380076 | SeqNo: 6005354 | PrepDate: 19-Mar-2021 | DF: 5 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | Limit Qual |
| Lithium | 0.02664 | 0.0250 | | | | | 0.02865 | 7 | 10 |

The following samples were analyzed in this batch: HS21030756-01

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21030756

**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 Limestone - Appendix IV
Work Order: HS21030756

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|----------------------|--------|--------------|
| HS21030756-01 | MW-27R | Login | 3/15/2021 3:40:59 PM | PMG | Disposed |
| HS21030756-01 | MW-27R | Login | 3/15/2021 3:40:59 PM | PMG | Sub |
| HS21030756-01 | MW-27R | Login | 3/15/2021 3:40:59 PM | PMG | Sub |
| HS21030756-01 | MW-27R | Login | 3/15/2021 3:40:59 PM | PMG | Sub |

Sample Receipt Checklist

Work Order ID: HS21030756

Date/Time Received: 15-Mar-2021 14:36

Client Name: TRC-HOU

Received by: Paresh M. Giga

| | | | |
|----------------------------------|-------------------|---------------------------------|-------------------|
| Completed By: /S/ Paresh M. Giga | 15-Mar-2021 15:48 | Reviewed by: /S/ Corey Grandits | 16-Mar-2021 10:58 |
| eSignature | Date/Time | eSignature | Date/Time |

Matrices: **GW**

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:195798
- 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): | 0.8C U/c | IR31 |
| Cooler(s)/Kit(s): | 46052 | |
| Date/Time sample(s) sent to storage: | 3/15/2021 15:55 | |
| 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:



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

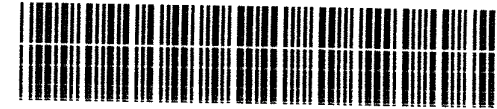
Chain of Custody Form

Page 1 of 1

COC ID: 195798

HS21030756

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:


| Customer Information | | Project Information | |
|----------------------|--------------------------------|---------------------|------------------------------------|
| Purchase Order | 298367.1000 | Project Name | NRG Limestone- Appendix IV |
| 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 | 10550 Richmond Ave., Suite 210 |
| City/State/Zip | Houston, TX 77042 | City/State/Zip | Houston TX 77042 |
| 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-27R | 3/15/21 | 1100 | GW | 2,8 | | X | X | X | X | X | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|--|-------------------------|--|---|--|-----------------------------|---|--|-------------------|--|
| Sampler(s) Please Print & Sign <i>Rudy Mueller</i> | | Shipment Method <i>Hand Delivered</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>Rudy Mueller</i> | Date: <i>3.15.21</i> | Time: <i>1436</i> | Received by: | Notes: NRG Limestone-PRIVILEGED & CONFIDENTIAL | | | | | |
| Relinquished by: | Date: | Time: | Received by (Laboratory): <i>[Signature]</i> | Cooler ID: <i>46052</i> | Cooler Temp.: <i>4°C</i> | QC Package: (Check One Box Below) | | | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): <i>[Signature]</i> | | | <input type="checkbox"/> Level II Std QC | <input checked="" type="checkbox"/> TNRP 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/Rw Date | <input type="checkbox"/> TNRP Level IV | | |
| | | | | | | <input type="checkbox"/> Level IV SWB46/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.

Copyright 2011 by ALS Environmental.

| | | |
|---|--|----------------------|
|  | ALS | CUS |
| | 10450 Stancliff Rd., Suite 210 | Date: <u>3.15.21</u> |
| | Houston, Texas 77099 | Name: <u>Rudy</u> |
| | Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Company: _____ |

1652

| | |
|------------------|------------------------|
| TODY SEAL | Seal Broken By: _____ |
| Time: _____ | Date: <u>3/15/2021</u> |

Mulla



Wednesday, March 31, 2021

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

Re: ALS Workorder: 2103310
Project Name:
Project Number: HS21030756

Dear Mr. Grandits:

One water sample was received from ALS Environmental, on 3/16/2021. The sample was 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. 2103310 and laboratory batch no(s). RE210318-8-3 and RA210322-2-2 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.

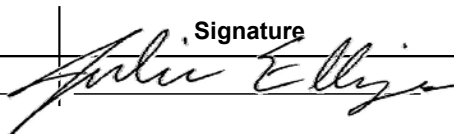
R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

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 |  | ES Manager | 3-31-2021 |

Laboratory Review Checklist: Reportable Data - Page 2 of 4

| Laboratory Name: ALS Laboratory Group | | LRC Date: 3-31-2021 | | | | | |
|---------------------------------------|----------------|---|-----|----|-----------------|-----------------|------------------|
| Project Name: | | Laboratory Job Number: 2103310 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210318-8-3, RA210322-2-2 | | | | | |
| # 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: 3-31-2021 | | | | | |
|---------------------------------------|----------------|---|-----|----|-----------------|-----------------|------------------|
| Project Name: | | Laboratory Job Number: 2103310 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210318-8-3, RA210322-2-2 | | | | | |
| # 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: 3-31-2021 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: | | Laboratory Job Number: 2103310 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210318-8-3, RA210322-2-2 | | | | | |
| # 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> | | | | | | | |



2103310

Radium-228:

The sample was 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 sample was 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: 2103310

Client Name: ALS Environmental

Client Project Name:

Client Project Number: HS21030756

Client PO Number: 10-15779

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| MW-27R | 2103310-1 | | WATER | 15-Mar-21 | 11:00 |



210330

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: 15779

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: HS21030756
TSR: Sonia West

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--|------------------|-------------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| 1. HS21030756-01 | MW-27R | Groundwater | 15 Mar 2021 11:00 |
| Report Combined RA 226/228 Value &the 2 Individual | | | 05 Apr 2021 |
| Report Combined RA 226/228 Value &the 2 Individual | | | 05 Apr 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

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

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

Date/Time: 3/15/2021 1800
Date/Time: 3/16/21 1215
Temperature(s): _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: **ALS Houston** Workorder No: **2103310**
 Project Manager: **JME** Initials: **TEM** Date: **3/16/21**

| | | | |
|--|--|---|---|
| 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 checked="" type="checkbox"/> YES | <input type="checkbox"/> NO |
| 15. Were cooler temperatures measured at 0.1 - 6.0°C? | IR gun used: #3 #5 | <input type="checkbox"/> Rad Only | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |

Cooler #: **1**
 Temperature (°C): **0.5**
 # of custody seals on cooler: **2**
 External uR/hr reading: **10**
 Background uR/hr reading: **10**


Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008) N/A YES NO

* Please provide details below for 'NO' responses in gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

(This area contains a large gray box for providing details for 'NO' responses.)

All client bottle ID's vs ALS lab ID's double-checked by: **TEM**

If applicable, was the client contacted? YES NO Contact Name: _____ Date: _____

Project Manager Signature / Date:  **3/19/21**

Must Deliver Next Business Day
Time and Tempature Sensitive!



Part # 159488-434 RIT2 EXP 10/21 •

ORIGIN ID:SGRA (281) 530-5656
CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON, TX 77099
UNITED STATES US

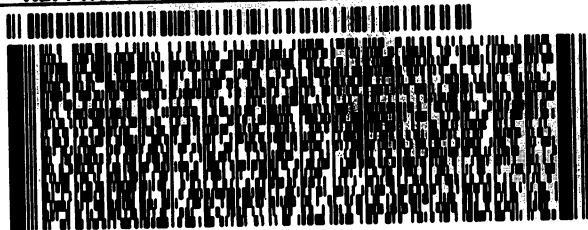
SHIP DATE: 15MAR21
ACTWGT: 40.05 LB
CAD: 02212477/CAFE3409
DIMS: 26x14x14 IN
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL
225 COMMERCE DRIVE

10-2
0.5

FORT COLLINS CO 80524

(970) 490-1511
REF: HS21030295/749/756 - CG/BF



FedEx
Express



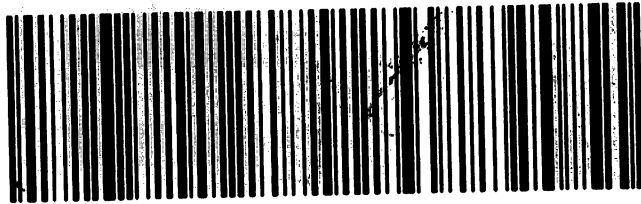
AN1001210011007

TRK# 9473 0841 2187
0201

TUE - 16 MAR 4:30P
STANDARD OVERNIGHT

AG FTCA

80524
CO-US DEN



Client: ALS Environmental
 Project: HS21030756
 Sample ID: MW-27R
 Legal Location:
 Collection Date: 3/15/2021 11:00

Date: 31-Mar-21
 Work Order: 2103310
 Lab ID: 2103310-1
 Matrix: WATER
 Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|----------------|------|--------------|-------|-----------------|-----------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | | | | |
| Ra-226 | ND (+/- 0.18) | U | 0.38 | pCi/l | NA | 3/29/2021 11:24 |
| Carr: BARIUM | 98.5 | | 40-110 | %REC | DL = NA | 3/29/2021 11:24 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | | | | | | |
| | 2.9 (+/- 0) | | 0.81 | pCi/l | NA | 3/29/2021 09:30 |
| Ra-228 | 2.9 (+/- 0.83) | | 0.81 | pCi/l | NA | 3/28/2021 09:30 |
| Carr: BARIUM | 97.6 | | 40-110 | %REC | DL = NA | 3/28/2021 09:30 |

Client: ALS Environmental
Project: HS21030756
Sample ID: MW-27R
Legal Location:
Collection Date: 3/15/2021 11:00

Date: 31-Mar-21
Work Order: 2103310
Lab ID: 2103310-1
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------|--------|------|--------------|-------|-----------------|---------------|
|----------|--------|------|--------------|-------|-----------------|---------------|

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: 3/31/2021 10:27

Client: ALS Environmental
 Work Order: 2103310
 Project: HS21030756

QC BATCH REPORT

Batch ID: **RE210318-8-3** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

| LCS | | Sample ID: RE210318-8 | | | Units: pCi/l | | Analysis Date: 3/29/2021 12:00 | | | | |
|--------------|-------------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210318-8A | | | | | Prep Date: 3/18/2021 | | DF: NA | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 40 (+/- 10) | 0 | 46.8 | | 85.9 | 67-120 | | | | | P,Y1 |
| Carr: BARIUM | 15880 | | 15870 | | 100 | 40-110 | | | | | Y1 |

| LCSD | | Sample ID: RE210318-8 | | | Units: pCi/l | | Analysis Date: 3/29/2021 12:00 | | | | |
|--------------|-------------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210318-8A | | | | | Prep Date: 3/18/2021 | | DF: NA | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 48 (+/- 12) | 0 | 46.8 | | 103 | 67-120 | | 40 | 0.51 | 2.13 | P,Y1 |
| Carr: BARIUM | 15880 | | 15870 | | 100 | 40-110 | | 15880 | | | Y1 |

| MB | | Sample ID: RE210318-8 | | | Units: pCi/l | | Analysis Date: 3/29/2021 11:24 | | | | |
|--------------|--------|------------------------------|---------|---------------|---------------------|---------------|---------------------------------------|---------------|---------------|-----------|------|
| Client ID: | | Run ID: RE210318-8A | | | | | Prep Date: 3/18/2021 | | 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 | 0.145 | | | | | | | | | Y1,U |
| Carr: BARIUM | 16050 | | 15870 | | 101 | 40-110 | | | | | Y1 |

The following samples were analyzed in this batch:

Client: ALS Environmental
 Work Order: 2103310
 Project: HS21030756

QC BATCH REPORT

Batch ID: RA210322-2-2 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

| LCS | | Sample ID: RA210322-2 | | Units: ug | | | Analysis Date: 3/28/2021 09:30 | | | | |
|--------------|----------------|-----------------------|---------|---------------|----------------------|---------------|--------------------------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RA210322-2A | | | Prep Date: 3/22/2021 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Carr: BARIUM | 30910 | | 31390 | | 98.5 | 40-110 | | | | | |
| Ra-228 | 24.8 (+/- 5.8) | 0.7 | 22.33 | | 111 | 70-130 | | | | | P |

| LCSD | | Sample ID: RA210322-2 | | Units: ug | | | Analysis Date: 3/28/2021 09:30 | | | | |
|--------------|----------------|-----------------------|---------|---------------|----------------------|---------------|--------------------------------|---------------|------|-----------|------|
| Client ID: | | Run ID: RA210322-2A | | | Prep Date: 3/22/2021 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Carr: BARIUM | 30580 | | 31400 | | 97.4 | 40-110 | | 30910 | | | |
| Ra-228 | 22.7 (+/- 5.3) | 0.8 | 22.33 | | 102 | 70-130 | | 24.8 | 0.26 | 2.13 | P |

| MB | | Sample ID: RA210322-2 | | Units: ug | | | Analysis Date: 3/28/2021 09:30 | | | | |
|--------------|--------|-----------------------|---------|---------------|----------------------|---------------|--------------------------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RA210322-2A | | | Prep Date: 3/22/2021 | | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Carr: BARIUM | 31080 | | 31400 | | 99 | 40-110 | | | | | |
| Ra-228 | ND | 0.7 | | | | | | | | | U |

The following samples were analyzed in this batch:



22-Mar-2021

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

Re: **HS21030756**

Work Order: **21031597**

Dear Corey,

ALS Environmental received 1 sample on 16-Mar-2021 09:30 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 13.

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
Privileged and Confidential
Page 44 of 56

Client: ALS Environmental
Project: HS21030756
Work Order: 21031597

**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_210319A | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21031596, 21031597 | | | | | |
| Analyst Name: QN | | Date 3/19/21 | Reviewer Name: JB | | Date: 3/19/21 | | |
| | 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: HS21030756
Work Order: 21031597

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21031597-01 | HS21030756-01 | Groundwater | MW-27R | 3/15/2021 11:00 | 3/16/2021 09:30 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21030756
WorkOrder: 21031597

**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: 21031597
Client: ALS Environmental
Project: HS21030756

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|--|------------------|-------------|-----------------------|-----------|-----------|--------------------|
| Batch ID <u>R312212</u> Test Name: <u>Fluoride</u> | | | | | | |
| 21031597-01A | HS21030756-01 | Groundwater | 3/15/2021 11:00:00 AM | | | 3/19/2021 12:59 PM |

ALS Group, USA

Date: 22-Mar-21

Client: ALS Environmental
Project: HS21030756
Sample ID: HS21030756-01
Collection Date: 3/15/2021 11:00 AM

Work Order: 21031597
Lab ID: 21031597-01
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 | 3/19/2021 12:59 |

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

WorkOrder: 21031597
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: 21031597
 Project: HS21030756

QC BATCH REPORT

Batch ID: **R312212** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| | | | | | | | | | | |
|-------------|--------|--------------------------------------|---------|-----------------------|------|--------------------|---------------|--|-----------|------|
| MBLK | | Sample ID: MB-R312212-R312212 | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210319A | | SeqNo: 7229974 | | 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-R312212-R312212 | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210319A | | SeqNo: 7229975 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.81 0.10 5 0 96.2 80-120 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|-----------------------|------|--------------------|---------------|--|-----------|------|
| MS | | Sample ID: 21031403-01G MS | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210319A | | SeqNo: 7229981 | | 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 0.08 98 75-125 0

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|-----------------------|------|--------------------|---------------|--|-----------|------|
| MSD | | Sample ID: 21031403-01G MSD | | | | Units: mg/L | | Analysis Date: 3/19/2021 12:59 PM | | |
| Client ID: | | Run ID: TITRATOR 1_210319A | | SeqNo: 7229982 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | MLQ | 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 4.98 0.401 20

The following samples were analyzed in this batch: 21031597-01A

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

21031597



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: 15778

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: HS21030756
TSR: Sonia West

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---------------------------------|------------------|-------------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| 1. HS21030756-01 | MW-27R | Groundwater | 15 Mar 2021 11:00 |
| Fluoride by ISE 4500. Equis EDD | | | 22 Mar 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
Samples may be high in salts & Minerals.
Shared container with HS21030755.
Import data from HS21030755

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

Relinquished By: [Signature] Date/Time: 3/15/2021 1800
 Received By: [Signature] Date/Time: 3/16/21 0930
 Cooler ID(s): _____ Temperature(s): IRB 3.2°C

ALS GLOBAL PARTNER

Q

Sample Receipt Checklist

Client Name: ALS - HOUSTON

Date/Time Received: 16-Mar-21 09:30

Work Order: 21031597

Received by: DS

Checklist completed by Diane Shaw 17-Mar-21
eSignature Date

Reviewed by: Chad Whelton 17-Mar-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): 3.7/4.7 c IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 3/17/2021 11:24:05 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: **HS21040187**

Laboratory Results for: **NRG Limestone - Appendix III**

Dear Lori Burris,

ALS Environmental received 11 sample(s) on Apr 06, 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 Limestone - Appendix III
WorkOrder: HS21040187

**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 Limestone - Appendix III
WorkOrder: HS21040187

**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 Limestone - Appendix III | | Laboratory Job Number: HS21040187 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 164464,R381477,R381481,R381484,R381543,R381609 | | | | | |
| # 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 | | | 1 |
| | | 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 | | | 2 |
| | | 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 | | | | 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 Limestone - Appendix III | | Laboratory Job Number: HS21040187 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 164464,R381477,R381481,R381484,R381543,R381609 | | | | | |
| # 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 | | | | |
| 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: 06/01/2021 |
| Project Name: NRG Limestone - Appendix III | Laboratory Job Number: HS21040187 |
| Reviewer Name: Corey Grandits | Prep Batch Number(s): 164464,R381477,R381481,R381484,R381543,R381609 |

| ER# ⁵ | Description |
|------------------|--|
| 1 | <p>Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier. The temperature at the time of pH is reported.</p> <p>Please note that all pH results are already normalized to a temperature of 25 degrees C.</p> |
| 2 | <p>Batch 164464, Metals Method SW6020, sample MW-02, MS recovered outside the control limit for Calcium, however the result in the parent sample is greater than 4x the spike amount.</p> <p>Batch R381543, Anions Method E300, sample HS21031602-01, MS and MSD were performed on unrelated sample.</p> |
| 3 | <p>The Fluoride analysis was subcontract to ALS Holland, MI. Final report attached.</p> |
| 4 | <p>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.
 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 Limestone - Appendix III
WorkOrder: HS21040187
Start Date: 12-Apr-2021 **End Date:** 13-Apr-2021

Run ID: ICPMS06_381382
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|----------|
| ICV | 1 | 12-Apr-2021 11:09 | 017_ICV.d | B CA |
| ICB | 1 | 12-Apr-2021 11:11 | 018_ICB.d | B CA |
| LLICV2 | 1 | 12-Apr-2021 11:13 | 019LCV2.d | B CA |
| LLICV5 | 1 | 12-Apr-2021 11:15 | 020LCV5.d | B CA |
| ICSA | 1 | 12-Apr-2021 11:18 | 021ICSA.d | B CA |
| ICSAB | 1 | 12-Apr-2021 11:20 | 022ICSB.d | B CA |
| CCB 1 | 1 | 12-Apr-2021 11:46 | 032_CCB.d | B CA |
| CCV 1 | 1 | 12-Apr-2021 11:48 | 033_CCV.d | B CA |
| CCV 2 | 1 | 12-Apr-2021 12:15 | 044_CCV.d | B CA |
| CCB 2 | 1 | 12-Apr-2021 12:17 | 045_CCB.d | B CA |
| CCV 3 | 1 | 12-Apr-2021 12:41 | 056_CCV.d | B CA |
| CCB 3 | 1 | 12-Apr-2021 12:43 | 057_CCB.d | B CA |
| CCB 4 | 1 | 12-Apr-2021 13:04 | 068_CCB.d | B CA |
| CCV 4 | 1 | 12-Apr-2021 13:06 | 069_CCV.d | B CA |
| CCV 5 | 1 | 12-Apr-2021 13:28 | 080_CCV.d | B CA |
| CCB 5 | 1 | 12-Apr-2021 13:30 | 081_CCB.d | B CA |
| CCB 6 | 1 | 12-Apr-2021 14:21 | 093_CCB.d | B CA |
| CCV 6 | 1 | 12-Apr-2021 14:23 | 094_CCV.d | B CA |
| CCB 7 | 1 | 12-Apr-2021 14:47 | 106_CCB.d | B CA |
| CCV 7 | 1 | 12-Apr-2021 14:49 | 107_CCV.d | B CA |
| CCB 8 | 1 | 12-Apr-2021 15:15 | 119_CCB.d | B CA |
| CCV 8 | 1 | 12-Apr-2021 15:17 | 120_CCV.d | B CA |
| CCB 9 | 1 | 12-Apr-2021 15:33 | 128_CCB.d | B CA |
| CCV 9 | 1 | 12-Apr-2021 15:35 | 129_CCV.d | B CA |
| ICCV 10 | 1 | 12-Apr-2021 15:57 | 140_ICV.d | B CA |
| ICCB 10 | 1 | 12-Apr-2021 15:59 | 141_ICB.d | B CA |
| LLICCV2 | 1 | 12-Apr-2021 16:01 | 142LCV2.d | B CA |
| LLICCV5 | 1 | 12-Apr-2021 16:03 | 143LCV5.d | B CA |
| MBLK-164464 | 1 | 12-Apr-2021 16:09 | 144SMPL.d | B CA |
| LCS-164464 | 1 | 12-Apr-2021 16:11 | 145SMPL.d | B CA |
| MW-02 | 1 | 12-Apr-2021 16:13 | 146SMPL.d | B |
| MW-02SD | 5 | 12-Apr-2021 16:15 | 147SMPL.d | B |
| MW-02MS | 1 | 12-Apr-2021 16:17 | 148SMPL.d | B CA |
| MW-02MSD | 1 | 12-Apr-2021 16:19 | 149SMPL.d | B CA |
| MW-02PDS | 1 | 12-Apr-2021 16:21 | 150SMPL.d | |
| CCV 11 | 1 | 12-Apr-2021 16:25 | 152_CCV.d | B CA |
| CCB 11 | 1 | 12-Apr-2021 16:27 | 153_CCB.d | B CA |
| MW-01 | 1 | 12-Apr-2021 16:29 | 154SMPL.d | B CA |
| MW-17 | 1 | 12-Apr-2021 16:31 | 155SMPL.d | B CA |
| MW-19 | 1 | 12-Apr-2021 16:33 | 156SMPL.d | B CA |
| MW-20 | 1 | 12-Apr-2021 16:35 | 157SMPL.d | B CA |
| MW-21 | 1 | 12-Apr-2021 16:39 | 159SMPL.d | B CA |
| MW-22 | 1 | 12-Apr-2021 16:41 | 160SMPL.d | B CA |
| MW-27R | 1 | 12-Apr-2021 16:43 | 161SMPL.d | B |
| MW-28 | 1 | 12-Apr-2021 16:45 | 162SMPL.d | B |
| CCV 12 | 1 | 12-Apr-2021 16:49 | 164_CCV.d | B CA |
| CCB 12 | 1 | 12-Apr-2021 16:51 | 165_CCB.d | B CA |
| DUP-01 | 1 | 12-Apr-2021 16:56 | 167SMPL.d | B CA |
| FB-01 | 1 | 12-Apr-2021 16:58 | 168SMPL.d | B CA |
| CCV 13 | 1 | 12-Apr-2021 17:14 | 176_CCV.d | B CA |
| CCB 13 | 1 | 12-Apr-2021 17:16 | 177_CCB.d | B CA |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187
Start Date: 12-Apr-2021 **End Date:** 13-Apr-2021

Run ID: ICPMS06_381382
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analyses |
|------------|-----|-------------------|-----------|----------|
| CCV 14 | 1 | 12-Apr-2021 17:46 | 188_CCV.d | B CA |
| CCB 14 | 1 | 12-Apr-2021 17:48 | 189_CCB.d | B CA |
| CCV 15 | 1 | 12-Apr-2021 18:05 | 197_CCV.d | B CA |
| CCB 15 | 1 | 12-Apr-2021 18:06 | 198_CCB.d | B CA |
| MW-02 | 20 | 12-Apr-2021 18:11 | 200SMPL.d | CA |
| CCV 16 | 1 | 12-Apr-2021 18:31 | 210_CCV.d | B CA |
| CCB 16 | 1 | 12-Apr-2021 18:33 | 211_CCB.d | B CA |
| CCV 17 | 1 | 12-Apr-2021 19:59 | 215_CCV.d | B CA |
| CCB 17 | 1 | 12-Apr-2021 20:01 | 216_CCB.d | B CA |
| CCV 18 | 1 | 12-Apr-2021 20:24 | 227_CCV.d | B CA |
| CCB 18 | 1 | 12-Apr-2021 20:26 | 228_CCB.d | B CA |
| CCV 19 | 1 | 12-Apr-2021 20:59 | 237_CCV.d | B CA |
| CCB 19 | 1 | 12-Apr-2021 21:01 | 238_CCB.d | B CA |
| CCV 20 | 1 | 12-Apr-2021 21:21 | 248_CCV.d | B CA |
| CCB 20 | 1 | 12-Apr-2021 21:23 | 249_CCB.d | B CA |
| CCV 21 | 1 | 12-Apr-2021 21:42 | 258_CCV.d | B CA |
| CCB 21 | 1 | 12-Apr-2021 21:44 | 259_CCB.d | B CA |
| CCV 22 | 1 | 12-Apr-2021 21:56 | 265_CCV.d | B CA |
| CCB 22 | 1 | 12-Apr-2021 21:58 | 266_CCB.d | B CA |
| CCV 23 | 1 | 12-Apr-2021 22:12 | 273_CCV.d | B CA |
| CCB 23 | 1 | 12-Apr-2021 22:14 | 274_CCB.d | B CA |
| CCV 24 | 1 | 12-Apr-2021 22:28 | 281_CCV.d | B CA |
| CCB 24 | 1 | 12-Apr-2021 22:30 | 282_CCB.d | B CA |
| ICCV 25 | 1 | 12-Apr-2021 23:26 | 308_ICV.d | B CA |
| LLICCV5 | 1 | 12-Apr-2021 23:28 | 309LCV5.d | B CA |
| LLICCV2 | 1 | 12-Apr-2021 23:30 | 310LCV2.d | B CA |
| ICCB 25 | 1 | 12-Apr-2021 23:32 | 311_ICB.d | B CA |
| ICSA | 1 | 12-Apr-2021 23:37 | 313ICSA.d | B CA |
| ICSAB | 1 | 12-Apr-2021 23:39 | 314ICSB.d | B CA |
| CCV 26 | 1 | 12-Apr-2021 23:47 | 318_CCV.d | B CA |
| CCB 26 | 1 | 12-Apr-2021 23:49 | 319_CCB.d | B CA |
| CCV 27 | 1 | 13-Apr-2021 00:02 | 325_CCV.d | B CA |
| CCB 27 | 1 | 13-Apr-2021 00:03 | 326_CCB.d | B CA |
| CCV 28 | 1 | 13-Apr-2021 00:20 | 334_CCV.d | B CA |
| CCB 28 | 1 | 13-Apr-2021 00:22 | 335_CCB.d | B CA |
| CCV 29 | 1 | 13-Apr-2021 00:42 | 345_CCV.d | B CA |
| CCB 29 | 1 | 13-Apr-2021 00:44 | 346_CCB.d | B CA |
| CCV 30 | 1 | 13-Apr-2021 01:03 | 355_CCV.d | B CA |
| CCB 30 | 1 | 13-Apr-2021 01:05 | 356_CCB.d | B CA |
| CCV 31 | 1 | 13-Apr-2021 01:21 | 364_CCV.d | B CA |
| CCB 31 | 1 | 13-Apr-2021 01:23 | 365_CCB.d | B CA |
| CCV 32 | 1 | 13-Apr-2021 01:40 | 373_CCV.d | B CA |
| CCB 32 | 1 | 13-Apr-2021 01:42 | 374_CCB.d | B CA |
| CCV 33 | 1 | 13-Apr-2021 02:00 | 383_CCV.d | B CA |
| CCB 33 | 1 | 13-Apr-2021 02:02 | 384_CCB.d | B CA |
| LLCCV2 | 1 | 13-Apr-2021 02:06 | 386LCV2.d | B CA |
| LLCCV5 | 1 | 13-Apr-2021 02:08 | 387LCV5.d | B CA |
| ICSA | 1 | 13-Apr-2021 02:10 | 388ICSA.d | B CA |
| ICSAB | 1 | 13-Apr-2021 02:12 | 389ICSB.d | B CA |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

Run ID:ICPMS06_381382
Instrument:ICPMS06
Method:SW6020A

| ICB | Date: 12-Apr-2021 11:11 | Seq: 6036124 | D/F: 1 | Units: ug/L |
|----------------|-------------------------|---------------|------------|---------------------|
| Analyte | | Result | MDL | Report Limit |
| | Boron | 14.97 | 11 | 20 |
| CCB 1 | Date: 12-Apr-2021 11:46 | Seq: 6036136 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 14.02 | 11 | 20 |
| CCB 2 | Date: 12-Apr-2021 12:17 | Seq: 6036396 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 12.39 | 11 | 20 |
| | Calcium | -34.95 | 34 | 500 |
| CCB 3 | Date: 12-Apr-2021 12:43 | Seq: 6036687 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 11.84 | 11 | 20 |
| | Calcium | -39.78 | 34 | 500 |
| CCB 4 | Date: 12-Apr-2021 13:04 | Seq: 6036679 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Calcium | -48.02 | 34 | 500 |
| CCB 5 | Date: 12-Apr-2021 13:30 | Seq: 6036769 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Calcium | -45.23 | 34 | 500 |
| CCB 6 | Date: 12-Apr-2021 14:21 | Seq: 6036850 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 19.19 | 11 | 20 |
| | Calcium | -52.69 | 34 | 500 |
| CCB 7 | Date: 12-Apr-2021 14:47 | Seq: 6036863 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 34.72 | 11 | 20 |
| | Calcium | -60.15 | 34 | 500 |
| CCB 8 | Date: 12-Apr-2021 15:15 | Seq: 6037044 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 14.2 | 11 | 20 |
| | Calcium | -56.24 | 34 | 500 |
| CCB 9 | Date: 12-Apr-2021 15:33 | Seq: 6037053 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 14.19 | 11 | 20 |
| | Calcium | -62.36 | 34 | 500 |
| ICCB 10 | Date: 12-Apr-2021 15:59 | Seq: 6037120 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 14.79 | 11 | 20 |
| CCB 11 | Date: 12-Apr-2021 16:27 | Seq: 6037132 | D/F: 1 | Units: ug/L |
| Analyte | | Result | MDL | Report Limit |
| | Boron | 12.68 | 11 | 20 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

Run ID:ICPMS06_381382
Instrument:ICPMS06
Method:SW6020A

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 13 | 12-Apr-2021 17:16 | 6037229 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 11.53 | 11 | 20 |
| CCB 18 | 12-Apr-2021 20:26 | 6037505 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 30.54 | 11 | 20 |
| CCB 19 | 12-Apr-2021 21:01 | 6037515 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 11.1 | 11 | 20 |
| CCB 20 | 12-Apr-2021 21:23 | 6037526 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 12.33 | 11 | 20 |
| CCB 31 | 13-Apr-2021 01:23 | 6037644 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 14.34 | 11 | 20 |
| CCB 32 | 13-Apr-2021 01:42 | 6037653 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 18.64 | 11 | 20 |
| CCB 33 | 13-Apr-2021 02:02 | 6037670 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 13.5 | 11 | 20 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
Work Order: HS21040187

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21040187-01 | MW-01 | Groundwater | | 05-Apr-2021 14:45 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-02 | MW-02 | Groundwater | | 05-Apr-2021 13:25 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-03 | MW-17 | Groundwater | | 05-Apr-2021 15:35 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-04 | MW-19 | Groundwater | | 05-Apr-2021 12:10 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-05 | MW-20 | Groundwater | | 05-Apr-2021 11:20 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-06 | MW-21 | Groundwater | | 05-Apr-2021 10:30 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-07 | MW-22 | Groundwater | | 05-Apr-2021 09:40 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-08 | MW-27R | Groundwater | | 05-Apr-2021 16:35 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-09 | MW-28 | Groundwater | | 05-Apr-2021 17:25 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-10 | DUP-01 | Groundwater | | 05-Apr-2021 10:00 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040187-11 | FB-01 | Groundwater | | 05-Apr-2021 12:40 | 06-Apr-2021 08:20 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-01
 Collection Date: 05-Apr-2021 14:45

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|--------------------------|--------|----------------------------|----------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.0331 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:29 |
| Calcium | 49.7 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:29 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 290 | | 2.00 | 5.00 | mg/L | 10 | 12-Apr-2021 19:37 |
| Sulfate | < 0.200 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 19:18 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 912 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| PH BY SM4500H+ B | | Method:SM4500H+ B | | | | Analyst: JAC | |
| pH | 3.49 | H | 0.100 | 0.100 | pH Units | 1 | 13-Apr-2021 14:02 |
| Temp Deg C @pH | 21.0 | H | 0 | 0 | °C | 1 | 13-Apr-2021 14:02 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-02
 Collection Date: 05-Apr-2021 13:25

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-02
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.0401 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:13 |
| Calcium | 164 | | 0.680 | 10.0 | mg/L | 20 | 12-Apr-2021 18:11 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 340 | | 2.00 | 5.00 | mg/L | 10 | 12-Apr-2021 19:55 |
| Sulfate | 660 | | 2.00 | 5.00 | mg/L | 10 | 12-Apr-2021 19:55 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 1,610 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-17
 Collection Date: 05-Apr-2021 15:35

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-03
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.0258 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:31 |
| Calcium | 3.12 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:31 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 9.81 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 20:50 |
| Sulfate | 8.33 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 20:50 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 140 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-19
 Collection Date: 05-Apr-2021 12:10

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-04
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.0434 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:33 |
| Calcium | 33.8 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:33 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 47.4 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 21:08 |
| Sulfate | 91.5 | | 2.00 | 5.00 | mg/L | 10 | 13-Apr-2021 11:17 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 350 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-20
 Collection Date: 05-Apr-2021 11:20

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-05
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD |
| Boron | 0.0457 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:35 |
| Calcium | 36.3 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:35 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 18.9 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 21:27 |
| Sulfate | 80.7 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 21:27 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: KAH |
| Total Dissolved Solids (Residue, Filterable) | 416 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-21
 Collection Date: 05-Apr-2021 10:30

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-06
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD |
| Boron | 0.594 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:39 |
| Calcium | 84.8 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:39 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 42.8 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 21:45 |
| Sulfate | 425 | | 2.00 | 5.00 | mg/L | 10 | 13-Apr-2021 11:35 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: KAH |
| Total Dissolved Solids (Residue, Filterable) | 770 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-22
 Collection Date: 05-Apr-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-07
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.0491 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:41 |
| Calcium | 53.6 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:41 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 43.0 | | 0.200 | 0.500 | mg/L | 1 | 12-Apr-2021 22:04 |
| Sulfate | 99.6 | | 2.00 | 5.00 | mg/L | 10 | 13-Apr-2021 11:53 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 372 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-27R
 Collection Date: 05-Apr-2021 16:35

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-08
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.178 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:43 |
| Calcium | 431 | | 0.680 | 10.0 | mg/L | 20 | 13-Apr-2021 12:57 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 1,890 | | 20.0 | 50.0 | mg/L | 100 | 12-Apr-2021 22:59 |
| Sulfate | 605 | | 20.0 | 50.0 | mg/L | 100 | 12-Apr-2021 22:59 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 4,820 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-28
 Collection Date: 05-Apr-2021 17:25

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-09
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | 0.217 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:45 |
| Calcium | 583 | | 0.680 | 10.0 | mg/L | 20 | 13-Apr-2021 12:59 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 2,470 | | 20.0 | 50.0 | mg/L | 100 | 12-Apr-2021 23:36 |
| Sulfate | 654 | | 2.00 | 5.00 | mg/L | 10 | 12-Apr-2021 23:17 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 6,380 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: DUP-01
 Collection Date: 05-Apr-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-10
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|--------|----------------------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD |
| Boron | 0.0488 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:56 |
| Calcium | 33.8 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:56 |
| ANIONS BY E300.0 | | Method:E300 | | | | | Analyst: YP |
| Chloride | 36.9 | | 0.200 | 0.500 | mg/L | 1 | 13-Apr-2021 00:31 |
| Sulfate | 78.3 | | 0.200 | 0.500 | mg/L | 1 | 13-Apr-2021 00:31 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | | Analyst: KAH |
| Total Dissolved Solids (Residue, Filterable) | 320 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | | Analyst: SUBHO |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: FB-01
 Collection Date: 05-Apr-2021 12:40

ANALYTICAL REPORT
 WorkOrder:HS21040187
 Lab ID:HS21040187-11
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Boron | < 0.0110 | | 0.0110 | 0.0200 | mg/L | 1 | 12-Apr-2021 16:58 |
| Calcium | < 0.0340 | | 0.0340 | 0.500 | mg/L | 1 | 12-Apr-2021 16:58 |
| ANIONS BY E300.0 | | Method:E300 | | | | Analyst: YP | |
| Chloride | < 0.200 | | 0.200 | 0.500 | mg/L | 1 | 13-Apr-2021 00:49 |
| Sulfate | < 0.200 | | 0.200 | 0.500 | mg/L | 1 | 13-Apr-2021 00:49 |
| TOTAL DISSOLVED SOLIDS BY SM2540C | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | < 5.00 | | 5.00 | 10.0 | mg/L | 1 | 12-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

Batch ID: 164464 **Start Date:** 10 Apr 2021 09:00 **End Date:** 10 Apr 2021 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21040187-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040187-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-------------------|----------------------------|----|
| Batch ID: 164464 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:29 | 1 |
| HS21040187-02 | MW-02 | 05 Apr 2021 13:25 | | 10 Apr 2021 13:00 | 12 Apr 2021 18:11 | 20 |
| HS21040187-02 | MW-02 | 05 Apr 2021 13:25 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:13 | 1 |
| HS21040187-03 | MW-17 | 05 Apr 2021 15:35 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:31 | 1 |
| HS21040187-04 | MW-19 | 05 Apr 2021 12:10 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:33 | 1 |
| HS21040187-05 | MW-20 | 05 Apr 2021 11:20 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:35 | 1 |
| HS21040187-06 | MW-21 | 05 Apr 2021 10:30 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:39 | 1 |
| HS21040187-07 | MW-22 | 05 Apr 2021 09:40 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:41 | 1 |
| HS21040187-08 | MW-27R | 05 Apr 2021 16:35 | | 10 Apr 2021 13:00 | 13 Apr 2021 12:57 | 20 |
| HS21040187-08 | MW-27R | 05 Apr 2021 16:35 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:43 | 1 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | 10 Apr 2021 13:00 | 13 Apr 2021 12:59 | 20 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:45 | 1 |
| HS21040187-10 | DUP-01 | 05 Apr 2021 10:00 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:56 | 1 |
| HS21040187-11 | FB-01 | 05 Apr 2021 12:40 | | 10 Apr 2021 13:00 | 12 Apr 2021 16:58 | 1 |
| Batch ID: R381477 (0) | | Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C | | | Matrix: Groundwater | |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-02 | MW-02 | 05 Apr 2021 13:25 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-03 | MW-17 | 05 Apr 2021 15:35 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-04 | MW-19 | 05 Apr 2021 12:10 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-05 | MW-20 | 05 Apr 2021 11:20 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-06 | MW-21 | 05 Apr 2021 10:30 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-07 | MW-22 | 05 Apr 2021 09:40 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-08 | MW-27R | 05 Apr 2021 16:35 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-10 | DUP-01 | 05 Apr 2021 10:00 | | | 12 Apr 2021 17:00 | 1 |
| HS21040187-11 | FB-01 | 05 Apr 2021 12:40 | | | 12 Apr 2021 17:00 | 1 |
| Batch ID: R381481 (0) | | Test Name : PH BY SM4500H+ B | | | Matrix: Groundwater | |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | | 13 Apr 2021 14:02 | 1 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-----------|----------------------------|-----|
| Batch ID: R381484 (0) | | Test Name : ANIONS BY E300.0 | | | Matrix: Groundwater | |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | | 12 Apr 2021 19:37 | 10 |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | | 12 Apr 2021 19:18 | 1 |
| HS21040187-02 | MW-02 | 05 Apr 2021 13:25 | | | 12 Apr 2021 19:55 | 10 |
| HS21040187-03 | MW-17 | 05 Apr 2021 15:35 | | | 12 Apr 2021 20:50 | 1 |
| HS21040187-04 | MW-19 | 05 Apr 2021 12:10 | | | 12 Apr 2021 21:08 | 1 |
| HS21040187-05 | MW-20 | 05 Apr 2021 11:20 | | | 12 Apr 2021 21:27 | 1 |
| HS21040187-06 | MW-21 | 05 Apr 2021 10:30 | | | 12 Apr 2021 21:45 | 1 |
| HS21040187-07 | MW-22 | 05 Apr 2021 09:40 | | | 12 Apr 2021 22:04 | 1 |
| HS21040187-08 | MW-27R | 05 Apr 2021 16:35 | | | 12 Apr 2021 22:59 | 100 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | | 12 Apr 2021 23:36 | 100 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | | 12 Apr 2021 23:17 | 10 |
| HS21040187-10 | DUP-01 | 05 Apr 2021 10:00 | | | 13 Apr 2021 00:31 | 1 |
| HS21040187-11 | FB-01 | 05 Apr 2021 12:40 | | | 13 Apr 2021 00:49 | 1 |
| Batch ID: R381543 (0) | | Test Name : ANIONS BY E300.0 | | | Matrix: Groundwater | |
| HS21040187-04 | MW-19 | 05 Apr 2021 12:10 | | | 13 Apr 2021 11:17 | 10 |
| HS21040187-06 | MW-21 | 05 Apr 2021 10:30 | | | 13 Apr 2021 11:35 | 10 |
| HS21040187-07 | MW-22 | 05 Apr 2021 09:40 | | | 13 Apr 2021 11:53 | 10 |
| Batch ID: R381609 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21040187-01 | MW-01 | 05 Apr 2021 14:45 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-02 | MW-02 | 05 Apr 2021 13:25 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-03 | MW-17 | 05 Apr 2021 15:35 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-04 | MW-19 | 05 Apr 2021 12:10 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-05 | MW-20 | 05 Apr 2021 11:20 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-06 | MW-21 | 05 Apr 2021 10:30 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-07 | MW-22 | 05 Apr 2021 09:40 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-08 | MW-27R | 05 Apr 2021 16:35 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-09 | MW-28 | 05 Apr 2021 17:25 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-10 | DUP-01 | 05 Apr 2021 10:00 | | | 15 Apr 2021 09:43 | 1 |
| HS21040187-11 | FB-01 | 05 Apr 2021 12:40 | | | 15 Apr 2021 09:43 | 1 |

WorkOrder: HS21040187
 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: HS21040187
 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: HS21040187
 InstrumentID: WetChem_HS
 Test Code: PH_W M4500H+B
 Test Number: SM4500H+ B
 Test Name: pH by SM4500H+ B

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: pH Units

| Type | Analyte | CAS | DCS Spike | DCS | MDL | PQL |
|------|----------------|------|-----------|-----|-------|-------|
| A | pH | PH | 0 | 0 | 0.100 | 0.100 |
| A | Temp Deg C @pH | TEMP | 0 | 0 | 0 | 0 |

WorkOrder: HS21040187
 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 Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

| Batch ID: 164464 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|-------------------------|------------------------------------|-------------------------------|-----------------------|----------------------------------|---|---------------|---------------|-------|-----------|------|
| MBLK | Sample ID: MBLK-164464 | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:09 | | | | | |
| Client ID: | | Run ID: ICPMS06_381382 | SeqNo: 6037123 | PrepDate: 10-Apr-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-164464 | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:11 | | | | | |
| Client ID: | | Run ID: ICPMS06_381382 | SeqNo: 6037124 | PrepDate: 10-Apr-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5013 | 0.0200 | 0.5 | 0 | 100 | 80 - 120 | | | | |
| Calcium | 4.797 | 0.500 | 5 | 0 | 95.9 | 80 - 120 | | | | |
| MS | Sample ID: HS21040187-02MS | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:17 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_381382 | SeqNo: 6037127 | PrepDate: 10-Apr-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5547 | 0.0200 | 0.5 | 0.04009 | 103 | 80 - 120 | | | | |
| Calcium | 177.5 | 0.500 | 5 | 172.2 | 106 | 80 - 120 | | | | O |
| MSD | Sample ID: HS21040187-02MSD | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:19 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_381382 | SeqNo: 6037128 | PrepDate: 10-Apr-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5559 | 0.0200 | 0.5 | 0.04009 | 103 | 80 - 120 | 0.5547 | 0.218 | 20 | |
| Calcium | 172.2 | 0.500 | 5 | 172.2 | 0.278 | 80 - 120 | 177.5 | 3.03 | 20 | SO |
| PDS | Sample ID: HS21040187-02PDS | Units: mg/L | | | Analysis Date: 13-Apr-2021 12:55 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_381466 | SeqNo: 6038704 | PrepDate: 10-Apr-2021 | DF: 20 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 362.1 | 10.0 | 200 | 163.7 | 99.2 | 75 - 125 | | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

Batch ID: 164464 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

SD Sample ID: **HS21040187-02SD** Units: **mg/L** Analysis Date: **12-Apr-2021 16:15**
Client ID: **MW-02** Run ID: **ICPMS06_381382** SeqNo: **6037126** PrepDate: **10-Apr-2021** DF: **5**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Boron < 0.0550 0.100 0.04009 0 10

SD Sample ID: **HS21040187-02SD** Units: **mg/L** Analysis Date: **13-Apr-2021 12:53**
Client ID: **MW-02** Run ID: **ICPMS06_381466** SeqNo: **6038703** PrepDate: **10-Apr-2021** DF: **100**
Analyte **Result** **MQL** **SPK Val** **SPK Ref Value** **%REC** **Control Limit** **RPD Ref Value** **%D** **Limit Qual**

Calcium 172 50.0 163.7 5.11 10

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21040187-01 | HS21040187-02 | HS21040187-03 | HS21040187-04 |
| HS21040187-05 | HS21040187-06 | HS21040187-07 | HS21040187-08 |
| HS21040187-09 | HS21040187-10 | HS21040187-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

Batch ID: R381477 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C

| | | | | | | | | | | |
|-------------|--------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: WBLK-041221 | Units: mg/L | | | Analysis Date: 12-Apr-2021 17:00 | | | | | |
| Client ID: | Run ID: Balance1_381477 | SeqNo: 6038496 | 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-041221 | Units: mg/L | | | Analysis Date: 12-Apr-2021 17:00 | | | | | |
| Client ID: | Run ID: Balance1_381477 | SeqNo: 6038497 | 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) 1004 10.0 1000 0 100 85 - 115

| | | | | | | | | | | |
|------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21040304-02DUP | Units: mg/L | | | Analysis Date: 12-Apr-2021 17:00 | | | | | |
| Client ID: | Run ID: Balance1_381477 | SeqNo: 6038488 | 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) 5528 10.0 5584 1.01 5

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21040187-02DUP | Units: mg/L | | | Analysis Date: 12-Apr-2021 17:00 | | | | | |
| Client ID: MW-02 | Run ID: Balance1_381477 | SeqNo: 6038476 | 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) 1644 10.0 1614 1.84 5

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21040187-01 | HS21040187-02 | HS21040187-03 | HS21040187-04 |
| HS21040187-05 | HS21040187-06 | HS21040187-07 | HS21040187-08 |
| HS21040187-09 | HS21040187-10 | HS21040187-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

Batch ID: R381481 (0) Instrument: WetChem_HS Method: PH BY SM4500H+ B

DUP Sample ID: HS21040014-08DUP Units: pH Units Analysis Date: 13-Apr-2021 14:02
Client ID: Run ID: WetChem_HS_381481 SeqNo: 6038529 PrepDate: DF: 1
Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | | |
|----------------|------|-------|--|--|--|--|--|------|-------|----|
| pH | 7.62 | 0.100 | | | | | | 7.61 | 0.131 | 10 |
| Temp Deg C @pH | 20.8 | 0 | | | | | | 20.8 | 0 | 10 |

The following samples were analyzed in this batch:

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

| Batch ID: R381484 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0 | | | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|--------------------------|---|---------------|---------------|----------------|----------------|--|
| MBLK | Sample ID: MBLK- | Units: mg/L | | | Analysis Date: 12-Apr-2021 17:46 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038571 | | 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: 12-Apr-2021 18:04 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038572 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 21.01 | 0.500 | 20 | 0 | 105 | 90 - 110 | | | | |
| Sulfate | 21.49 | 0.500 | 20 | 0 | 107 | 90 - 110 | | | | |
| MS | Sample ID: HS21040187-09MS | Units: mg/L | | | Analysis Date: 12-Apr-2021 23:54 | | | | | |
| Client ID: MW-28 | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038591 | | PrepDate: | | DF: 100 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 3381 | 50.0 | 1000 | 2468 | 91.2 | 80 - 120 | | | | |
| Sulfate | 1674 | 50.0 | 1000 | 696.8 | 97.7 | 80 - 120 | | | | |
| MS | Sample ID: HS21040187-02MS | Units: mg/L | | | Analysis Date: 12-Apr-2021 20:13 | | | | | |
| Client ID: MW-02 | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038579 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 436.9 | 5.00 | 100 | 340.2 | 96.8 | 80 - 120 | | | | |
| Sulfate | 745.3 | 5.00 | 100 | 659.9 | 85.4 | 80 - 120 | | | O | |
| MSD | Sample ID: HS21040187-09MSD | Units: mg/L | | | Analysis Date: 13-Apr-2021 00:13 | | | | | |
| Client ID: MW-28 | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038592 | | PrepDate: | | DF: 100 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 3481 | 50.0 | 1000 | 2468 | 101 | 80 - 120 | 3381 | 2.91 | 20 | |
| Sulfate | 1740 | 50.0 | 1000 | 696.8 | 104 | 80 - 120 | 1674 | 3.84 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

Batch ID: R381484 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0

| MSD | | Sample ID: HS21040187-02MSD | | Units: mg/L | | Analysis Date: 12-Apr-2021 20:32 | | | | |
|------------------|--------|------------------------------|---------|----------------|------|----------------------------------|---------------|--------|-----------|------|
| Client ID: MW-02 | | Run ID: ICS-Integrion_381484 | | SeqNo: 6038580 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 436.2 | 5.00 | 100 | 340.2 | 96.1 | 80 - 120 | 436.9 | 0.16 | 20 | |
| Sulfate | 748.2 | 5.00 | 100 | 659.9 | 88.3 | 80 - 120 | 745.3 | 0.385 | 20 | O |

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21040187-01 | HS21040187-02 | HS21040187-03 | HS21040187-04 |
| HS21040187-05 | HS21040187-06 | HS21040187-07 | HS21040187-08 |
| HS21040187-09 | HS21040187-10 | HS21040187-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

QC BATCH REPORT

| Batch ID: R381543 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0 | | | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|--------------------------|---|---------------|---------------|---------------|----------------|--|
| MBLK | Sample ID: MBLK- | Units: mg/L | | | Analysis Date: 13-Apr-2021 10:21 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039904 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | < 0.200 | 0.500 | | | | | | | | |
| LCS | Sample ID: LCS- | Units: mg/L | | | Analysis Date: 13-Apr-2021 10:58 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039905 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | 20.55 | 0.500 | 20 | 0 | 103 | 90 - 110 | | | | |
| MS | Sample ID: HS21040619-02MS | Units: mg/L | | | Analysis Date: 13-Apr-2021 17:36 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039920 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | 95.34 | 0.500 | 10 | 86.86 | 84.9 | 80 - 120 | | | O | |
| MS | Sample ID: HS21031602-01MS | Units: mg/L | | | Analysis Date: 13-Apr-2021 12:42 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039939 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | 2232 | 5.00 | 100 | 2186 | 45.3 | 80 - 120 | | | SEO | |
| MSD | Sample ID: HS21040619-02MSD | Units: mg/L | | | Analysis Date: 13-Apr-2021 17:54 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039921 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | 95.71 | 0.500 | 10 | 86.86 | 88.6 | 80 - 120 | 95.34 | 0.386 | 20 O | |
| MSD | Sample ID: HS21031602-01MSD | Units: mg/L | | | Analysis Date: 13-Apr-2021 13:00 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_381543 | | SeqNo: 6039940 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit Qual | |
| Sulfate | 2222 | 5.00 | 100 | 2186 | 35.9 | 80 - 120 | 2232 | 0.421 | 20 SEO | |

The following samples were analyzed in this batch: HS21040187-04 HS21040187-06 HS21040187-07

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21040187

**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 Limestone - Appendix III
Work Order: HS21040187

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|---------------------|--------|--------------|
| HS21040187-01 | MW-01 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-01 | MW-01 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-01 | MW-01 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-02 | MW-02 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-02 | MW-02 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-02 | MW-02 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-03 | MW-17 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-03 | MW-17 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-03 | MW-17 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-04 | MW-19 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-04 | MW-19 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-04 | MW-19 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-05 | MW-20 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-05 | MW-20 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-05 | MW-20 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-06 | MW-21 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-06 | MW-21 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-06 | MW-21 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-07 | MW-22 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-07 | MW-22 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-07 | MW-22 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-08 | MW-27R | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-08 | MW-27R | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-08 | MW-27R | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-09 | MW-28 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-09 | MW-28 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-09 | MW-28 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-10 | DUP-01 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-10 | DUP-01 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-10 | DUP-01 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |
| HS21040187-11 | FB-01 | Login | 4/6/2021 8:49:03 AM | JRM | MET068 |
| HS21040187-11 | FB-01 | Login | 4/6/2021 8:49:03 AM | JRM | Sub |
| HS21040187-11 | FB-01 | Login | 4/6/2021 8:49:03 AM | JRM | WET200 |

Sample Receipt Checklist

Work Order ID: HS21040187

Date/Time Received: 06-Apr-2021 08:20

Client Name: TRC-HOU

Received by: Jared R. Makan

| | | | |
|----------------------------------|-------------------|---------------------------------|-------------------|
| Completed By: /S/ Jared R. Makan | 06-Apr-2021 10:54 | Reviewed by: /S/ Corey Grandits | 07-Apr-2021 12:50 |
| 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
- Chain of custody signed when relinquished and received? Yes No
- 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

2 Page(s)
COC IDs:239584, 239583

| | | |
|--|---|--|
| Temperature(s)/Thermometer(s): | 1.3°C, 1.0°C, 0.9°C UC/C | IR31 |
| Cooler(s)/Kit(s): | 47153, 47151, 47152 | |
| Date/Time sample(s) sent to storage: | 04/06/2021 08:20 | |
| 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:



Cincinnati, OH
+1 513 733 5336

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+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 239584

HS21040187

TRC Corporation
NRG Limestone - Appendix III



ALS Project Manager:

| Customer Information | | Project Information | | ALS Project Manager: | |
|----------------------|-----------------------------------|---------------------|------------------------------------|----------------------|---|
| Purchase Order | 161260 | Project Name | NRG Limestone- Appendix III | A | ICP_TW (B and Ca (App III)) |
| Work Order | | Project Number | | B | 300_W (Cl, SO4) |
| Company Name | TRC Corporation | Bill To Company | TRC Corporation | C | Sub_Fluoride (Sub Fluoride to ALS Michigan) |
| Send Report To | Lori Burris | Invoice Attn | A/P | D | TDS_W2540C (TDS) |
| 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 | O = 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-01 | 4/5/21 | 1445 | W | 2, 8 | | X | X | X | X | | | | | | | |
| 2 | MW-02 | 4/5/21 | 1325 | | | | (X) | (X) | (X) | (X) | | | | | | | |
| 3 | MW-17 | 4/5/21 | 1535 | | | | X | X | X | X | | | | | | | |
| 4 | MW-19 | 4/5/21 | 1210 | | | | X | X | X | X | | | | | | | |
| 5 | MW-20 | 4/5/21 | 1120 | | | | X | X | X | X | | | | | | | |
| 6 | MW-21 | 4/5/21 | 1030 | | | | X | X | X | X | | | | | | | |
| 7 | MW-22 | 4/5/21 | 940 | | | | X | X | X | X | | | | | | | |
| 8 | MW-27R | 4/5/21 | 1635 | | | | X | X | X | X | | | | | | | |
| 9 | MW-28 | 4/5/21 | 1725 | | | | X | X | X | X | | | | | | | |
| 10 | Dup-01 | 4/5/21 | 1000 | | | | X | X | X | X | | | | | | | |

| | | | | | | | | |
|--|--------------|--------------------------|--|--|--------------|--|--|--|
| Sampler(s) Please Print & Sign <i>Scott Duncan Satt D</i> | | Shipment Method FedEx | | 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>Satt D</i> | Date: 4/6/21 | Time: 820 | Received by: | Notes: NRG Limestone <input type="checkbox"/> PRIVILEGED & CONFIDENTIAL | | | | |
| Relinquished by: | Date: 4/6/21 | Time: 08.20 | Received by (Laboratory): <i>J. M. M...</i> | Cooler ID | Cooler Temp. | QC Package: (Check One Box Below) | | |
| Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory): | 47153 | 1.3°C | <input type="checkbox"/> Level II Std OC | <input checked="" 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 | | | | 47151 | 1.0°C | <input type="checkbox"/> Level III Std QC/Raw Date | <input type="checkbox"/> TRRP Level IV | |
| | | | | 47152 | 0.9°C | <input type="checkbox"/> Level IV SW-6/CLP | | |

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 accurately.



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+1 513 733 5336

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Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

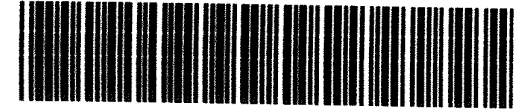
Chain of Custody Form

Page 2 of 2

COC ID: 239583

HS21040187

TRC Corporation
NRG Limestone - Appendix III



ALS Project Manager:

| Customer Information | | Project Information | | ALS Project Manager: | | | | | | | | | | | |
|----------------------|-----------------------------------|---------------------|------------------------------------|----------------------|---|--|--|--|--|--|--|--|--|--|--|
| Purchase Order | 161260 | Project Name | NRG Limestone- Appendix III | A | ICP_TW (B and Ca (App III)) | | | | | | | | | | |
| Work Order | | Project Number | | B | 300_W (Cl, SO4) | | | | | | | | | | |
| Company Name | TRC Corporation | Bill To Company | TRC Corporation | C | Sub_Fluoride (Sub Fluoride to ALS Michigan) | | | | | | | | | | |
| Send Report To | Lori Burris | Invoice Attn | A/P | D | TDS_W 2540C (TDS) | | | | | | | | | | |
| 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 | FB-01 | 4/5/21 | 1240 | W | 2,8 | | X | X | X | X | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|--|---------------------|---------------------------------|--|--|--|--|--|-------------------|--|--|--|---|--|
| Sampler(s) Please Print & Sign <i>Scott Duncan</i> <i>Stt D</i> | | Shipment Method <i>FedEx</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>Stt D</i> | Date: <i>4/6/21</i> | Time: <i>820</i> | Received by: _____ | | | | | | | | | | |
| Relinquished by: _____ | Date: <i>4/6/21</i> | Time: <i>08:20</i> | Received by (Laboratory): <i>J. MURPHY</i> | | | | | | | | | | |
| Logged by (Laboratory): _____ | Date: _____ | Time: _____ | Checked by (Laboratory): _____ | | | | | | | | | | |
| 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 | | | | | | | | | | | | Notes: NRG Limestone <input type="checkbox"/> PRIVILEGED & CONFIDENTIAL | |
| Cooler ID | | Cooler Temp. | | QC Package: (Check One Box Below) | | | | | | | | | |
| | | | | <input type="checkbox"/> Level II Std QC | | <input checked="" type="checkbox"/> TRRP Checklist | | | | | | | |
| | | | | <input type="checkbox"/> Level III Std QC/Raw Date | | <input type="checkbox"/> TRRP Level IV | | | | | | | |
| | | | | <input type="checkbox"/> Level IV SIWB/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 accurately.

| | |
|---|----------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/6/21 |
| | Name: _____ |
| | Company: _____ |
| | _____ |

| | | |
|---------------------|-----------|---------------------------|
| CUSTODY SEAL | | Seal Broken By: <i>Jm</i> |
| 4/6/21 | Time: 800 | Date: 4/6/21 |
| Scott D... HMI | | |
| _____ | | |

| | |
|--|----------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/6/21 |
| | Name: _____ |
| | Company: _____ |
| | _____ |

| | | |
|---------------------|-----------|---------------------------|
| CUSTODY SEAL | | Seal Broken By: <i>Jm</i> |
| 21 | Time: 800 | Date: 4/6/21 |
| Scott D... HMI | | |
| _____ | | |

| | |
|--|----------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/6/21 |
| | Name: _____ |
| | Company: _____ |
| | _____ |

| | | |
|---------------------|-----------|---------------------------|
| CUSTODY SEAL | | Seal Broken By: <i>Jm</i> |
| 21 | Time: 800 | Date: 4/6/21 |
| Scott D... HMI | | |
| _____ | | |



15-Apr-2021

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

Re: **HS21040187**

Work Order: **21040612**

Dear Corey,

ALS Environmental received 11 samples on 07-Apr-2021 02:30 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 24.

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 

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Page 44 of 67

Client: ALS Environmental
Project: HS21040187
Work Order: 21040612

**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_210412C | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21040612, 21040613 | | | | | |
| Analyst Name: QN | | Date 4/12/21 | Reviewer Name: RM | | Date: 4/13/21 | | |
| | 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: HS21040187
 Work Order: 21040612

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21040612-01 | HS21040187-01 | Groundwater | MW-01 | 4/5/2021 14:45 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-02 | HS21040187-02 | Groundwater | MW-02 | 4/5/2021 13:25 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-03 | HS21040187-03 | Groundwater | MW-17 | 4/5/2021 15:35 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-04 | HS21040187-04 | Groundwater | MW-19 | 4/5/2021 12:10 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-05 | HS21040187-05 | Groundwater | MW-20 | 4/5/2021 11:20 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-06 | HS21040187-06 | Groundwater | MW-21 | 4/5/2021 10:30 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-07 | HS21040187-07 | Groundwater | MW-22 | 4/5/2021 09:40 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-08 | HS21040187-08 | Groundwater | MW-27R | 4/5/2021 16:35 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-09 | HS21040187-09 | Groundwater | MW-28 | 4/5/2021 17:25 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-10 | HS21040187-10 | Groundwater | DUP-01 | 4/5/2021 10:00 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040612-11 | HS21040187-11 | Groundwater | FB-01 | 4/5/2021 12:40 | 4/7/2021 14:30 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21040187
WorkOrder: 21040612

**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: 21040612
 Client: ALS Environmental
 Project: HS21040187

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|---|------------------|-------------|----------------------|-----------|-----------|--------------------|
| Batch ID R313867 Test Name: Fluoride | | | | | | |
| 21040612-01A | HS21040187-01 | Groundwater | 4/5/2021 2:45:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-02A | HS21040187-02 | | 4/5/2021 1:25:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-03A | HS21040187-03 | | 4/5/2021 3:35:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-04A | HS21040187-04 | | 4/5/2021 12:10:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-05A | HS21040187-05 | | 4/5/2021 11:20:00 AM | | | 4/12/2021 05:23 PM |
| 21040612-06A | HS21040187-06 | | 4/5/2021 10:30:00 AM | | | 4/12/2021 05:23 PM |
| 21040612-07A | HS21040187-07 | | 4/5/2021 9:40:00 AM | | | 4/12/2021 05:23 PM |
| 21040612-08A | HS21040187-08 | | 4/5/2021 4:35:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-09A | HS21040187-09 | | 4/5/2021 5:25:00 PM | | | 4/12/2021 05:23 PM |
| 21040612-10A | HS21040187-10 | | 4/5/2021 10:00:00 AM | | | 4/12/2021 05:23 PM |
| 21040612-11A | HS21040187-11 | | 4/5/2021 12:40:00 PM | | | 4/12/2021 05:23 PM |

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-01
Collection Date: 4/5/2021 02:45 PM

Work Order: 21040612
Lab ID: 21040612-01
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.070 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-02
Collection Date: 4/5/2021 01:25 PM

Work Order: 21040612
Lab ID: 21040612-02
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-03
Collection Date: 4/5/2021 03:35 PM

Work Order: 21040612
Lab ID: 21040612-03
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.16 | | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-04
Collection Date: 4/5/2021 12:10 PM

Work Order: 21040612
Lab ID: 21040612-04
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-05
Collection Date: 4/5/2021 11:20 AM

Work Order: 21040612
Lab ID: 21040612-05
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|-----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.22 | | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-06
Collection Date: 4/5/2021 10:30 AM

Work Order: 21040612
Lab ID: 21040612-06
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-07
Collection Date: 4/5/2021 09:40 AM

Work Order: 21040612
Lab ID: 21040612-07
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-08
Collection Date: 4/5/2021 04:35 PM

Work Order: 21040612
Lab ID: 21040612-08
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-09
Collection Date: 4/5/2021 05:25 PM

Work Order: 21040612
Lab ID: 21040612-09
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | MQL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|-----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.19 | | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-10
Collection Date: 4/5/2021 10:00 AM

Work Order: 21040612
Lab ID: 21040612-10
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040187
Sample ID: HS21040187-11
Collection Date: 4/5/2021 12:40 PM

Work Order: 21040612
Lab ID: 21040612-11
Matrix: GROUNDWATER

| 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 | 4/12/2021 17:23 |

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

WorkOrder: 21040612
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: 21040612
 Project: HS21040187

QC BATCH REPORT

Batch ID: **R313867** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R313867-R313867 | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|--------------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297024 | | 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-R313867-R313867 | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|---------------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297025 | | 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 | 104 | 80-120 | | 0 | | |

| MS | | Sample ID: 21040612-02AMS | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: HS21040187-02 | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297035 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Fluoride | 5.09 | 0.10 | 5 | 0.03 | 101 | 75-125 | | 0 | | |

| MS | | Sample ID: 21040613-02AMS | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297048 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Fluoride | 5.09 | 0.10 | 5 | 0.03 | 101 | 75-125 | | 0 | | |

| MSD | | Sample ID: 21040612-02AMSD | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: HS21040187-02 | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297036 | | 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 | 0.03 | 102 | 75-125 | 5.09 | 0.588 | 20 | |

| MSD | | Sample ID: 21040613-02AMSD | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|-----------------------------------|---------|---------------|-----------------------|--------------------|---------------|--|--------------|------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | SeqNo: 7297049 | | 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 | 0.03 | 102 | 75-125 | 5.09 | 0.588 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21040612-01A | 21040612-02A | 21040612-03A |
| 21040612-04A | 21040612-05A | 21040612-06A |
| 21040612-07A | 21040612-08A | 21040612-09A |
| 21040612-10A | 21040612-11A | |

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

21040612



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: 15881

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: 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: HS21040187
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|----------------------|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21040187-01 | MW-01 | Groundwater | 05 Apr 2021 14:45 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 2. | HS21040187-02 | MW-02 | Groundwater | 05 Apr 2021 13:25 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 3. | HS21040187-03 | MW-17 | Groundwater | 05 Apr 2021 15:35 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 4. | HS21040187-04 | MW-19 | Groundwater | 05 Apr 2021 12:10 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 5. | HS21040187-05 | MW-20 | Groundwater | 05 Apr 2021 11:20 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 6. | HS21040187-06 | MW-21 | Groundwater | 05 Apr 2021 10:30 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 7. | HS21040187-07 | MW-22 | Groundwater | 05 Apr 2021 09:40 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 8. | HS21040187-08 | MW-27R | Groundwater | 05 Apr 2021 16:35 |
| | Fluoride by ISE 4500 | | | 10 May 2021 |
| 9. | HS21040187-09 | MW-28 | Groundwater | 05 Apr 2021 17:25 |

RIGHT SOLUTIONS | RIGHT PARTNER



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15881

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--------------------------|----------------------|--------------------|--------------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| | Fluoride by ISE 4500 | | 10 May 2021 |
| 10. HS21040187-10 | DUP-01 | Groundwater | 05 Apr 2021 10:00 |
| | Fluoride by ISE 4500 | | 10 May 2021 |
| 11. HS21040187-11 | FB-01 | Groundwater | 05 Apr 2021 12:40 |
| | Fluoride by ISE 4500 | | 10 May 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

HS21040187-02 MS/MSD

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

Relinquished By:

J. MAJORS

Date/Time:

4/6/21 18:00

Received By:

[Signature]

Date/Time:

4/7/21 1430

Cooler ID(s):

Temperature(s):

1 P1 1.6°C

pH₂₆

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **07-Apr-21 14:30**

Work Order: **21040612**

Received by: **DS**

Checklist completed by Diane Shaw 08-Apr-21
eSignature Date

Reviewed by: Chad Whelton 08-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): 1.6/1.6 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 4/8/2021 7:05:48 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

June 01, 2021

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

Work Order: **HS21040188**

Laboratory Results for: **NRG Limestone - Appendix IV**

Dear Lori Burris,

ALS Environmental received 11 sample(s) on Apr 06, 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 Limestone - Appendix IV
WorkOrder: HS21040188

**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 Limestone - Appendix IV
WorkOrder: HS21040188

**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 Limestone - Appendix IV | | Laboratory Job Number: HS21040188 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 164448,164464,164465,164466,R381609,R384664,R384665,R384666 | | | | | |
| # 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: 06/01/2021 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix IV | | Laboratory Job Number: HS21040188 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 164448,164464,164465,R381609,R384664,R384665,R384666 | | | | | |
| # 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 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: 06/01/2021 |
| Project Name: NRG Limestone - Appendix IV | Laboratory Job Number: HS21040188 |
| Reviewer Name: Corey Grandits | Prep Batch Number(s): 164448,164464,164465,R381609,R384664,R384665,R384666 |

| ER# ⁵ | Description |
|------------------|--|
| 1 | Batch 164464, Metals Method SW6020, sample HS21040187-02, MS was performed on unrelated sample. |
| 2 | The analysis for Fluoride was subcontracted to ALS Holland, MI. Final report attached. The analysis for Rad-226/228 was subcontracted to ALS Fort Collins, CO. Final report attached. |
| 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 Limestone - Appendix IV
WorkOrder: HS21040188
Start Date: 12-Apr-2021

Run ID: ICPMS06_381382
Instrument: ICPMS06
Method: SW6020A

End Date: 13-Apr-2021

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|-------------------------------------|
| ICV | 1 | 12-Apr-2021 11:09 | 017_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICB | 1 | 12-Apr-2021 11:11 | 018_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV2 | 1 | 12-Apr-2021 11:13 | 019LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICV5 | 1 | 12-Apr-2021 11:15 | 020LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 12-Apr-2021 11:18 | 021ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 12-Apr-2021 11:20 | 022ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 1 | 1 | 12-Apr-2021 11:46 | 032_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 1 | 1 | 12-Apr-2021 11:48 | 033_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 2 | 1 | 12-Apr-2021 12:15 | 044_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 2 | 1 | 12-Apr-2021 12:17 | 045_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 3 | 1 | 12-Apr-2021 12:41 | 056_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 3 | 1 | 12-Apr-2021 12:43 | 057_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 4 | 1 | 12-Apr-2021 13:04 | 068_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 4 | 1 | 12-Apr-2021 13:06 | 069_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 5 | 1 | 12-Apr-2021 13:28 | 080_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 5 | 1 | 12-Apr-2021 13:30 | 081_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 6 | 1 | 12-Apr-2021 14:21 | 093_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 6 | 1 | 12-Apr-2021 14:23 | 094_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 7 | 1 | 12-Apr-2021 14:47 | 106_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 7 | 1 | 12-Apr-2021 14:49 | 107_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 8 | 1 | 12-Apr-2021 15:15 | 119_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 8 | 1 | 12-Apr-2021 15:17 | 120_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 9 | 1 | 12-Apr-2021 15:33 | 128_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 9 | 1 | 12-Apr-2021 15:35 | 129_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 10 | 1 | 12-Apr-2021 15:57 | 140_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 10 | 1 | 12-Apr-2021 15:59 | 141_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 12-Apr-2021 16:01 | 142LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 12-Apr-2021 16:03 | 143LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MBLK-164464 | 1 | 12-Apr-2021 16:09 | 144SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LCS-164464 | 1 | 12-Apr-2021 16:11 | 145SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZSD | 5 | 12-Apr-2021 16:15 | 147SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZMS | 1 | 12-Apr-2021 16:17 | 148SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZMSD | 1 | 12-Apr-2021 16:19 | 149SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ZZZZZPDS | 1 | 12-Apr-2021 16:21 | 150SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 11 | 1 | 12-Apr-2021 16:25 | 152_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 11 | 1 | 12-Apr-2021 16:27 | 153_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 12 | 1 | 12-Apr-2021 16:49 | 164_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 12 | 1 | 12-Apr-2021 16:51 | 165_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-01 | 1 | 12-Apr-2021 17:00 | 169SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-17 | 1 | 12-Apr-2021 17:02 | 170SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-19 | 1 | 12-Apr-2021 17:04 | 171SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-20 | 1 | 12-Apr-2021 17:06 | 172SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-21 | 1 | 12-Apr-2021 17:08 | 173SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-22 | 1 | 12-Apr-2021 17:10 | 174SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 13 | 1 | 12-Apr-2021 17:14 | 176_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 13 | 1 | 12-Apr-2021 17:16 | 177_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-27R | 1 | 12-Apr-2021 17:25 | 178SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-28 | 1 | 12-Apr-2021 17:27 | 179SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| DUP-01 | 1 | 12-Apr-2021 17:29 | 180SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MBLK-164465 | 1 | 12-Apr-2021 17:33 | 182SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LCS-164465 | 1 | 12-Apr-2021 17:35 | 183SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 WorkOrder: HS21040188
 Start Date: 12-Apr-2021

End Date: 13-Apr-2021

Run ID:ICPMS06_381382
 Instrument:ICPMS06
 Method:SW6020A

| Sample No. | D/F | Time | FileID | Analyses |
|------------|-----|-------------------|-----------|-------------------------------------|
| CCV 14 | 1 | 12-Apr-2021 17:46 | 188_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 14 | 1 | 12-Apr-2021 17:48 | 189_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02 | 1 | 12-Apr-2021 17:50 | 190SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02SD | 5 | 12-Apr-2021 17:52 | 191SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02MS | 1 | 12-Apr-2021 17:54 | 192SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02MSD | 1 | 12-Apr-2021 17:56 | 193SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02PDS | 1 | 12-Apr-2021 17:58 | 194SMPL.d | AS BA CD CO CR MO PB SB TL |
| FB-01 | 1 | 12-Apr-2021 18:00 | 195SMPL.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 15 | 1 | 12-Apr-2021 18:05 | 197_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 15 | 1 | 12-Apr-2021 18:06 | 198_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| MW-02SD | 100 | 12-Apr-2021 18:27 | 208SMPL.d | |
| MW-02PDS | 20 | 12-Apr-2021 18:29 | 209SMPL.d | |
| CCV 16 | 1 | 12-Apr-2021 18:31 | 210_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 16 | 1 | 12-Apr-2021 18:33 | 211_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 17 | 1 | 12-Apr-2021 19:59 | 215_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 17 | 1 | 12-Apr-2021 20:01 | 216_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 18 | 1 | 12-Apr-2021 20:24 | 227_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 18 | 1 | 12-Apr-2021 20:26 | 228_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 19 | 1 | 12-Apr-2021 20:59 | 237_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 19 | 1 | 12-Apr-2021 21:01 | 238_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 20 | 1 | 12-Apr-2021 21:21 | 248_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 20 | 1 | 12-Apr-2021 21:23 | 249_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 21 | 1 | 12-Apr-2021 21:42 | 258_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 21 | 1 | 12-Apr-2021 21:44 | 259_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 22 | 1 | 12-Apr-2021 21:56 | 265_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 22 | 1 | 12-Apr-2021 21:58 | 266_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 23 | 1 | 12-Apr-2021 22:12 | 273_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 23 | 1 | 12-Apr-2021 22:14 | 274_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 24 | 1 | 12-Apr-2021 22:28 | 281_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 24 | 1 | 12-Apr-2021 22:30 | 282_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCV 25 | 1 | 12-Apr-2021 23:26 | 308_ICV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV5 | 1 | 12-Apr-2021 23:28 | 309LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLICCV2 | 1 | 12-Apr-2021 23:30 | 310LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICCB 25 | 1 | 12-Apr-2021 23:32 | 311_ICB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 12-Apr-2021 23:37 | 313ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 12-Apr-2021 23:39 | 314ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 26 | 1 | 12-Apr-2021 23:47 | 318_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 26 | 1 | 12-Apr-2021 23:49 | 319_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 27 | 1 | 13-Apr-2021 00:02 | 325_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 27 | 1 | 13-Apr-2021 00:03 | 326_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 28 | 1 | 13-Apr-2021 00:20 | 334_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 28 | 1 | 13-Apr-2021 00:22 | 335_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 29 | 1 | 13-Apr-2021 00:42 | 345_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 29 | 1 | 13-Apr-2021 00:44 | 346_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 30 | 1 | 13-Apr-2021 01:03 | 355_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 30 | 1 | 13-Apr-2021 01:05 | 356_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 31 | 1 | 13-Apr-2021 01:21 | 364_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 31 | 1 | 13-Apr-2021 01:23 | 365_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 32 | 1 | 13-Apr-2021 01:40 | 373_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCB 32 | 1 | 13-Apr-2021 01:42 | 374_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| CCV 33 | 1 | 13-Apr-2021 02:00 | 383_CCV.d | AS BA BE CD CO CR LI MO PB SB SE TL |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188
Start Date: 12-Apr-2021 **End Date:** 13-Apr-2021

Run ID: ICPMS06_381382
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-------------------------------------|
| CCB 33 | 1 | 13-Apr-2021 02:02 | 384_CCB.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLCCV2 | 1 | 13-Apr-2021 02:06 | 386LCV2.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| LLCCV5 | 1 | 13-Apr-2021 02:08 | 387LCV5.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSA | 1 | 13-Apr-2021 02:10 | 388ICSA.d | AS BA BE CD CO CR LI MO PB SB SE TL |
| ICSAB | 1 | 13-Apr-2021 02:12 | 389ICSB.d | AS BA BE CD CO CR LI MO PB SB SE TL |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

Run ID: ICPMS06_381382
Instrument: ICPMS06
Method: SW6020A

| CCB | Date | Seq | D/F | Units |
|---------|-------------------|---------------|------------|---------------------|
| CCB 1 | 12-Apr-2021 11:46 | 6036136 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.63 | 0.4 | 2 |
| CCB 2 | 12-Apr-2021 12:17 | 6036396 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.614 | 0.4 | 2 |
| CCB 4 | 12-Apr-2021 13:04 | 6036679 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.204 | 0.2 | 2 |
| CCB 5 | 12-Apr-2021 13:30 | 6036769 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.705 | 0.4 | 2 |
| | Thallium | 0.301 | 0.2 | 2 |
| CCB 6 | 12-Apr-2021 14:21 | 6036850 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.497 | 0.4 | 2 |
| | Thallium | 0.317 | 0.2 | 2 |
| CCB 7 | 12-Apr-2021 14:47 | 6036863 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.445 | 0.2 | 2 |
| CCB 8 | 12-Apr-2021 15:15 | 6037044 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.414 | 0.4 | 2 |
| | Thallium | 0.502 | 0.2 | 2 |
| CCB 9 | 12-Apr-2021 15:33 | 6037053 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.797 | 0.4 | 2 |
| | Thallium | 0.248 | 0.2 | 2 |
| ICCB 10 | 12-Apr-2021 15:59 | 6037120 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.464 | 0.2 | 2 |
| CCB 11 | 12-Apr-2021 16:27 | 6037132 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.438 | 0.4 | 2 |
| | Thallium | 0.616 | 0.2 | 2 |
| CCB 12 | 12-Apr-2021 16:51 | 6037219 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.663 | 0.2 | 2 |
| CCB 13 | 12-Apr-2021 17:16 | 6037229 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Thallium | 0.701 | 0.2 | 2 |
| CCB 14 | 12-Apr-2021 17:48 | 6037274 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

Run ID:ICPMS06_381382
Instrument:ICPMS06
Method:SW6020A

| | | Thallium | 0.692 | 0.2 | 2 |
|--------|-------------------------|---------------|------------|---------------------|-------------|
| CCB 15 | Date: 12-Apr-2021 18:06 | Seq: 6037283 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.432 | 0.4 | 2 | |
| | Thallium | 0.708 | 0.2 | 2 | |
| CCB 16 | Date: 12-Apr-2021 18:33 | Seq: 6037454 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.716 | 0.4 | 2 | |
| | Thallium | 0.77 | 0.2 | 2 | |
| CCB 17 | Date: 12-Apr-2021 20:01 | Seq: 6037493 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.431 | 0.4 | 2 | |
| | Thallium | 0.898 | 0.2 | 2 | |
| CCB 18 | Date: 12-Apr-2021 20:26 | Seq: 6037505 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 0.92 | 0.2 | 2 | |
| CCB 19 | Date: 12-Apr-2021 21:01 | Seq: 6037515 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.002 | 0.2 | 2 | |
| CCB 20 | Date: 12-Apr-2021 21:23 | Seq: 6037526 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.03 | 0.2 | 2 | |
| CCB 21 | Date: 12-Apr-2021 21:44 | Seq: 6037552 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.404 | 0.4 | 2 | |
| | Thallium | 1.062 | 0.2 | 2 | |
| CCB 22 | Date: 12-Apr-2021 21:58 | Seq: 6037559 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.775 | 0.4 | 2 | |
| | Thallium | 1.074 | 0.2 | 2 | |
| CCB 23 | Date: 12-Apr-2021 22:14 | Seq: 6037534 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.08 | 0.2 | 2 | |
| CCB 24 | Date: 12-Apr-2021 22:30 | Seq: 6037542 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Thallium | 1.082 | 0.2 | 2 | |
| CCB 26 | Date: 12-Apr-2021 23:49 | Seq: 6037605 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.617 | 0.4 | 2 | |
| | Thallium | 1.195 | 0.2 | 2 | |
| CCB 27 | Date: 13-Apr-2021 00:03 | Seq: 6037612 | | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit | |
| | Antimony | 0.694 | 0.4 | 2 | |
| | Thallium | 1.357 | 0.2 | 2 | |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

Run ID:ICPMS06_381382
Instrument:ICPMS06
Method:SW6020A

| CCB | Date | Seq | D/F | Units |
|--------|-------------------|---------------|------------|---------------------|
| CCB 28 | 13-Apr-2021 00:22 | 6037618 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.468 | 0.4 | 2 |
| | Thallium | 1.131 | 0.2 | 2 |
| CCB 29 | 13-Apr-2021 00:44 | 6037629 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.485 | 0.4 | 2 |
| | Thallium | 1.124 | 0.2 | 2 |
| CCB 30 | 13-Apr-2021 01:05 | 6037635 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.812 | 0.4 | 2 |
| | Thallium | 1.122 | 0.2 | 2 |
| CCB 31 | 13-Apr-2021 01:23 | 6037644 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.482 | 0.4 | 2 |
| | Thallium | 1.097 | 0.2 | 2 |
| CCB 32 | 13-Apr-2021 01:42 | 6037653 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.456 | 0.4 | 2 |
| | Thallium | 1.111 | 0.2 | 2 |
| CCB 33 | 13-Apr-2021 02:02 | 6037670 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Antimony | 0.444 | 0.4 | 2 |
| | Thallium | 1.178 | 0.2 | 2 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
Work Order: HS21040188

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|-------------|-------|-------------------|-------------------|--------------------------|
| HS21040188-01 | MW-01 | Groundwater | | 05-Apr-2021 14:45 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-02 | MW-02 | Groundwater | | 05-Apr-2021 13:25 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-03 | MW-17 | Groundwater | | 05-Apr-2021 15:35 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-04 | MW-19 | Groundwater | | 05-Apr-2021 12:10 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-05 | MW-20 | Groundwater | | 05-Apr-2021 11:20 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-06 | MW-21 | Groundwater | | 05-Apr-2021 10:30 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-07 | MW-22 | Groundwater | | 05-Apr-2021 09:40 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-08 | MW-27R | Groundwater | | 05-Apr-2021 16:35 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-09 | MW-28 | Groundwater | | 05-Apr-2021 17:25 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-10 | DUP-01 | Groundwater | | 05-Apr-2021 10:00 | 06-Apr-2021 08:20 | <input type="checkbox"/> |
| HS21040188-11 | FB-01 | Groundwater | | 05-Apr-2021 12:40 | 06-Apr-2021 08:20 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix IV
 Sample ID: MW-01
 Collection Date: 05-Apr-2021 14:45

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-01
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Barium | 0.765 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:00 |
| Beryllium | 0.000212 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Chromium | 0.00337 | J | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:00 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:00 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Lithium | 0.0464 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:00 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:00 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:00 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:27 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-02
 Collection Date: 05-Apr-2021 13:25

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-02
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Barium | 0.0929 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:50 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Chromium | 0.00101 | J | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:50 |
| Cobalt | 0.00164 | J | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:50 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Lithium | 0.0730 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:50 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:50 |
| Selenium | 0.00275 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:50 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:00 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-17
 Collection Date: 05-Apr-2021 15:35

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-03
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Arsenic | 0.000632 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Barium | 0.0149 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:02 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:02 |
| Cobalt | 0.000284 | J | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:02 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Lithium | 0.0115 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:02 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:02 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:02 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:29 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-19
 Collection Date: 05-Apr-2021 12:10

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-04
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Arsenic | 0.000874 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Barium | 0.108 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:04 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Cadmium | 0.000266 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:04 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:04 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Lithium | 0.0123 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:04 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:04 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:04 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:31 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-20
 Collection Date: 05-Apr-2021 11:20

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-05
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Arsenic | 0.000773 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Barium | 0.0903 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:06 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Chromium | 0.00106 | J | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:06 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:06 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Lithium | 0.0108 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:06 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:06 |
| Selenium | 0.00333 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:06 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:38 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-21
 Collection Date: 05-Apr-2021 10:30

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-06
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Arsenic | 0.000561 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Barium | 0.0659 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:08 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Cadmium | 0.000757 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:08 |
| Cobalt | 0.000583 | J | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:08 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Lithium | 0.0236 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:08 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:08 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:08 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:40 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-22
 Collection Date: 05-Apr-2021 09:40

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-07
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Barium | 0.116 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:10 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Cadmium | 0.000315 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:10 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:10 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Lithium | 0.0146 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:10 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:10 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:10 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:42 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-27R
 Collection Date: 05-Apr-2021 16:35

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-08
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Arsenic | 0.00336 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Barium | 0.0573 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:25 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Chromium | 0.00111 | J | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:25 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:25 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Lithium | 0.160 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:25 |
| Molybdenum | 0.00228 | J | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:25 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:25 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:43 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: MW-28
 Collection Date: 05-Apr-2021 17:25

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-09
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MLL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Arsenic | 0.00280 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Barium | 0.0817 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:27 |
| Beryllium | 0.000431 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Cadmium | 0.00551 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Chromium | 0.0138 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:27 |
| Cobalt | 0.262 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:27 |
| Lead | 0.00128 | J | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Lithium | 0.957 | | 0.0200 | 0.100 | mg/L | 20 | 13-Apr-2021 13:01 |
| Molybdenum | 0.00157 | J | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:27 |
| Selenium | 0.00282 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| Thallium | 0.000457 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:27 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:45 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: DUP-01
 Collection Date: 05-Apr-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-10
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Arsenic | 0.000822 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Barium | 0.104 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:29 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Cadmium | 0.000274 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 17:29 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:29 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Lithium | 0.0128 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:29 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 17:29 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| Thallium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 17:29 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:47 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 15-Apr-2021 09:43 |
| 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 Limestone - Appendix IV
 Sample ID: FB-01
 Collection Date: 05-Apr-2021 12:40

ANALYTICAL REPORT
 WorkOrder:HS21040188
 Lab ID:HS21040188-11
 Matrix:Groundwater

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|-----------------|-----------------------|-----------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 10-Apr-2021 | | Analyst: JHD | |
| Antimony | 0.00117 | J | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Arsenic | < 0.000400 | | 0.000400 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Barium | < 0.00190 | | 0.00190 | 0.00400 | mg/L | 1 | 12-Apr-2021 18:00 |
| Beryllium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Cadmium | < 0.000200 | | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Chromium | < 0.000400 | | 0.000400 | 0.00400 | mg/L | 1 | 12-Apr-2021 18:00 |
| Cobalt | < 0.000200 | | 0.000200 | 0.00500 | mg/L | 1 | 12-Apr-2021 18:00 |
| Lead | < 0.000600 | | 0.000600 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Lithium | < 0.00100 | | 0.00100 | 0.00500 | mg/L | 1 | 12-Apr-2021 18:00 |
| Molybdenum | < 0.000600 | | 0.000600 | 0.00500 | mg/L | 1 | 12-Apr-2021 18:00 |
| Selenium | < 0.00110 | | 0.00110 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| Thallium | 0.000911 | J | 0.000200 | 0.00200 | mg/L | 1 | 12-Apr-2021 18:00 |
| MERCURY BY SW7470A | | Method:SW7470A | | Prep:SW7470A / 09-Apr-2021 | | Analyst: MSC | |
| Mercury | < 0.0000300 | | 0.0000300 | 0.000200 | mg/L | 1 | 09-Apr-2021 17:48 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUB | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 31-May-2021 13:57 |
| 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 Limestone - Appendix IV
WorkOrder: HS21040188

Batch ID: 164448 **Start Date:** 09 Apr 2021 12:00 **End Date:** 09 Apr 2021 15:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21040188-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Batch ID: 164464 **Start Date:** 10 Apr 2021 09:00 **End Date:** 10 Apr 2021 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21040188-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Batch ID: 164465 **Start Date:** 10 Apr 2021 09:00 **End Date:** 10 Apr 2021 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21040188-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21040188-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-------------------|----------------------------|----|
| Batch ID: 164448 (0) | | Test Name : MERCURY BY SW7470A | | | Matrix: Groundwater | |
| HS21040188-01 | MW-01 | 05 Apr 2021 14:45 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:27 | 1 |
| HS21040188-02 | MW-02 | 05 Apr 2021 13:25 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:00 | 1 |
| HS21040188-03 | MW-17 | 05 Apr 2021 15:35 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:29 | 1 |
| HS21040188-04 | MW-19 | 05 Apr 2021 12:10 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:31 | 1 |
| HS21040188-05 | MW-20 | 05 Apr 2021 11:20 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:38 | 1 |
| HS21040188-06 | MW-21 | 05 Apr 2021 10:30 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:40 | 1 |
| HS21040188-07 | MW-22 | 05 Apr 2021 09:40 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:42 | 1 |
| HS21040188-08 | MW-27R | 05 Apr 2021 16:35 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:43 | 1 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:45 | 1 |
| HS21040188-10 | DUP-01 | 05 Apr 2021 10:00 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:47 | 1 |
| HS21040188-11 | FB-01 | 05 Apr 2021 12:40 | | 09 Apr 2021 12:00 | 09 Apr 2021 17:48 | 1 |
| Batch ID: 164464 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21040188-01 | MW-01 | 05 Apr 2021 14:45 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:00 | 1 |
| HS21040188-03 | MW-17 | 05 Apr 2021 15:35 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:02 | 1 |
| HS21040188-04 | MW-19 | 05 Apr 2021 12:10 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:04 | 1 |
| HS21040188-05 | MW-20 | 05 Apr 2021 11:20 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:06 | 1 |
| HS21040188-06 | MW-21 | 05 Apr 2021 10:30 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:08 | 1 |
| HS21040188-07 | MW-22 | 05 Apr 2021 09:40 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:10 | 1 |
| HS21040188-08 | MW-27R | 05 Apr 2021 16:35 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:25 | 1 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | 10 Apr 2021 13:00 | 13 Apr 2021 13:01 | 20 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:27 | 1 |
| HS21040188-10 | DUP-01 | 05 Apr 2021 10:00 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:29 | 1 |
| Batch ID: 164465 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Groundwater | |
| HS21040188-02 | MW-02 | 05 Apr 2021 13:25 | | 10 Apr 2021 13:00 | 12 Apr 2021 17:50 | 1 |
| HS21040188-11 | FB-01 | 05 Apr 2021 12:40 | | 10 Apr 2021 13:00 | 12 Apr 2021 18:00 | 1 |
| Batch ID: R381609 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21040188-01 | MW-01 | 05 Apr 2021 14:45 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-02 | MW-02 | 05 Apr 2021 13:25 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-03 | MW-17 | 05 Apr 2021 15:35 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-04 | MW-19 | 05 Apr 2021 12:10 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-05 | MW-20 | 05 Apr 2021 11:20 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-06 | MW-21 | 05 Apr 2021 10:30 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-07 | MW-22 | 05 Apr 2021 09:40 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-08 | MW-27R | 05 Apr 2021 16:35 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | | 15 Apr 2021 09:43 | 1 |
| HS21040188-10 | DUP-01 | 05 Apr 2021 10:00 | | | 15 Apr 2021 09:43 | 1 |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

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 | |
| HS21040188-01 | MW-01 | 05 Apr 2021 14:45 | | | 31 May 2021 13:33 | 1 |
| HS21040188-02 | MW-02 | 05 Apr 2021 13:25 | | | 31 May 2021 13:33 | 1 |
| HS21040188-03 | MW-17 | 05 Apr 2021 15:35 | | | 31 May 2021 13:33 | 1 |
| HS21040188-04 | MW-19 | 05 Apr 2021 12:10 | | | 31 May 2021 13:33 | 1 |
| HS21040188-05 | MW-20 | 05 Apr 2021 11:20 | | | 31 May 2021 13:33 | 1 |
| HS21040188-06 | MW-21 | 05 Apr 2021 10:30 | | | 31 May 2021 13:33 | 1 |
| HS21040188-07 | MW-22 | 05 Apr 2021 09:40 | | | 31 May 2021 13:33 | 1 |
| HS21040188-08 | MW-27R | 05 Apr 2021 16:35 | | | 31 May 2021 13:33 | 1 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | | 31 May 2021 13:33 | 1 |
| HS21040188-10 | DUP-01 | 05 Apr 2021 10:00 | | | 31 May 2021 13:33 | 1 |
| HS21040188-11 | FB-01 | 05 Apr 2021 12:40 | | | 31 May 2021 13:33 | 1 |
| Batch ID: R384665 (0) | | Test Name : SUBCONTRACT ANALYSIS - RADIUM 228 | | | Matrix: Groundwater | |
| HS21040188-01 | MW-01 | 05 Apr 2021 14:45 | | | 31 May 2021 13:40 | 1 |
| HS21040188-02 | MW-02 | 05 Apr 2021 13:25 | | | 31 May 2021 13:40 | 1 |
| HS21040188-03 | MW-17 | 05 Apr 2021 15:35 | | | 31 May 2021 13:40 | 1 |
| HS21040188-04 | MW-19 | 05 Apr 2021 12:10 | | | 31 May 2021 13:40 | 1 |
| HS21040188-05 | MW-20 | 05 Apr 2021 11:20 | | | 31 May 2021 13:40 | 1 |
| HS21040188-06 | MW-21 | 05 Apr 2021 10:30 | | | 31 May 2021 13:40 | 1 |
| HS21040188-07 | MW-22 | 05 Apr 2021 09:40 | | | 31 May 2021 13:40 | 1 |
| HS21040188-08 | MW-27R | 05 Apr 2021 16:35 | | | 31 May 2021 13:40 | 1 |
| HS21040188-09 | MW-28 | 05 Apr 2021 17:25 | | | 31 May 2021 13:40 | 1 |
| HS21040188-10 | DUP-01 | 05 Apr 2021 10:00 | | | 31 May 2021 13:40 | 1 |
| HS21040188-11 | FB-01 | 05 Apr 2021 12:40 | | | 31 May 2021 13:40 | 1 |
| Batch ID: R384666 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Groundwater | |
| HS21040188-11 | FB-01 | 05 Apr 2021 12:40 | | | 31 May 2021 13:57 | 1 |

WorkOrder: HS21040188
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: HS21040188
 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 Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

| | | |
|-------------------------------|-------------------------|-----------------------------------|
| Batch ID: 164448 (0) | Instrument: HG03 | Method: MERCURY BY SW7470A |
|-------------------------------|-------------------------|-----------------------------------|

| | | | | | | | | | | |
|-------------|-------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MBLK | Sample ID: MBLK-164448 | Units: mg/L | Analysis Date: 09-Apr-2021 16:55 | | | | | | | |
| Client ID: | Run ID: HG03_381290 | SeqNo: 6034649 | PrepDate: 09-Apr-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-164448 | Units: mg/L | Analysis Date: 09-Apr-2021 16:59 | | | | | | | |
| Client ID: | Run ID: HG03_381290 | SeqNo: 6034650 | PrepDate: 09-Apr-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.00454 0.000200 0.005 0 90.8 80 - 120

| | | | | | | | | | | |
|-------------------------|-----------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MS | Sample ID: HS21040188-02MS | Units: mg/L | Analysis Date: 09-Apr-2021 17:02 | | | | | | | |
| Client ID: MW-02 | Run ID: HG03_381290 | SeqNo: 6034652 | PrepDate: 09-Apr-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.00498 0.000200 0.005 0 99.6 75 - 125

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|---|---------------|------|---------------|---------------|----------|-----------|----------|
| MSD | Sample ID: HS21040188-02MSD | Units: mg/L | Analysis Date: 09-Apr-2021 17:04 | | | | | | | |
| Client ID: MW-02 | Run ID: HG03_381290 | SeqNo: 6034653 | PrepDate: 09-Apr-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | RPD %RPD | RPD Limit | RPD Qual |

Mercury 0.0051 0.000200 0.005 0 102 75 - 125 0.00498 2.38 20

| | | | | |
|---|---------------|---------------|---------------|---------------|
| The following samples were analyzed in this batch: | HS21040188-01 | HS21040188-02 | HS21040188-03 | HS21040188-04 |
| | HS21040188-05 | HS21040188-06 | HS21040188-07 | HS21040188-08 |
| | HS21040188-09 | HS21040188-10 | HS21040188-11 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

| | | | | | | | | | | |
|-------------------------------|-------------------------------|----------------------------|------------------------------|---|---|---------------|---------------|------|-----------|------|
| Batch ID: 164464 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
| MBLK | Sample ID: MBLK-164464 | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:09 | | | | | |
| Client ID: | Run ID: ICPMS06_381382 | SeqNo: 6037123 | PrepDate: 10-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-164464 | Units: mg/L | | | Analysis Date: 12-Apr-2021 16:11 | | | | | |
| Client ID: | Run ID: ICPMS06_381382 | SeqNo: 6037124 | PrepDate: 10-Apr-2021 | DF: 1 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

| | | | | | | | | | | |
|------------|---------|---------|------|---|------|----------|--|--|--|--|
| Antimony | 0.04879 | 0.00200 | 0.05 | 0 | 97.6 | 80 - 120 | | | | |
| Arsenic | 0.04982 | 0.00200 | 0.05 | 0 | 99.6 | 80 - 120 | | | | |
| Barium | 0.05001 | 0.00400 | 0.05 | 0 | 100 | 80 - 120 | | | | |
| Beryllium | 0.05269 | 0.00200 | 0.05 | 0 | 105 | 80 - 120 | | | | |
| Cadmium | 0.05204 | 0.00200 | 0.05 | 0 | 104 | 80 - 120 | | | | |
| Chromium | 0.04985 | 0.00400 | 0.05 | 0 | 99.7 | 80 - 120 | | | | |
| Cobalt | 0.05154 | 0.00500 | 0.05 | 0 | 103 | 80 - 120 | | | | |
| Lead | 0.0493 | 0.00200 | 0.05 | 0 | 98.6 | 80 - 120 | | | | |
| Lithium | 0.1037 | 0.00500 | 0.1 | 0 | 104 | 80 - 120 | | | | |
| Molybdenum | 0.04932 | 0.00500 | 0.05 | 0 | 98.6 | 80 - 120 | | | | |
| Selenium | 0.0528 | 0.00200 | 0.05 | 0 | 106 | 80 - 120 | | | | |
| Thallium | 0.04624 | 0.00200 | 0.05 | 0 | 92.5 | 80 - 120 | | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

Batch ID: 164464 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

| MS | | Sample ID: HS21040187-02MS | | | Units: mg/L | | Analysis Date: 12-Apr-2021 16:17 | | | |
|------------|---------|-----------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ICPMS06_381382 | | | SeqNo: 6037127 | | PrepDate: 10-Apr-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.04699 | 0.00200 | 0.05 | 0.000191 | 93.6 | 80 - 120 | | | | |
| Arsenic | 0.04884 | 0.00200 | 0.05 | 0.000313 | 97.1 | 80 - 120 | | | | |
| Barium | 0.1341 | 0.00400 | 0.05 | 0.08239 | 103 | 80 - 120 | | | | |
| Beryllium | 0.05132 | 0.00200 | 0.05 | 0.000034 | 103 | 80 - 120 | | | | |
| Cadmium | 0.04843 | 0.00200 | 0.05 | 0.000109 | 96.6 | 80 - 120 | | | | |
| Chromium | 0.04686 | 0.00400 | 0.05 | 0.000054 | 93.6 | 80 - 120 | | | | |
| Cobalt | 0.04681 | 0.00500 | 0.05 | 0.001541 | 90.5 | 80 - 120 | | | | |
| Lead | 0.04933 | 0.00200 | 0.05 | 0.000034 | 98.6 | 80 - 120 | | | | |
| Lithium | 0.1723 | 0.00500 | 0.1 | 0.06835 | 104 | 80 - 120 | | | | |
| Molybdenum | 0.04845 | 0.00500 | 0.05 | 0.000289 | 96.3 | 80 - 120 | | | | |
| Selenium | 0.05208 | 0.00200 | 0.05 | 0.002324 | 99.5 | 80 - 120 | | | | |
| Thallium | 0.04093 | 0.00200 | 0.05 | 0.000979 | 79.9 | 80 - 120 | | | | S |

| MSD | | Sample ID: HS21040187-02MSD | | | Units: mg/L | | Analysis Date: 12-Apr-2021 16:19 | | | |
|------------|---------|------------------------------------|---------|---------------|-----------------------|---------------|---|-------|--------------|------|
| Client ID: | | Run ID: ICPMS06_381382 | | | SeqNo: 6037128 | | PrepDate: 10-Apr-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.04684 | 0.00200 | 0.05 | 0.000191 | 93.3 | 80 - 120 | 0.04699 | 0.315 | 20 | |
| Arsenic | 0.04775 | 0.00200 | 0.05 | 0.000313 | 94.9 | 80 - 120 | 0.04884 | 2.26 | 20 | |
| Barium | 0.1334 | 0.00400 | 0.05 | 0.08239 | 102 | 80 - 120 | 0.1341 | 0.545 | 20 | |
| Beryllium | 0.05033 | 0.00200 | 0.05 | 0.000034 | 101 | 80 - 120 | 0.05132 | 1.94 | 20 | |
| Cadmium | 0.04741 | 0.00200 | 0.05 | 0.000109 | 94.6 | 80 - 120 | 0.04843 | 2.13 | 20 | |
| Chromium | 0.04599 | 0.00400 | 0.05 | 0.000054 | 91.9 | 80 - 120 | 0.04686 | 1.88 | 20 | |
| Cobalt | 0.04598 | 0.00500 | 0.05 | 0.001541 | 88.9 | 80 - 120 | 0.04681 | 1.79 | 20 | |
| Lead | 0.04838 | 0.00200 | 0.05 | 0.000034 | 96.7 | 80 - 120 | 0.04933 | 1.95 | 20 | |
| Lithium | 0.169 | 0.00500 | 0.1 | 0.06835 | 101 | 80 - 120 | 0.1723 | 1.9 | 20 | |
| Molybdenum | 0.04785 | 0.00500 | 0.05 | 0.000289 | 95.1 | 80 - 120 | 0.04845 | 1.24 | 20 | |
| Selenium | 0.05155 | 0.00200 | 0.05 | 0.002324 | 98.5 | 80 - 120 | 0.05208 | 1.02 | 20 | |
| Thallium | 0.0411 | 0.00200 | 0.05 | 0.000979 | 80.2 | 80 - 120 | 0.04093 | 0.407 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

| | | | | | | | | | | |
|-------------------------------|------------------------------------|---|---|---------------|------|---------------|---------------|------|-----------|------|
| Batch ID: 164464 (0) | Instrument: ICPMS06 | Method: ICP-MS METALS BY SW6020A | | | | | | | | |
| PDS | Sample ID: HS21040187-02PDS | Units: mg/L | Analysis Date: 12-Apr-2021 16:21 | | | | | | | |
| Client ID: | Run ID: ICPMS06_381382 | SeqNo: 6037129 | PrepDate: 10-Apr-2021 DF: 1 | | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

| | | | | | | | | | | |
|------------|--------|---------|-----|----------|------|----------|--|--|--|--|
| Antimony | 0.1068 | 0.00200 | 0.1 | 0.000191 | 107 | 75 - 125 | | | | |
| Arsenic | 0.1084 | 0.00200 | 0.1 | 0.000313 | 108 | 75 - 125 | | | | |
| Barium | 0.1962 | 0.00400 | 0.1 | 0.08239 | 114 | 75 - 125 | | | | |
| Beryllium | 0.1117 | 0.00200 | 0.1 | 0.000034 | 112 | 75 - 125 | | | | |
| Cadmium | 0.1082 | 0.00200 | 0.1 | 0.000109 | 108 | 75 - 125 | | | | |
| Chromium | 0.1087 | 0.00400 | 0.1 | 0.000054 | 109 | 75 - 125 | | | | |
| Cobalt | 0.1091 | 0.00500 | 0.1 | 0.001541 | 108 | 75 - 125 | | | | |
| Lead | 0.111 | 0.00200 | 0.1 | 0.000034 | 111 | 75 - 125 | | | | |
| Lithium | 0.1493 | 0.00500 | 0.1 | 0.06835 | 80.9 | 70 - 125 | | | | |
| Molybdenum | 0.1112 | 0.00500 | 0.1 | 0.000289 | 111 | 75 - 125 | | | | |
| Selenium | 0.1158 | 0.00200 | 0.1 | 0.002324 | 113 | 75 - 125 | | | | |
| Thallium | 0.1113 | 0.00200 | 0.1 | 0.000979 | 110 | 75 - 125 | | | | |

| | | | | | | | | | | |
|------------|-----------------------------------|-----------------------|---|---------------|------|---------------|---------------|----|----------|------|
| SD | Sample ID: HS21040187-02SD | Units: mg/L | Analysis Date: 12-Apr-2021 16:15 | | | | | | | |
| Client ID: | Run ID: ICPMS06_381382 | SeqNo: 6037126 | PrepDate: 10-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 | | | | | 0.000191 | 0 | 10 | |
| Arsenic | < 0.00200 | 0.0100 | | | | | 0.000313 | 0 | 10 | |
| Barium | 0.08147 | 0.0200 | | | | | 0.08239 | 1.11 | 10 | |
| Beryllium | < 0.00100 | 0.0100 | | | | | 0.000034 | 0 | 10 | |
| Cadmium | < 0.00100 | 0.0100 | | | | | 0.000109 | 0 | 10 | |
| Chromium | < 0.00200 | 0.0200 | | | | | 0.000054 | 0 | 10 | |
| Cobalt | 0.001634 | 0.0250 | | | | | 0.001541 | 0 | 10 | J |
| Lead | < 0.00300 | 0.0100 | | | | | 0.000034 | 0 | 10 | |
| Lithium | 0.0681 | 0.0250 | | | | | 0.06835 | 0.37 | 10 | |
| Molybdenum | < 0.00300 | 0.0250 | | | | | 0.000289 | 0 | 10 | |
| Selenium | < 0.00550 | 0.0100 | | | | | 0.002324 | 0 | 10 | |
| Thallium | < 0.00100 | 0.0100 | | | | | 0.000979 | 0 | 10 | |

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21040188-01 | HS21040188-03 | HS21040188-04 | HS21040188-05 |
| HS21040188-06 | HS21040188-07 | HS21040188-08 | HS21040188-09 |
| HS21040188-10 | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

Batch ID: 164465 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

MBLK Sample ID: **MBLK-164465** Units: **mg/L** Analysis Date: **12-Apr-2021 17:33**
 Client ID: Run ID: **ICPMS06_381382** SeqNo: **6037234** PrepDate: **10-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-164465** Units: **mg/L** Analysis Date: **12-Apr-2021 17:35**
 Client ID: Run ID: **ICPMS06_381382** SeqNo: **6037235** PrepDate: **10-Apr-2021** DF: **1**
 Analyte Result MQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual

| | | | | | | | | | |
|------------|---------|---------|------|---|------|----------|--|--|--|
| Antimony | 0.05161 | 0.00200 | 0.05 | 0 | 103 | 80 - 120 | | | |
| Arsenic | 0.0517 | 0.00200 | 0.05 | 0 | 103 | 80 - 120 | | | |
| Barium | 0.05225 | 0.00400 | 0.05 | 0 | 104 | 80 - 120 | | | |
| Beryllium | 0.05525 | 0.00200 | 0.05 | 0 | 110 | 80 - 120 | | | |
| Cadmium | 0.05386 | 0.00200 | 0.05 | 0 | 108 | 80 - 120 | | | |
| Chromium | 0.05074 | 0.00400 | 0.05 | 0 | 101 | 80 - 120 | | | |
| Cobalt | 0.05339 | 0.00500 | 0.05 | 0 | 107 | 80 - 120 | | | |
| Lead | 0.05191 | 0.00200 | 0.05 | 0 | 104 | 80 - 120 | | | |
| Lithium | 0.1107 | 0.00500 | 0.1 | 0 | 111 | 80 - 120 | | | |
| Molybdenum | 0.04951 | 0.00500 | 0.05 | 0 | 99.0 | 80 - 120 | | | |
| Selenium | 0.05499 | 0.00200 | 0.05 | 0 | 110 | 80 - 120 | | | |
| Thallium | 0.04982 | 0.00200 | 0.05 | 0 | 99.6 | 80 - 120 | | | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

Batch ID: 164465 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

| MS | | Sample ID: HS21040188-02MS | | | Units: mg/L | | Analysis Date: 12-Apr-2021 17:54 | | | |
|-------------------------|---------|-----------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: MW-02 | | Run ID: ICPMS06_381382 | | | SeqNo: 6037277 | | PrepDate: 10-Apr-2021 | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.05214 | 0.00200 | 0.05 | 0.000005 | 104 | 80 - 120 | | | | |
| Arsenic | 0.05237 | 0.00200 | 0.05 | 0.000395 | 104 | 80 - 120 | | | | |
| Barium | 0.1474 | 0.00400 | 0.05 | 0.09286 | 109 | 80 - 120 | | | | |
| Beryllium | 0.05484 | 0.00200 | 0.05 | 0.000033 | 110 | 80 - 120 | | | | |
| Cadmium | 0.05232 | 0.00200 | 0.05 | 0.000107 | 104 | 80 - 120 | | | | |
| Chromium | 0.0495 | 0.00400 | 0.05 | 0.001013 | 97.0 | 80 - 120 | | | | |
| Cobalt | 0.04924 | 0.00500 | 0.05 | 0.001645 | 95.2 | 80 - 120 | | | | |
| Lead | 0.05324 | 0.00200 | 0.05 | 0.000029 | 106 | 80 - 120 | | | | |
| Lithium | 0.1822 | 0.00500 | 0.1 | 0.07297 | 109 | 80 - 120 | | | | |
| Molybdenum | 0.05088 | 0.00500 | 0.05 | 0.000147 | 101 | 80 - 120 | | | | |
| Selenium | 0.0569 | 0.00200 | 0.05 | 0.002746 | 108 | 80 - 120 | | | | |
| Thallium | 0.04566 | 0.00200 | 0.05 | 0.000027 | 91.3 | 80 - 120 | | | | |

| MSD | | Sample ID: HS21040188-02MSD | | | Units: mg/L | | Analysis Date: 12-Apr-2021 17:56 | | | |
|-------------------------|---------|------------------------------------|---------|---------------|-----------------------|---------------|---|-------|--------------|------|
| Client ID: MW-02 | | Run ID: ICPMS06_381382 | | | SeqNo: 6037278 | | PrepDate: 10-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 | 0.000005 | 103 | 80 - 120 | 0.05214 | 1.69 | 20 | |
| Arsenic | 0.05098 | 0.00200 | 0.05 | 0.000395 | 101 | 80 - 120 | 0.05237 | 2.67 | 20 | |
| Barium | 0.1432 | 0.00400 | 0.05 | 0.09286 | 101 | 80 - 120 | 0.1474 | 2.9 | 20 | |
| Beryllium | 0.0538 | 0.00200 | 0.05 | 0.000033 | 108 | 80 - 120 | 0.05484 | 1.91 | 20 | |
| Cadmium | 0.05142 | 0.00200 | 0.05 | 0.000107 | 103 | 80 - 120 | 0.05232 | 1.73 | 20 | |
| Chromium | 0.048 | 0.00400 | 0.05 | 0.001013 | 94.0 | 80 - 120 | 0.0495 | 3.08 | 20 | |
| Cobalt | 0.04835 | 0.00500 | 0.05 | 0.001645 | 93.4 | 80 - 120 | 0.04924 | 1.82 | 20 | |
| Lead | 0.05109 | 0.00200 | 0.05 | 0.000029 | 102 | 80 - 120 | 0.05324 | 4.14 | 20 | |
| Lithium | 0.1759 | 0.00500 | 0.1 | 0.07297 | 103 | 80 - 120 | 0.1822 | 3.5 | 20 | |
| Molybdenum | 0.05096 | 0.00500 | 0.05 | 0.000147 | 102 | 80 - 120 | 0.05088 | 0.159 | 20 | |
| Selenium | 0.05547 | 0.00200 | 0.05 | 0.002746 | 105 | 80 - 120 | 0.0569 | 2.54 | 20 | |
| Thallium | 0.04448 | 0.00200 | 0.05 | 0.000027 | 88.9 | 80 - 120 | 0.04566 | 2.63 | 20 | |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

QC BATCH REPORT

Batch ID: 164465 (0) **Instrument:** ICPMS06 **Method:** ICP-MS METALS BY SW6020A

| PDS | | Sample ID: HS21040188-02PDS | | | Units: mg/L | | Analysis Date: 12-Apr-2021 17:58 | | | |
|------------|--------------|------------------------------------|---------|-----------------------|------------------------------|---------------|---|------|-----------|------|
| Client ID: | MW-02 | Run ID: ICPMS06_381382 | | SeqNo: 6037279 | PrepDate: 10-Apr-2021 | DF: 1 | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Antimony | 0.122 | 0.00200 | 0.1 | 0.000005 | 122 | 75 - 125 | | | | |
| Arsenic | 0.122 | 0.00200 | 0.1 | 0.000395 | 122 | 75 - 125 | | | | |
| Barium | 0.2152 | 0.00400 | 0.1 | 0.09286 | 122 | 75 - 125 | | | | |
| Cadmium | 0.1225 | 0.00200 | 0.1 | 0.000107 | 122 | 75 - 125 | | | | |
| Chromium | 0.1196 | 0.00400 | 0.1 | 0.001013 | 119 | 75 - 125 | | | | |
| Cobalt | 0.1154 | 0.00500 | 0.1 | 0.001645 | 114 | 75 - 125 | | | | |
| Lead | 0.125 | 0.00200 | 0.1 | 0.000029 | 125 | 75 - 125 | | | | |
| Molybdenum | 0.1242 | 0.00500 | 0.1 | 0.000147 | 124 | 75 - 125 | | | | |
| Thallium | 0.1229 | 0.00200 | 0.1 | 0.000027 | 123 | 75 - 125 | | | | |

| SD | | Sample ID: HS21040188-02SD | | | Units: mg/L | | Analysis Date: 12-Apr-2021 17:52 | | | |
|------------|--------------|-----------------------------------|---------|-----------------------|------------------------------|---------------|---|------|----------|------|
| Client ID: | MW-02 | Run ID: ICPMS06_381382 | | SeqNo: 6037276 | PrepDate: 10-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 | | | | | 0.000005 | | 0 10 | |
| Arsenic | < 0.00200 | 0.0100 | | | | | 0.000395 | | 0 10 | |
| Barium | 0.08953 | 0.0200 | | | | | 0.09286 | 3.59 | 10 | |
| Beryllium | < 0.00100 | 0.0100 | | | | | 0.000033 | | 0 10 | |
| Cadmium | < 0.00100 | 0.0100 | | | | | 0.000107 | | 0 10 | |
| Chromium | < 0.00200 | 0.0200 | | | | | 0.001013 | | 0 10 | |
| Cobalt | 0.00167 | 0.0250 | | | | | 0.001645 | | 0 10 | J |
| Lead | < 0.00300 | 0.0100 | | | | | 0.000029 | | 0 10 | |
| Lithium | 0.07397 | 0.0250 | | | | | 0.07297 | 1.37 | 10 | |
| Molybdenum | < 0.00300 | 0.0250 | | | | | 0.000147 | | 0 10 | |
| Selenium | < 0.00550 | 0.0100 | | | | | 0.002746 | | 0 10 | |
| Thallium | < 0.00100 | 0.0100 | | | | | 0.000027 | | 0 10 | |

The following samples were analyzed in this batch: HS21040188-02 HS21040188-11

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
WorkOrder: HS21040188

**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 Limestone - Appendix IV
Work Order: HS21040188

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|---------------------|--------|--------------|
| HS21040188-01 | MW-01 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-01 | MW-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-01 | MW-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-01 | MW-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-02 | MW-02 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-02 | MW-02 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-02 | MW-02 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-02 | MW-02 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-03 | MW-17 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-03 | MW-17 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-03 | MW-17 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-03 | MW-17 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-04 | MW-19 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-04 | MW-19 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-04 | MW-19 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-04 | MW-19 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-05 | MW-20 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-05 | MW-20 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-05 | MW-20 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-05 | MW-20 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-06 | MW-21 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-06 | MW-21 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-06 | MW-21 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-06 | MW-21 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-07 | MW-22 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-07 | MW-22 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-07 | MW-22 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-07 | MW-22 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-08 | MW-27R | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-08 | MW-27R | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-08 | MW-27R | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-08 | MW-27R | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-09 | MW-28 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-09 | MW-28 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-09 | MW-28 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-09 | MW-28 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-10 | DUP-01 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-10 | DUP-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-10 | DUP-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |

Client: TRC Corporation
Project: NRG Limestone - Appendix IV
Work Order: HS21040188

SAMPLE TRACKING

| | | | | | |
|---------------|--------|-------|---------------------|-----|--------|
| HS21040188-10 | DUP-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-11 | FB-01 | Login | 4/6/2021 8:50:12 AM | JRM | MET068 |
| HS21040188-11 | FB-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-11 | FB-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |
| HS21040188-11 | FB-01 | Login | 4/6/2021 8:50:12 AM | JRM | Sub |

Sample Receipt Checklist

Work Order ID: HS21040188

Date/Time Received: 06-Apr-2021 08:20

Client Name: TRC-HOU

Received by: Jared R. Makan

| | | | |
|----------------------------------|-------------------|---------------------------------|-------------------|
| Completed By: /S/ Jared R. Makan | 06-Apr-2021 10:59 | Reviewed by: /S/ Corey Grandits | 07-Apr-2021 12:54 |
| 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 2 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:239582, 239581
- 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): | 1.3°C, 1.0°C, 0.9°C UC/C | IR31 |
| Cooler(s)/Kit(s): | 47153, 47151, 47152 | |
| Date/Time sample(s) sent to storage: | 04/06/2021 11:00 | |

- 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 2

COC ID: 239582

HS21040188

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

| Customer Information | | Project Information | |
|----------------------|-----------------------------------|---------------------|------------------------------------|
| Purchase Order | 161260 | Project Name | NRG Limestone- Appendix IV |
| Work Order | | Project Number | |
| Company Name | TRC Corporation | Bill To Company | TRC Corporation |
| Send Report To | Lori Burris | Invoice Attn | A/P |
| Address | 16350 Park Ten Place Suite 101 | Address | 16350 Park Ten Place Suite 101 |
| City/State/Zip | Houston, TX 77084 | City/State/Zip | Houston TX 77084 |
| 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 |

| | |
|---|--|
| A | ICP_TW (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl) |
| B | HG_W (Mercury) |
| C | SUB_RA 226 (Sub RA 226 to ALS Fort Collins) |
| D | SUB_RA 228 (Sub RA 228 to ALS Fort Collins) |
| E | Sub_Fluoride (Report from Appendix III COC) |
| F | |
| G | <i>○ = MS/MSD volume provided</i> |
| H | |
| I | |
| J | |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|--------------------|--------|------|--------|-------|-----------|---|---|---|---|---|---|---|---|---|---|------|
| 1 | MW-01 | 4/5/21 | 1445 | W | 2,8 | | X | X | X | X | X | | | | | | |
| 2 | MW-02 | 4/5/21 | 1325 | | | | ⊗ | ⊗ | ⊗ | ⊗ | ⊗ | | | | | | |
| 3 | MW-17 | 4/5/21 | 1535 | | | | X | X | X | X | X | | | | | | |
| 4 | MW-19 | 4/5/21 | 1210 | | | | X | X | X | X | X | | | | | | |
| 5 | MW-20 | 4/5/21 | 1120 | | | | X | X | X | X | X | | | | | | |
| 6 | MW-21 | 4/5/21 | 1030 | | | | X | X | X | X | X | | | | | | |
| 7 | MW-22 | 4/5/21 | 940 | | | | X | X | X | X | X | | | | | | |
| 8 | MW-27R | 4/5/21 | 1635 | | | | X | X | X | X | X | | | | | | |
| 9 | MW-28 | 4/5/21 | 1725 | | | | X | X | X | X | X | | | | | | |
| 10 | Dup-01 | 4/5/21 | 1000 | | | | X | X | X | X | X | | | | | | |

Sampler(s) Please Print & Sign: *Scott Duncan* *Stt D*

Shipment Method: *FedEx*

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

Results Due Date: _____

Relinquished by: *Stt D* Date: *4/6/21* Time: *820*

Relinquished by: _____ Date: *4/6/21* Time: *08:20*

Received by: *J. Malcolm*

Checked by (Laboratory): _____

Notes: **NRG Limestone** PRIVILEGED & CONFIDENTIAL

| Cooler ID | Cooler Temp. | QC Package: (Check One Box Below) |
|-----------|--------------|---|
| 47153 | 1.3°C | <input type="checkbox"/> Level II Std QC <input checked="" type="checkbox"/> TRRP Checklist |
| 47151 | 1.0°C | <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV |
| 47152 | 0.9°C | <input type="checkbox"/> Level IV SIM/4B/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

- 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 accurately.

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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 239581

HS21040188

TRC Corporation
NRG Limestone - Appendix IV



ALS Project Manager:

| Customer Information | | Project Information | | |
|----------------------|-----------------------------------|---------------------|------------------------------------|---|
| Purchase Order | 161260 | Project Name | NRG Limestone- 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 |

| No. | Sample Description | Date | Time | Matrix | Pres. | # Bottles | A | B | C | D | E | F | G | H | I | J | Hold |
|-----|--------------------|--------|------|--------|-------|-----------|---|---|---|---|---|---|---|---|---|---|------|
| 1 | FB-01 | 4/5/21 | 1240 | W | 2,8 | | X | X | X | X | X | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Scott Duncan *Scott Duncan*

Shipment Method: FedEx

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

Results Due Date: _____

Relinquished by: Scott Duncan Date: 4/6/21 Time: 8:20

Relinquished by: _____ Date: 4/6/21 Time: 08:20

Received by: _____ Received by (Laboratory): J. N...

Logged by (Laboratory): _____ Checked by (Laboratory): _____

Notes: NRG Limestone 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 SWB/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.
 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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| | | |
|--|--|----------------|
|  | ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/ |
| | | Name: _____ |
| | | Company: _____ |
| | | |

| | | |
|---------------------|-----------|-----------------|
| CUSTODY SEAL | | Seal Broken By: |
| 4/21 | Time: 800 | Jm |
| Scott Danna | | Date: |
| HMI | | 4/6/21 |

| | | |
|---|--|----------------|
|  | ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/6/ |
| | | Name: _____ |
| | | Company: _____ |
| | | |

| | | |
|---------------------|-----------|-----------------|
| CUSTODY SEAL | | Seal Broken By: |
| 21 | Time: 800 | Jm |
| Scott Danna | | Date: |
| HMI | | 4/6/21 |

| | | |
|---|--|----------------|
|  | ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | Date: 4/6/21 |
| | | Name: _____ |
| | | Company: _____ |
| | | |

| | | |
|--------------------|-----------|-----------------|
| USTODY SEAL | | Seal Broken By: |
| 21 | Time: 800 | Jm |
| Scott Danna | | Date: |
| HMI | | 4/6/21 |



Thursday, May 13, 2021

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

Re: ALS Workorder: 2104258
Project Name:
Project Number: HS21040188

Dear Mr. Grandits:

Eleven water samples were received from ALS Environmental, on 4/12/2021. 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. 2104258 and laboratory batch no(s). RE210415-5 and RA210504-1 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.

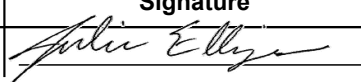
R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

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: 2104258 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210415-5, RA210504-1 | | | | | |
| # 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: 2104258 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210415-5, RA210504-1 | | | | | |
| # 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: 2104258 | | | | | |
| Reviewer Name: Julie Ellingson | | Prep Batch Number(s): RE210415-5, RA210504-1 | | | | | |
| # 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> | | | | | | | |



2104258

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: 2104258

Client Name: ALS Environmental

Client Project Name:

Client Project Number: HS21040188

Client PO Number: 10-15883

| Client Sample Number | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|----------------------|-------------------|------------|--------|----------------|----------------|
| MW-01 | 2104258-1 | | WATER | 05-Apr-21 | 14:45 |
| MW-02 | 2104258-2 | | WATER | 05-Apr-21 | 13:25 |
| MW-17 | 2104258-3 | | WATER | 05-Apr-21 | 15:35 |
| MW-19 | 2104258-4 | | WATER | 05-Apr-21 | 12:10 |
| MW-20 | 2104258-5 | | WATER | 05-Apr-21 | 11:20 |
| MW-21 | 2104258-6 | | WATER | 05-Apr-21 | 10:30 |
| MW-22 | 2104258-7 | | WATER | 05-Apr-21 | 9:40 |
| MW-27R | 2104258-8 | | WATER | 05-Apr-21 | 16:35 |
| MW-28 | 2104258-9 | | WATER | 05-Apr-21 | 17:25 |
| DUP-01 | 2104258-10 | | WATER | 05-Apr-21 | 10:00 |
| FB-01 | 2104258-11 | | WATER | 05-Apr-21 | 12:40 |



20258

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: 15883

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: 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: HS21040188
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|--|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21040188-01 | MW-01 | Groundwater | 05 Apr 2021 14:45 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 2. | HS21040188-02 | MW-02 | Groundwater | 05 Apr 2021 13:25 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 3. | HS21040188-03 | MW-17 | Groundwater | 05 Apr 2021 15:35 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 4. | HS21040188-04 | MW-19 | Groundwater | 05 Apr 2021 12:10 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 5. | HS21040188-05 | MW-20 | Groundwater | 05 Apr 2021 11:20 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 6. | HS21040188-06 | MW-21 | Groundwater | 05 Apr 2021 10:30 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |

RIGHT SOLUTIONS | RIGHT PARTNER



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15883

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|------------|--|------------------|--------------------|--------------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 7. | HS21040188-07 | MW-22 | Groundwater | 05 Apr 2021 09:40 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 8. | HS21040188-08 | MW-27R | Groundwater | 05 Apr 2021 16:35 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 9. | HS21040188-09 | MW-28 | Groundwater | 05 Apr 2021 17:25 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 10. | HS21040188-10 | DUP-01 | Groundwater | 05 Apr 2021 10:00 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| 11. | HS21040188-11 | FB-01 | Groundwater | 05 Apr 2021 12:40 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |
| | Report Combined RA 226/228 Value &the 2 Individual | | | 10 May 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

HS21040188-02 MS/MSD

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

Relinquished By: J. Malcom

Date/Time: 4/6/21 18:00

Received By: [Signature]

Date/Time: 4/6/21 1250

Cooler ID(s): _____

Temperature(s): _____



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: ALS Houston

Workorder No: 2104258

Project Manager: JME

Initials: TEM

Date: 4/13/21

| | | N/A | YES | NO |
|-----|--|-------------------------|----------|----|
| 1. | Are airbills / shipping documents present and/or removable? Tracking number: 9473 0842 1700 | | 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? Cooler #: <u>1</u> <u>2</u> Temperature (°C): <u>amb</u> <u>amb</u> # of custody seals on cooler: <u>2</u> <u>2</u> External µR/hr reading: <u>11</u> <u>11</u> Background µR/hr reading: <u>11</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES | IR gun used*: <u>#5</u> | RAD ONLY | x |

*** 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: TM

If applicable, was the client contacted? **NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: *Jodie Elly* 4/14/21

Client: ALS Environmental
 Project: HS21040188
 Sample ID: MW-01
 Legal Location:
 Collection Date: 4/5/2021 14:45

Date: 13-May-21
 Work Order: 2104258
 Lab ID: 2104258-1
 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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | 1.58 (+/- 0.55) | | 0.26 | pCi/l | NA | 4/29/2021 10:37 |
| <i>Carr: BARIUM</i> | 96.4 | | 40-110 | %REC | DL = NA | 4/29/2021 10:37 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 3.41 (+/- 0) | | 0.69 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | 1.83 (+/- 0.58) | Y1 | 0.69 | pCi/l | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | 101 | Y1 | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
 Project: HS21040188
 Sample ID: MW-02
 Legal Location:
 Collection Date: 4/5/2021 13:25

Date: 13-May-21
 Work Order: 2104258
 Lab ID: 2104258-2
 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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | 0.3 (+/- 0.19) | | 0.17 | pCi/l | NA | 4/29/2021 10:37 |
| <i>Carr: BARIUM</i> | 97.6 | | 40-110 | %REC | DL = NA | 4/29/2021 10:37 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 1.68 (+/- 0) | | 0.74 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | 1.38 (+/- 0.51) | | 0.74 | pCi/l | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | 95.3 | | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: MW-17
Legal Location:
Collection Date: 4/5/2021 15:35

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-3
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 (+/- 0.31) | | SOP 783 | | Prep Date: 4/15/2021 | PrepBy: TRB |
| <i>Carr: BARIUM</i> | 97.6 | | 0.2 pCi/l | | NA | 4/29/2021 10:37 |
| | | | 40-110 %REC | | DL = NA | 4/29/2021 10:37 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.74 pCi/l | | Prep Date: 5/4/2021 | PrepBy: JXH |
| Ra-228 | ND (+/- 0.35) | U | 0.74 pCi/l | | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | 97.1 | | 40-110 %REC | | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: MW-19
Legal Location:
Collection Date: 4/5/2021 12:10

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-4
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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | 0.29 (+/- 0.22) | | 0.24 | pCi/l | NA | 4/29/2021 10:37 |
| <i>Carr: BARIUM</i> | 95.1 | | 40-110 | %REC | DL = NA | 4/29/2021 10:37 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 1.19 (+/- 0) | | 0.75 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | 0.9 (+/- 0.43) | | 0.75 | pCi/l | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | 95.7 | | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: MW-20
Legal Location:
Collection Date: 4/5/2021 11:20

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-5
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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.18) | U | 0.33 | pCi/l | NA | 4/29/2021 10:37 |
| Carr: BARIUM | 96.9 | | 40-110 | %REC | DL = NA | 4/29/2021 10:37 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.79 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | ND (+/- 0.36) | U | 0.79 | pCi/l | NA | 5/10/2021 09:46 |
| Carr: BARIUM | 95.3 | | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
 Project: HS21040188
 Sample ID: MW-21
 Legal Location:
 Collection Date: 4/5/2021 10:30

Date: 13-May-21
 Work Order: 2104258
 Lab ID: 2104258-6
 Matrix: WATER
 Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|-----------------|------|--------------|-------|----------------------|-----------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | | | | |
| Ra-226 | 0.29 (+/- 0.2) | | SOP 783 | | Prep Date: 4/15/2021 | PrepBy: TRB |
| Carr: BARIUM | 95.6 | | 0.21 pCi/l | | NA | 4/29/2021 10:58 |
| | | | 40-110 %REC | | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | 1.25 (+/- 0) | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| Ra-228 | 0.96 (+/- 0.44) | | 0.73 pCi/l | | NA | 5/10/2021 09:46 |
| Carr: BARIUM | 98.3 | | 40-110 %REC | | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: MW-22
Legal Location:
Collection Date: 4/5/2021 09:40

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-7
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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | ND (+/- 0.12) | Y1,U | 0.22 | pCi/l | NA | 4/29/2021 10:58 |
| Carr: BARIUM | 101 | Y1 | 40-110 | %REC | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | 0.74 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | ND (+/- 0.37) | U | 0.74 | pCi/l | NA | 5/10/2021 09:46 |
| Carr: BARIUM | 96.4 | | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: MW-27R
Legal Location:
Collection Date: 4/5/2021 16:35

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-8
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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | 0.93 (+/- 0.39) | Y1 | 0.28 | pCi/l | NA | 4/29/2021 10:58 |
| <i>Carr: BARIUM</i> | <i>100</i> | Y1 | <i>40-110</i> | <i>%REC</i> | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 2.87 (+/- 0) | | 0.73 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | 1.94 (+/- 0.62) | | 0.73 | pCi/l | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | <i>98.1</i> | | <i>40-110</i> | <i>%REC</i> | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
 Project: HS21040188
 Sample ID: MW-28
 Legal Location:
 Collection Date: 4/5/2021 17:25

Date: 13-May-21
 Work Order: 2104258
 Lab ID: 2104258-9
 Matrix: WATER
 Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|----------------|------|--------------|-------|----------------------|-----------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | | | | |
| Ra-226 | 0.9 (+/- 0.44) | | SOP 783 | | Prep Date: 4/15/2021 | PrepBy: TRB |
| Carr: BARIUM | 94 | | 0.35 pCi/l | | NA | 4/29/2021 10:58 |
| | | | 40-110 %REC | | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | 6.3 (+/- 0) | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| Ra-228 | 5.4 (+/- 1.4) | | 0.8 pCi/l | | NA | 5/10/2021 09:46 |
| Carr: BARIUM | 91.9 | | 40-110 %REC | | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
 Project: HS21040188
 Sample ID: DUP-01
 Legal Location:
 Collection Date: 4/5/2021 10:00

Date: 13-May-21
 Work Order: 2104258
 Lab ID: 2104258-10
 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: 4/15/2021 | PrepBy: TRB |
| Ra-226 | 0.77 (+/- 0.35) | | 0.23 | pCi/l | NA | 4/29/2021 10:58 |
| Carr: BARIUM | 82.9 | | 40-110 | %REC | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| | | | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| COMBINED RADIUM (226+228) | 1.84 (+/- 0) | | 0.78 | pCi/l | NA | 5/10/2021 09:46 |
| Ra-228 | 1.07 (+/- 0.47) | | 0.78 | pCi/l | NA | 5/10/2021 09:46 |
| Carr: BARIUM | 96.4 | | 40-110 | %REC | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: FB-01
Legal Location:
Collection Date: 4/5/2021 12:40

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-11
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|-----------------|------|----------------|-------|----------------------|-----------------|
| Radium-226 by Radon Emanation - Method 903.1 | | | | | | |
| Ra-226 | 0.42 (+/- 0.22) | | SOP 783 | | Prep Date: 4/15/2021 | PrepBy: TRB |
| <i>Carr: BARIUM</i> | 97.4 | | 0.15 pCi/l | | NA | 4/29/2021 10:58 |
| | | | 40-110 %REC | | DL = NA | 4/29/2021 10:58 |
| Radium-228 Analysis by GFPC | | | | | | |
| COMBINED RADIUM (226+228) | ND (+/- 0) | U | SOP 724 | | Prep Date: 5/4/2021 | PrepBy: JXH |
| Ra-228 | ND (+/- 0.35) | U | 0.76 pCi/l | | NA | 5/10/2021 09:46 |
| <i>Carr: BARIUM</i> | 97.7 | | 40-110 %REC | | DL = NA | 5/10/2021 09:46 |

Client: ALS Environmental
Project: HS21040188
Sample ID: FB-01
Legal Location:
Collection Date: 4/5/2021 12:40

Date: 13-May-21
Work Order: 2104258
Lab ID: 2104258-11
Matrix: WATER
Percent Moisture:

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|----------|--------|------|--------------|-------|-----------------|---------------|
|----------|--------|------|--------------|-------|-----------------|---------------|

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: 5/13/2021 12:24:

Client: ALS Environmental
 Work Order: 2104258
 Project: HS21040188

QC BATCH REPORT

Batch ID: **RE210415-5-1** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

DUP Sample ID: **2104258-2** Units: **pCi/l** Analysis Date: **4/29/2021 10:37**
 Client ID: **MW-02** Run ID: **RE210415-5A** Prep Date: **4/15/2021** 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 (+/- 0.25) | 0.25 | | | | | | 0.3 | 0.51 | 2.13 | |
| Carr: BARIUM | 14580 | | 14980 | | 97.3 | 40-110 | | 14630 | | | |

The following samples were analyzed in this batch:

Client: ALS Environmental
 Work Order: 2104258
 Project: HS21040188

QC BATCH REPORT

Batch ID: **RE210415-5-2** Instrument ID: **Alpha Scin** Method: **Radium-226 by Radon Emanation**

| LCS | | Sample ID: RE210415-5 | | Units: pCi/l | | Analysis Date: 4/29/2021 11:18 | | | | | |
|--------------|-------------|------------------------------|---------|---------------------|------|---------------------------------------|----------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RE210415-5A | | | | Prep Date: 4/15/2021 | | 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 (+/- 11) | 0 | 46.79 | | 90.4 | 67-120 | | | | | P |
| Carr: BARIUM | 14680 | | 14900 | | 98.6 | 40-110 | | | | | |

| LCSD | | Sample ID: RE210415-5 | | Units: pCi/l | | Analysis Date: 4/29/2021 11:18 | | | | | |
|--------------|-------------|------------------------------|---------|---------------------|------|---------------------------------------|----------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RE210415-5A | | | | Prep Date: 4/15/2021 | | DF: NA | | | |
| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
| Ra-226 | 47 (+/- 12) | 0 | 46.79 | | 100 | 67-120 | | 42 | 0.3 | 2.13 | P |
| Carr: BARIUM | 14850 | | 14900 | | 99.7 | 40-110 | | 14680 | | | |

| MB | | Sample ID: RE210415-5 | | Units: pCi/l | | Analysis Date: 4/29/2021 10:58 | | | | | |
|--------------|--------|------------------------------|---------|---------------------|------|---------------------------------------|----------------|---------------|-----|-----------|------|
| Client ID: | | Run ID: RE210415-5A | | | | Prep Date: 4/15/2021 | | 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 | 0.25 | | | | | | | | | Y1,U |
| Carr: BARIUM | 15000 | | 14900 | | 101 | 40-110 | | | | | Y1 |

The following samples were analyzed in this batch:

| | | |
|------------|------------|-----------|
| 2104258-1 | 2104258-2 | 2104258-3 |
| 2104258-4 | 2104258-5 | 2104258-6 |
| 2104258-7 | 2104258-8 | 2104258-9 |
| 2104258-10 | 2104258-11 | |

Client: ALS Environmental
 Work Order: 2104258
 Project: HS21040188

QC BATCH REPORT

Batch ID: RA210504-1-1 Instrument ID: GASPROP Method: Radium-228 Analysis by GFPC

DUP Sample ID: 2104258-2 Units: ug Analysis Date: 5/10/2021 09:46
 Client ID: MW-02 Run ID: RA210504-1A Prep Date: 5/4/2021 DF: NA

| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
|---------------------------|----------------|-------------|---------|---------------|------|---------------|----------------|---------------|------|-----------|------|
| Carr: BARIUM | 30850 | | 31940 | | 96.6 | 40-110 | | 30450 | | | |
| COMBINED RADIUM (226+228) | 1.36 (+/- 0) | 0.74 | | | | | | 1.68 | | | |
| Ra-228 | 0.9 (+/- 0.43) | 0.74 | | | | | | 1.38 | 0.73 | 2.13 | |

LCS Sample ID: RA210504-1 Units: ug Analysis Date: 5/10/2021 09:46
 Client ID: Run ID: RA210504-1A Prep Date: 5/4/2021 DF: NA

| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
|--------------|----------------|-------------|---------|---------------|------|---------------|----------------|---------------|-----|-----------|------|
| Carr: BARIUM | 31540 | | 31850 | | 99 | 40-110 | | | | | |
| Ra-228 | 22.6 (+/- 5.3) | 0.8 | 22.01 | | 103 | 70-130 | | | | | P |

MB Sample ID: RA210504-1 Units: ug Analysis Date: 5/10/2021 09:46
 Client ID: Run ID: RA210504-1A Prep Date: 5/4/2021 DF: NA

| Analyte | Result | ReportLimit | SPK Val | SPK Ref Value | %REC | Control Limit | Decision Level | DER Ref Value | DER | DER Limit | Qual |
|--------------|--------|-------------|---------|---------------|------|---------------|----------------|---------------|-----|-----------|------|
| Carr: BARIUM | 31840 | | 31850 | | 100 | 40-110 | | | | | |
| Ra-228 | ND | 0.8 | | | | | | | | | U |

The following samples were analyzed in this batch:

| | | |
|------------|------------|-----------|
| 2104258-1 | 2104258-2 | 2104258-3 |
| 2104258-4 | 2104258-5 | 2104258-6 |
| 2104258-7 | 2104258-8 | 2104258-9 |
| 2104258-10 | 2104258-11 | |



15-Apr-2021

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

Re: **HS21040188**

Work Order: **21040613**

Dear Corey,

ALS Environmental received 11 samples on 07-Apr-2021 02:30 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 24.

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 The logo icon for ALS Environmental, a stylized blue triangle with a yellow flame-like shape inside.

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RIGHT SOLUTIONS RIGHT PARTNER
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Page 72 of 95

Client: ALS Environmental
Project: HS21040188
Work Order: 21040613

**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_210412C | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21040612, 21040613 | | | | | |
| Analyst Name: QN | | Date 4/12/21 | Reviewer Name: RM | | Date: 4/13/21 | | |
| | 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: HS21040188
Work Order: 21040613

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21040613-01 | HS21040188-01 | Groundwater | MW-01 | 4/5/2021 14:45 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-02 | HS21040188-02 | Groundwater | MW-02 | 4/5/2021 13:25 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-03 | HS21040188-03 | Groundwater | MW-17 | 4/5/2021 15:35 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-04 | HS21040188-04 | Groundwater | MW-19 | 4/5/2021 12:10 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-05 | HS21040188-05 | Groundwater | MW-20 | 4/5/2021 11:20 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-06 | HS21040188-06 | Groundwater | MW-21 | 4/5/2021 10:30 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-07 | HS21040188-07 | Groundwater | MW-22 | 4/5/2021 09:40 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-08 | HS21040188-08 | Groundwater | MW-27R | 4/5/2021 16:35 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-09 | HS21040188-09 | Groundwater | MW-28 | 4/5/2021 17:25 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-10 | HS21040188-10 | Groundwater | DUP-01 | 4/5/2021 10:00 | 4/7/2021 14:30 | <input type="checkbox"/> |
| 21040613-11 | HS21040188-11 | Groundwater | FB-01 | 4/5/2021 12:40 | 4/7/2021 14:30 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21040188
WorkOrder: 21040613

**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: 21040613
 Client: ALS Environmental
 Project: HS21040188

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|---|------------------|-------------|----------------------|-----------|-----------|--------------------|
| Batch ID R313867 Test Name: Fluoride | | | | | | |
| 21040613-01A | HS21040188-01 | Groundwater | 4/5/2021 2:45:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-02A | HS21040188-02 | | 4/5/2021 1:25:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-03A | HS21040188-03 | | 4/5/2021 3:35:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-04A | HS21040188-04 | | 4/5/2021 12:10:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-05A | HS21040188-05 | | 4/5/2021 11:20:00 AM | | | 4/12/2021 05:23 PM |
| 21040613-06A | HS21040188-06 | | 4/5/2021 10:30:00 AM | | | 4/12/2021 05:23 PM |
| 21040613-07A | HS21040188-07 | | 4/5/2021 9:40:00 AM | | | 4/12/2021 05:23 PM |
| 21040613-08A | HS21040188-08 | | 4/5/2021 4:35:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-09A | HS21040188-09 | | 4/5/2021 5:25:00 PM | | | 4/12/2021 05:23 PM |
| 21040613-10A | HS21040188-10 | | 4/5/2021 10:00:00 AM | | | 4/12/2021 05:23 PM |
| 21040613-11A | HS21040188-11 | | 4/5/2021 12:40:00 PM | | | 4/12/2021 05:23 PM |

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-01
Collection Date: 4/5/2021 02:45 PM

Work Order: 21040613
Lab ID: 21040613-01
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | MQL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|-----------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: QTN |
| Fluoride | 0.070 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-02
Collection Date: 4/5/2021 01:25 PM

Work Order: 21040613
Lab ID: 21040613-02
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-03
Collection Date: 4/5/2021 03:35 PM

Work Order: 21040613
Lab ID: 21040613-03
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-04
Collection Date: 4/5/2021 12:10 PM

Work Order: 21040613
Lab ID: 21040613-04
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | MLL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-05
Collection Date: 4/5/2021 11:20 AM

Work Order: 21040613
Lab ID: 21040613-05
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.22 | | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-06
Collection Date: 4/5/2021 10:30 AM

Work Order: 21040613
Lab ID: 21040613-06
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-07
Collection Date: 4/5/2021 09:40 AM

Work Order: 21040613
Lab ID: 21040613-07
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-08
Collection Date: 4/5/2021 04:35 PM

Work Order: 21040613
Lab ID: 21040613-08
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 | 4/12/2021 17:23 |

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-09
Collection Date: 4/5/2021 05:25 PM

Work Order: 21040613
Lab ID: 21040613-09
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.19 | | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11

Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-10
Collection Date: 4/5/2021 10:00 AM

Work Order: 21040613
Lab ID: 21040613-10
Matrix: GROUNDWATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-------|------|-------|-----------------|-----------------|
| FLUORIDE | | | | | | | |
| Fluoride | 0.060 | J | 0.058 | 0.10 | mg/L | 1 | 4/12/2021 17:23 |

Method: A4500-F C-11 Analyst: QTN

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

ALS Group, USA

Date: 15-Apr-21

Client: ALS Environmental
Project: HS21040188
Sample ID: HS21040188-11
Collection Date: 4/5/2021 12:40 PM

Work Order: 21040613
Lab ID: 21040613-11
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 | 4/12/2021 17:23 |

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

WorkOrder: 21040613
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: 21040613
 Project: HS21040188

QC BATCH REPORT

Batch ID: **R313867** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R313867-R313867 | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297024 | | 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-R313867-R313867 | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297025 | | 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 | 104 | 80-120 | 0 | | | |

| MS | | Sample ID: 21040612-02AMS | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297035 | | Prep Date: | | DF: 1 |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Fluoride | 5.09 | 0.10 | 5 | 0.03 | 101 | 75-125 | 0 | | | |

| MS | | Sample ID: 21040613-02AMS | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: HS21040188-02 | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297048 | | Prep Date: | | DF: 1 |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Fluoride | 5.09 | 0.10 | 5 | 0.03 | 101 | 75-125 | 0 | | | |

| MSD | | Sample ID: 21040612-02AMSD | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297036 | | 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 | 0.03 | 102 | 75-125 | 5.09 | 0.588 | 20 | |

| MSD | | Sample ID: 21040613-02AMSD | | | | Units: mg/L | | Analysis Date: 4/12/2021 05:23 PM | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|
| Client ID: HS21040188-02 | | Run ID: TITRATOR 1_210412C | | | | SeqNo: 7297049 | | 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 | 0.03 | 102 | 75-125 | 5.09 | 0.588 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21040613-01A | 21040613-02A | 21040613-03A |
| 21040613-04A | 21040613-05A | 21040613-06A |
| 21040613-07A | 21040613-08A | 21040613-09A |
| 21040613-10A | 21040613-11A | |

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



21040013

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: 15882

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: 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: HS21040188
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|---------------------------------|------------------|-------------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21040188-01 | MW-01 | Groundwater | 05 Apr 2021 14:45 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 2. | HS21040188-02 | MW-02 | Groundwater | 05 Apr 2021 13:25 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 3. | HS21040188-03 | MW-17 | Groundwater | 05 Apr 2021 15:35 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 4. | HS21040188-04 | MW-19 | Groundwater | 05 Apr 2021 12:10 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 5. | HS21040188-05 | MW-20 | Groundwater | 05 Apr 2021 11:20 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 6. | HS21040188-06 | MW-21 | Groundwater | 05 Apr 2021 10:30 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 7. | HS21040188-07 | MW-22 | Groundwater | 05 Apr 2021 09:40 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 8. | HS21040188-08 | MW-27R | Groundwater | 05 Apr 2021 16:35 |
| | Fluoride by ISE 4500. Equis EDD | | | 10 May 2021 |
| 9. | HS21040188-09 | MW-28 | Groundwater | 05 Apr 2021 17:25 |

RIGHT SOLUTIONS | RIGHT PARTNER



Subcontract Chain of Custody

SAMPLING STATE: Texas

COC ID: 15882

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--------------------|---------------------------------|-------------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| | Fluoride by ISE 4500. Equis EDD | | 10 May 2021 |
| 10. HS21040188-10 | DUP-01 | Groundwater | 05 Apr 2021 10:00 |
| | Fluoride by ISE 4500. Equis EDD | | 10 May 2021 |
| 11. HS21040188-11 | FB-01 | Groundwater | 05 Apr 2021 12:40 |
| | Fluoride by ISE 4500. Equis EDD | | 10 May 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

HS21040188-02 MS/MSD
Import data from HS21040187

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

Relinquished By: J. Mancini
 Received By: [Signature]
 Cooler ID(s): _____

Date/Time: 4/6/21 18:00
 Date/Time: 4/7/21 1430
 Temperature(s): IR 1.6°C

pH 26

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **07-Apr-21 14:30**

Work Order: **21040613**

Received by: **DS**

Checklist completed by Diane Shaw 08-Apr-21
eSignature Date

Reviewed by: Chad Whelton 08-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): 1.6/1.6 c IR1

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 4/8/2021 7:10:16 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

November 09, 2021

Lori Burris
TRC Corporation
14701 St. Mary's Lane
Suite 500
Houston, TX 77079

Work Order: **HS21100833**

Laboratory Results for: **NRG Limestone - Appendix III**

Dear Lori Burris,

ALS Environmental received 12 sample(s) on Oct 14, 2021 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: COREY.GRANDITS
Corey Grandits
Project Manager

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

**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 Limestone - Appendix III
WorkOrder: HS21100833

**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: 11/09/2021 | | | | |
|--|----------------|--|--|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | | Laboratory Job Number: HS21100833 | | | | |
| Reviewer Name: Corey Grandits | | | Prep Batch Number(s): 171472,R393933,R394145,R394355 | | | | |
| # 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: 11/09/2021 | | | | | |
|--|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21100833 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 171472,R393933,R394145,R394355 | | | | | |
| # 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: 11/09/2021 |
|--|--|--|
| Project Name: NRG Limestone - Appendix III | | Laboratory Job Number: HS21100833 |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 171472,R393933,R394145,R394355 |
| ER# ⁵ | Description | |
| 1 | Batch 171472, Metals Method SW6020, sample MW-02, MSD recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount. | |
| 2 | <p>The analysis for fluoride was subcontracted to ALS Holland, MI. Final report and Laboratory Review Checklist attached.</p> <p>Revision I - This report was revised to correct the project/site name to reflect the chain of custody.</p> <p>Revision II - This report was revised to update the subcontract ALS Holland report; select samples were re-analyzed for Fluoride. See revised report narrative for details.</p> | |
| 3 | See Run Log and CCB Exceptions Report. | |
| 4 | Batch 171472, Metals Method SW6020, sample MW-02, PDS recovered outside the control limit for Calcium, however, the result in the parent sample is greater than 4x the spike amount. | |
| <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);</p> <p>NA = Not Applicable;</p> <p>NR = Not Reviewed;</p> <p>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
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833
Start Date: 20-Oct-2021 **End Date:** 20-Oct-2021

Run ID: ICPMS06_393814
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|----------|
| ICV | 1 | 20-Oct-2021 11:40 | 037_ICV.d | B CA |
| ICB | 1 | 20-Oct-2021 11:42 | 038_ICB.d | B CA |
| LLICV2 | 1 | 20-Oct-2021 11:44 | 039LCV2.d | B CA |
| LLICV5 | 1 | 20-Oct-2021 11:46 | 040LCV5.d | B CA |
| ICSA | 1 | 20-Oct-2021 11:54 | 042ICSA.d | B CA |
| ICSAB | 1 | 20-Oct-2021 11:56 | 043ICSB.d | B CA |
| CCV 1 | 1 | 20-Oct-2021 12:24 | 047_CCV.d | B CA |
| CCB 1 | 1 | 20-Oct-2021 12:26 | 048_CCB.d | B CA |
| CCV 2 | 1 | 20-Oct-2021 12:48 | 059_CCV.d | B CA |
| CCB 2 | 1 | 20-Oct-2021 12:50 | 060_CCB.d | B CA |
| CCV 3 | 1 | 20-Oct-2021 13:13 | 071_CCV.d | B CA |
| CCB 3 | 1 | 20-Oct-2021 13:14 | 072_CCB.d | B CA |
| CCV 4 | 1 | 20-Oct-2021 13:36 | 083_CCV.d | B CA |
| CCB 4 | 1 | 20-Oct-2021 13:38 | 084_CCB.d | B CA |
| CCV 5 | 1 | 20-Oct-2021 14:44 | 107_CCV.d | B CA |
| CCB 5 | 1 | 20-Oct-2021 14:46 | 108_CCB.d | B CA |
| MBLK-171472 | 1 | 20-Oct-2021 14:49 | 109SMPL.d | B CA |
| LCS-171472 | 1 | 20-Oct-2021 14:51 | 110SMPL.d | B CA |
| MW-01 | 1 | 20-Oct-2021 14:53 | 111SMPL.d | B CA |
| MW-02 | 1 | 20-Oct-2021 14:54 | 112SMPL.d | B CA |
| MW-02SD | 5 | 20-Oct-2021 14:56 | 113SMPL.d | B CA |
| MW-02MS | 1 | 20-Oct-2021 14:58 | 114SMPL.d | B CA |
| MW-02MSD | 1 | 20-Oct-2021 15:00 | 115SMPL.d | B CA |
| MW-02PDS | 1 | 20-Oct-2021 15:02 | 116SMPL.d | CA |
| MW-17 | 1 | 20-Oct-2021 15:04 | 117SMPL.d | B CA |
| CCV 6 | 1 | 20-Oct-2021 15:08 | 119_CCV.d | B CA |
| CCB 6 | 1 | 20-Oct-2021 15:10 | 120_CCB.d | B CA |
| MW-18 | 1 | 20-Oct-2021 15:12 | 121SMPL.d | B CA |
| MW-19 | 1 | 20-Oct-2021 15:14 | 122SMPL.d | B CA |
| MW-20 | 1 | 20-Oct-2021 15:16 | 123SMPL.d | B CA |
| MW-21 | 1 | 20-Oct-2021 15:18 | 124SMPL.d | B CA |
| MW-22 | 1 | 20-Oct-2021 15:20 | 125SMPL.d | B CA |
| MW-27R | 1 | 20-Oct-2021 15:22 | 126SMPL.d | B |
| MW-28 | 1 | 20-Oct-2021 15:24 | 127SMPL.d | B |
| Dup-01 | 1 | 20-Oct-2021 15:26 | 128SMPL.d | B CA |
| FB-01 | 1 | 20-Oct-2021 15:28 | 129SMPL.d | B CA |
| CCV 7 | 1 | 20-Oct-2021 15:32 | 131_CCV.d | B CA |
| CCB 7 | 1 | 20-Oct-2021 15:34 | 132_CCB.d | B CA |
| CCB 8 | 1 | 20-Oct-2021 16:28 | 144_CCB.d | B CA |
| CCV 8 | 1 | 20-Oct-2021 16:38 | 146_CCV.d | B CA |
| CCV 9 | 1 | 20-Oct-2021 17:03 | 156_CCV.d | B CA |
| CCB 9 | 1 | 20-Oct-2021 17:05 | 157_CCB.d | B CA |
| CCV 10 | 1 | 20-Oct-2021 17:27 | 168_CCV.d | B CA |
| CCB 10 | 1 | 20-Oct-2021 17:28 | 169_CCB.d | B CA |
| CCV 11 | 1 | 20-Oct-2021 17:50 | 180_CCV.d | B CA |
| CCB 11 | 1 | 20-Oct-2021 17:52 | 181_CCB.d | B CA |
| CCV 12 | 1 | 20-Oct-2021 18:15 | 192_CCV.d | B CA |
| CCB 12 | 1 | 20-Oct-2021 18:17 | 193_CCB.d | B CA |
| CCV 13 | 1 | 20-Oct-2021 18:29 | 199_CCV.d | B CA |
| CCB 13 | 1 | 20-Oct-2021 18:31 | 200_CCB.d | B CA |

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FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833
Start Date: 20-Oct-2021 End Date: 20-Oct-2021

Run ID:ICPMS06_393814
Instrument:ICPMS06
Method:SW6020A

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| CCV 14 | 1 | 20-Oct-2021 19:29 | 204_CCV.d | B CA |
| CCB 14 | 1 | 20-Oct-2021 19:31 | 205_CCB.d | B CA |
| CCV 15 | 1 | 20-Oct-2021 19:49 | 214_CCV.d | B CA |
| CCB 15 | 1 | 20-Oct-2021 19:50 | 215_CCB.d | B CA |
| CCB 16 | 1 | 20-Oct-2021 20:06 | 223_CCB.d | B CA |
| CCV 16 | 1 | 20-Oct-2021 20:22 | 226_CCV.d | B CA |
| CCB 17 | 1 | 20-Oct-2021 20:40 | 235_CCB.d | B CA |
| CCV 17 | 1 | 20-Oct-2021 20:52 | 237_CCV.d | B CA |
| CCV 18 | 1 | 20-Oct-2021 21:09 | 245_CCV.d | B CA |
| CCB 18 | 1 | 20-Oct-2021 21:10 | 246_CCB.d | B CA |
| CCV 19 | 1 | 20-Oct-2021 21:33 | 257_CCV.d | B CA |
| CCB 19 | 1 | 20-Oct-2021 21:35 | 258_CCB.d | B CA |
| CCV 20 | 1 | 20-Oct-2021 21:57 | 269_CCV.d | B CA |
| CCB 20 | 1 | 20-Oct-2021 21:59 | 270_CCB.d | B CA |
| CCV 21 | 1 | 20-Oct-2021 22:16 | 278_CCV.d | B CA |
| CCB 21 | 1 | 20-Oct-2021 22:18 | 279_CCB.d | B CA |
| CCV 22 | 1 | 20-Oct-2021 22:40 | 290_CCV.d | B CA |
| CCB 22 | 1 | 20-Oct-2021 22:42 | 291_CCB.d | B CA |
| CCV 23 | 1 | 20-Oct-2021 23:04 | 302_CCV.d | B CA |
| CCB 23 | 1 | 20-Oct-2021 23:06 | 303_CCB.d | B CA |
| CCV 24 | 1 | 20-Oct-2021 23:10 | 305_CCV.d | B CA |
| CCB 24 | 1 | 20-Oct-2021 23:12 | 306_CCB.d | B CA |
| LLCCV2 | 1 | 20-Oct-2021 23:14 | 307LCV2.d | B CA |
| LLCCV5 | 1 | 20-Oct-2021 23:16 | 308LCV5.d | B CA |
| ICSA | 1 | 20-Oct-2021 23:18 | 309ICSA.d | B CA |
| ICSAB | 1 | 20-Oct-2021 23:20 | 310ICSB.d | B CA |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833
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 | CA |
| LLICV5 | 1 | 21-Oct-2021 11:40 | 021LCV5.d | CA |
| ICV | 1 | 21-Oct-2021 12:05 | 023_ICV.d | B CA |
| ICSA | 1 | 21-Oct-2021 12:07 | 024ICSA.d | CA |
| ICSAB | 1 | 21-Oct-2021 12:09 | 025ICSB.d | 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 |
| MW-27R | 20 | 21-Oct-2021 12:28 | 030SMPL.d | CA |
| MW-28 | 20 | 21-Oct-2021 12:30 | 031SMPL.d | 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 |
| 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 |
| 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 | CA |
| LLICCV2 | 1 | 21-Oct-2021 22:40 | 258LCV2.d | CA |

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FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833
Start Date: 21-Oct-2021 **End Date:** 22-Oct-2021

Run ID: ICPMS06_393911
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | CA |
| LLCCV5 | 1 | 22-Oct-2021 00:43 | 319LCV5.d | CA |
| ICSA | 1 | 22-Oct-2021 00:45 | 320ICSA.d | CA |
| ICSAB | 1 | 22-Oct-2021 00:47 | 321ICSB.d | CA |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

Run ID:ICPMS06_393814
 Instrument:ICPMS06
 Method:SW6020A

| | | | | |
|--------|-------------------------|---------------|------------|---------------------|
| CCB 4 | Date: 20-Oct-2021 13:38 | Seq: 6328901 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 17.19 | 11 | 20 |
| CCB 8 | Date: 20-Oct-2021 16:28 | Seq: 6329818 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 34.28 | 34 | 500 |
| CCB 10 | Date: 20-Oct-2021 17:28 | Seq: 6329849 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 43.12 | 34 | 500 |
| CCB 11 | Date: 20-Oct-2021 17:52 | Seq: 6329861 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 42.24 | 34 | 500 |
| CCB 16 | Date: 20-Oct-2021 20:06 | Seq: 6329916 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Boron | 13.27 | 11 | 20 |
| CCB 20 | Date: 20-Oct-2021 21:59 | Seq: 6329963 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 51.21 | 34 | 500 |
| CCB 21 | Date: 20-Oct-2021 22:18 | Seq: 6329972 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 155.9 | 34 | 500 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

Run ID:ICPMS06_393911
 Instrument:ICPMS06
 Method:SW6020A

| CCB | 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 |
| | Calcium | 41.86 | 34 | 500 |
| CCB 19 | 21-Oct-2021 21:36 | 6332155 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | -48.94 | 34 | 500 |
| CCB 23 | 21-Oct-2021 23:10 | 6332195 | 1 | ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Calcium | 46.37 | 34 | 500 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
Work Order: HS21100833

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|--------|-------|-------------------|-------------------|--------------------------|
| HS21100833-01 | MW-01 | Water | | 13-Oct-2021 13:40 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-02 | MW-02 | Water | | 13-Oct-2021 12:55 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-03 | MW-17 | Water | | 13-Oct-2021 14:20 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-04 | MW-18 | Water | | 13-Oct-2021 12:15 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-05 | MW-19 | Water | | 13-Oct-2021 11:25 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-06 | MW-20 | Water | | 13-Oct-2021 10:45 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-07 | MW-21 | Water | | 13-Oct-2021 10:05 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-08 | MW-22 | Water | | 13-Oct-2021 09:25 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-09 | MW-27R | Water | | 13-Oct-2021 15:30 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-10 | MW-28 | Water | | 13-Oct-2021 15:30 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-11 | Dup-01 | Water | | 13-Oct-2021 10:00 | 14-Oct-2021 10:00 | <input type="checkbox"/> |
| HS21100833-12 | FB-01 | Water | | 13-Oct-2021 11:40 | 14-Oct-2021 10:00 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-01
 Collection Date: 13-Oct-2021 13:40

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-01
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | ML | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0377 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 14:53 |
| Calcium | 52.3 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 14:53 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 283 | | 1.00 | 2.50 | mg/L | 5 | 25-Oct-2021 08:49 |
| Sulfate | 0.995 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 12:24 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 854 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-02
 Collection Date: 13-Oct-2021 12:55

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-02
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0444 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 14:54 |
| Calcium | 109 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 14:54 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 408 | | 2.00 | 5.00 | mg/L | 10 | 25-Oct-2021 08:26 |
| Sulfate | 162 | | 2.00 | 5.00 | mg/L | 10 | 25-Oct-2021 08:26 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 1,240 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-17
 Collection Date: 13-Oct-2021 14:20

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-03
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0297 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:04 |
| Calcium | 2.84 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:04 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 9.27 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:04 |
| Sulfate | 7.25 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:04 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 116 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-18
 Collection Date: 13-Oct-2021 12:15

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-04
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0390 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:12 |
| Calcium | 59.7 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:12 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 5.46 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:11 |
| Sulfate | 29.7 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:11 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 342 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-19
 Collection Date: 13-Oct-2021 11:25

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-05
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0387 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:14 |
| Calcium | 33.2 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:14 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 39.6 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 09:18 |
| Sulfate | 91.2 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 09:18 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 324 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-20
 Collection Date: 13-Oct-2021 10:45

ANALYTICAL REPORT

WorkOrder:HS21100833
 Lab ID:HS21100833-06
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0418 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:16 |
| Calcium | 30.8 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:16 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 19.2 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:26 |
| Sulfate | 36.6 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 09:26 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 336 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-21
 Collection Date: 13-Oct-2021 10:05

ANALYTICAL REPORT

WorkOrder:HS21100833
 Lab ID:HS21100833-07
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.733 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:18 |
| Calcium | 82.0 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:18 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 29.2 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 10:10 |
| Sulfate | 361 | | 2.00 | 5.00 | mg/L | 10 | 25-Oct-2021 12:31 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 632 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-22
 Collection Date: 13-Oct-2021 09:25

ANALYTICAL REPORT

WorkOrder:HS21100833
 Lab ID:HS21100833-08
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0450 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:20 |
| Calcium | 53.4 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:20 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 38.4 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 10:18 |
| Sulfate | 107 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 10:18 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 336 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-27R
 Collection Date: 13-Oct-2021 15:30

ANALYTICAL REPORT

WorkOrder:HS21100833
 Lab ID:HS21100833-09
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.170 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:22 |
| Calcium | 380 | | 0.680 | 10.0 | mg/L | 20 | 21-Oct-2021 12:28 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 1,760 | | 10.0 | 25.0 | mg/L | 50 | 25-Oct-2021 10:25 |
| Sulfate | 619 | | 10.0 | 25.0 | mg/L | 50 | 25-Oct-2021 10:25 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 3,620 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: MW-28
 Collection Date: 13-Oct-2021 15:30

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-10
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.187 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:24 |
| Calcium | 527 | | 0.680 | 10.0 | mg/L | 20 | 21-Oct-2021 12:30 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 2,500 | | 10.0 | 25.0 | mg/L | 50 | 25-Oct-2021 10:32 |
| Sulfate | 567 | | 10.0 | 25.0 | mg/L | 50 | 25-Oct-2021 10:32 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 4,820 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: Dup-01
 Collection Date: 13-Oct-2021 10:00

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-11
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|--|--------------|-----------------------|--------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | 0.0430 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:26 |
| Calcium | 36.2 | | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:26 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 40.1 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 10:40 |
| Sulfate | 92.4 | | 0.400 | 1.00 | mg/L | 2 | 25-Oct-2021 10:40 |
| TOTAL DISSOLVED SOLIDS BY SM2540C -2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | 352 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Client: TRC Corporation
 Project: NRG Limestone - Appendix III
 Sample ID: FB-01
 Collection Date: 13-Oct-2021 11:40

ANALYTICAL REPORT
 WorkOrder:HS21100833
 Lab ID:HS21100833-12
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|--------------|-----------------------|---------------|----------------------------|-------------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Oct-2021 | | Analyst: JHD | |
| Boron | < 0.0110 | | 0.0110 | 0.0200 | mg/L | 1 | 20-Oct-2021 15:28 |
| Calcium | 0.342 | J | 0.0340 | 0.500 | mg/L | 1 | 20-Oct-2021 15:28 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | < 0.200 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 10:47 |
| Sulfate | < 0.200 | | 0.200 | 0.500 | mg/L | 1 | 25-Oct-2021 10:47 |
| TOTAL DISSOLVED SOLIDS BY SM2540C-2011 | | Method:M2540C | | | | Analyst: SH | |
| Total Dissolved Solids (Residue, Filterable) | < 5.00 | | 5.00 | 10.0 | mg/L | 1 | 20-Oct-2021 15:35 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 28-Oct-2021 09:05 |

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

Batch ID: 171472 **Start Date:** 19 Oct 2021 12:30 **End Date:** 19 Oct 2021 16:30
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|------------------|
| HS21100833-01 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-02 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-03 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-04 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-05 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-06 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-07 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-08 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-09 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-10 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-11 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |
| HS21100833-12 | | 10 (mL) | 10 (mL) | 1 | 120 plastic HNO3 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|---|---------------|-------------------|----------------------|----|
| Batch ID: 171472 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Water | |
| HS21100833-01 | MW-01 | 13 Oct 2021 13:40 | | 19 Oct 2021 12:43 | 20 Oct 2021 14:53 | 1 |
| HS21100833-02 | MW-02 | 13 Oct 2021 12:55 | | 19 Oct 2021 12:43 | 20 Oct 2021 14:54 | 1 |
| HS21100833-03 | MW-17 | 13 Oct 2021 14:20 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:04 | 1 |
| HS21100833-04 | MW-18 | 13 Oct 2021 12:15 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:12 | 1 |
| HS21100833-05 | MW-19 | 13 Oct 2021 11:25 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:14 | 1 |
| HS21100833-06 | MW-20 | 13 Oct 2021 10:45 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:16 | 1 |
| HS21100833-07 | MW-21 | 13 Oct 2021 10:05 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:18 | 1 |
| HS21100833-08 | MW-22 | 13 Oct 2021 09:25 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:20 | 1 |
| HS21100833-09 | MW-27R | 13 Oct 2021 15:30 | | 19 Oct 2021 12:43 | 21 Oct 2021 12:28 | 20 |
| HS21100833-09 | MW-27R | 13 Oct 2021 15:30 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:22 | 1 |
| HS21100833-10 | MW-28 | 13 Oct 2021 15:30 | | 19 Oct 2021 12:43 | 21 Oct 2021 12:30 | 20 |
| HS21100833-10 | MW-28 | 13 Oct 2021 15:30 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:24 | 1 |
| HS21100833-11 | Dup-01 | 13 Oct 2021 10:00 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:26 | 1 |
| HS21100833-12 | FB-01 | 13 Oct 2021 11:40 | | 19 Oct 2021 12:43 | 20 Oct 2021 15:28 | 1 |
| Batch ID: R393933 (0) | | Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011 | | | Matrix: Water | |
| HS21100833-01 | MW-01 | 13 Oct 2021 13:40 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-02 | MW-02 | 13 Oct 2021 12:55 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-03 | MW-17 | 13 Oct 2021 14:20 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-04 | MW-18 | 13 Oct 2021 12:15 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-05 | MW-19 | 13 Oct 2021 11:25 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-06 | MW-20 | 13 Oct 2021 10:45 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-07 | MW-21 | 13 Oct 2021 10:05 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-08 | MW-22 | 13 Oct 2021 09:25 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-09 | MW-27R | 13 Oct 2021 15:30 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-10 | MW-28 | 13 Oct 2021 15:30 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-11 | Dup-01 | 13 Oct 2021 10:00 | | | 20 Oct 2021 15:35 | 1 |
| HS21100833-12 | FB-01 | 13 Oct 2021 11:40 | | | 20 Oct 2021 15:35 | 1 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|--|---------------|-----------|----------------------|----|
| Batch ID: R394145 (0) | | Test Name : ANIONS BY E300.0, REV 2.1, 1993 | | | Matrix: Water | |
| HS21100833-01 | MW-01 | 13 Oct 2021 13:40 | | | 25 Oct 2021 12:24 | 1 |
| HS21100833-01 | MW-01 | 13 Oct 2021 13:40 | | | 25 Oct 2021 08:49 | 5 |
| HS21100833-02 | MW-02 | 13 Oct 2021 12:55 | | | 25 Oct 2021 08:26 | 10 |
| HS21100833-03 | MW-17 | 13 Oct 2021 14:20 | | | 25 Oct 2021 09:04 | 1 |
| HS21100833-04 | MW-18 | 13 Oct 2021 12:15 | | | 25 Oct 2021 09:11 | 1 |
| HS21100833-05 | MW-19 | 13 Oct 2021 11:25 | | | 25 Oct 2021 09:18 | 2 |
| HS21100833-06 | MW-20 | 13 Oct 2021 10:45 | | | 25 Oct 2021 09:26 | 1 |
| HS21100833-07 | MW-21 | 13 Oct 2021 10:05 | | | 25 Oct 2021 12:31 | 10 |
| HS21100833-07 | MW-21 | 13 Oct 2021 10:05 | | | 25 Oct 2021 10:10 | 2 |
| HS21100833-08 | MW-22 | 13 Oct 2021 09:25 | | | 25 Oct 2021 10:18 | 2 |
| HS21100833-09 | MW-27R | 13 Oct 2021 15:30 | | | 25 Oct 2021 10:25 | 50 |
| HS21100833-10 | MW-28 | 13 Oct 2021 15:30 | | | 25 Oct 2021 10:32 | 50 |
| HS21100833-11 | Dup-01 | 13 Oct 2021 10:00 | | | 25 Oct 2021 10:40 | 2 |
| HS21100833-12 | FB-01 | 13 Oct 2021 11:40 | | | 25 Oct 2021 10:47 | 1 |
| Batch ID: R394355 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Water | |
| HS21100833-01 | MW-01 | 13 Oct 2021 13:40 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-02 | MW-02 | 13 Oct 2021 12:55 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-03 | MW-17 | 13 Oct 2021 14:20 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-04 | MW-18 | 13 Oct 2021 12:15 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-05 | MW-19 | 13 Oct 2021 11:25 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-06 | MW-20 | 13 Oct 2021 10:45 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-07 | MW-21 | 13 Oct 2021 10:05 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-08 | MW-22 | 13 Oct 2021 09:25 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-09 | MW-27R | 13 Oct 2021 15:30 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-10 | MW-28 | 13 Oct 2021 15:30 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-11 | Dup-01 | 13 Oct 2021 10:00 | | | 28 Oct 2021 09:05 | 1 |
| HS21100833-12 | FB-01 | 13 Oct 2021 11:40 | | | 28 Oct 2021 09:05 | 1 |

WorkOrder: HS21100833
 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: HS21100833 **METHOD DETECTION /**
InstrumentID: Subcontract **REPORTING LIMITS**
Test Code: Sub_Flouride
Test Number: NA **Matrix:** **Units:**
Test Name: Subcontract Analysis - Flouride

| Type | Analyte | CAS | DCS Spike | DCS | MDL | PQL |
|------|----------------------|-----|-----------|-----|-----|-----|
| A | Subcontract Analysis | | 0 | 0 | 0 | 0 |

WorkOrder: HS21100833
 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: HS21100833
 InstrumentID: Balance1
 Test Code: TDS_W 2540C
 Test Number: M2540C
 Test Name: Total Dissolved Solids by SM2540C

**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 | 8.00 | 5.00 | 10.0 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

QC BATCH REPORT

| Batch ID: 171472 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|-------------------------|------------------------------------|-------------------------------|-----------------------|----------------------------------|---|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: MBLK-171472 | Units: mg/L | | | Analysis Date: 20-Oct-2021 14:49 | | | | | |
| Client ID: | | Run ID: ICPMS06_393814 | SeqNo: 6329783 | PrepDate: 19-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-171472 | Units: mg/L | | | Analysis Date: 20-Oct-2021 14:51 | | | | | |
| Client ID: | | Run ID: ICPMS06_393814 | SeqNo: 6329784 | PrepDate: 19-Oct-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.4745 | 0.0200 | 0.5 | 0 | 94.9 | 80 - 120 | | | | |
| Calcium | 4.748 | 0.500 | 5 | 0 | 95.0 | 80 - 120 | | | | |
| MS | Sample ID: HS21100833-02MS | Units: mg/L | | | Analysis Date: 20-Oct-2021 14:58 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_393814 | SeqNo: 6329788 | PrepDate: 19-Oct-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.502 | 0.0200 | 0.5 | 0.04436 | 91.5 | 80 - 120 | | | | |
| Calcium | 114.7 | 0.500 | 5 | 108.9 | 117 | 80 - 120 | | | | O |
| MSD | Sample ID: HS21100833-02MSD | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:00 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_393814 | SeqNo: 6329789 | PrepDate: 19-Oct-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron | 0.5269 | 0.0200 | 0.5 | 0.04436 | 96.5 | 80 - 120 | 0.502 | 4.85 | 20 | |
| Calcium | 117 | 0.500 | 5 | 108.9 | 162 | 80 - 120 | 114.7 | 1.94 | 20 | SO |
| PDS | Sample ID: HS21100833-02PDS | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:02 | | | | | |
| Client ID: MW-02 | | Run ID: ICPMS06_393814 | SeqNo: 6329790 | PrepDate: 19-Oct-2021 | DF: 1 | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 122.6 | 0.500 | 10 | 108.9 | 137 | 75 - 125 | | | | SO |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

QC BATCH REPORT

| Batch ID: 171472 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
|-------------------------|-----------------------------------|-----------------------|------------------------------|---|------|---------------|---------------|------|-------|------|
| SD | Sample ID: HS21100833-02SD | Units: mg/L | | Analysis Date: 20-Oct-2021 14:56 | | | | | | |
| Client ID: MW-02 | Run ID: ICPMS06_393814 | SeqNo: 6329787 | PrepDate: 19-Oct-2021 | DF: 5 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %D | Limit | Qual |
| Boron | 0.05549 | 0.100 | | | | | 0.04436 | 0 | 10 | J |
| Calcium | 112.9 | 2.50 | | | | | 108.9 | 3.68 | 10 | |

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21100833-01 | HS21100833-02 | HS21100833-03 | HS21100833-04 |
| HS21100833-05 | HS21100833-06 | HS21100833-07 | HS21100833-08 |
| HS21100833-09 | HS21100833-10 | HS21100833-11 | HS21100833-12 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

QC BATCH REPORT

Batch ID: R393933 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

| | | | | | | | | | | |
|-------------|--------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| MBLK | Sample ID: WBLK-102021 | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:35 | | | | | |
| Client ID: | Run ID: Balance1_393933 | SeqNo: 6331533 | 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-102021 | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:35 | | | | | |
| Client ID: | Run ID: Balance1_393933 | SeqNo: 6331534 | 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) 932 10.0 1000 0 93.2 85 - 115

| | | | | | | | | | | |
|-------------------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21100833-02DUP | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:35 | | | | | |
| Client ID: MW-02 | Run ID: Balance1_393933 | SeqNo: 6331521 | 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) 1258 10.0 1240 1.44 5

| | | | | | | | | | | |
|------------|------------------------------------|-----------------------|-----------|---------------|---|---------------|---------------|------|-----------|------|
| DUP | Sample ID: HS21100748-01DUP | Units: mg/L | | | Analysis Date: 20-Oct-2021 15:35 | | | | | |
| Client ID: | Run ID: Balance1_393933 | SeqNo: 6331512 | 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) 1370 10.0 1364 0.439 5

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21100833-01 | HS21100833-02 | HS21100833-03 | HS21100833-04 |
| HS21100833-05 | HS21100833-06 | HS21100833-07 | HS21100833-08 |
| HS21100833-09 | HS21100833-10 | HS21100833-11 | HS21100833-12 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

QC BATCH REPORT

Batch ID: R394145 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

| MBLK | | Sample ID: MBLK | | Units: mg/L | | Analysis Date: 25-Oct-2021 07:12 | | | |
|-------------|---------|-------------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICS-Integrion_394145 | | SeqNo: 6336784 | | 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: 25-Oct-2021 07:20 | | | |
|------------|--------|-------------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: | | Run ID: ICS-Integrion_394145 | | SeqNo: 6336785 | | PrepDate: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 19.51 | 0.500 | 20 | 0 | 97.5 | 90 - 110 | | | |
| Sulfate | 18.2 | 0.500 | 20 | 0 | 91.0 | 90 - 110 | | | |

| MS | | Sample ID: HS21100833-06MS | | Units: mg/L | | Analysis Date: 25-Oct-2021 09:55 | | | |
|-------------------------|--------|-------------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: MW-20 | | Run ID: ICS-Integrion_394145 | | SeqNo: 6336799 | | PrepDate: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 29.29 | 0.500 | 10 | 19.19 | 101 | 80 - 120 | | | |
| Sulfate | 45.89 | 0.500 | 10 | 36.65 | 92.4 | 80 - 120 | | | |

| MS | | Sample ID: HS21100833-02MS | | Units: mg/L | | Analysis Date: 25-Oct-2021 08:34 | | | |
|-------------------------|--------|-------------------------------------|---------|-----------------------|------|---|---------------|---------------|----------------|
| Client ID: MW-02 | | Run ID: ICS-Integrion_394145 | | SeqNo: 6336789 | | PrepDate: | | DF: 10 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 512 | 5.00 | 100 | 408.4 | 104 | 80 - 120 | | | O |
| Sulfate | 253.4 | 5.00 | 100 | 162.5 | 90.9 | 80 - 120 | | | |

| MSD | | Sample ID: HS21100833-06MSD | | Units: mg/L | | Analysis Date: 25-Oct-2021 10:03 | | | |
|-------------------------|--------|-------------------------------------|---------|-----------------------|------|---|---------------|--------------|----------------|
| Client ID: MW-20 | | Run ID: ICS-Integrion_394145 | | SeqNo: 6336800 | | PrepDate: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual |
| Chloride | 30.38 | 0.500 | 10 | 19.19 | 112 | 80 - 120 | 29.29 | 3.66 | 20 |
| Sulfate | 47.06 | 0.500 | 10 | 36.65 | 104 | 80 - 120 | 45.89 | 2.51 | 20 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

QC BATCH REPORT

Batch ID: R394145 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY E300.0, REV 2.1, 1993

| | | | | | | | | | | |
|-------------------------|-------------------------------------|------|-----------------------|--------------------|---|---------------|---------------|--------|-----------|------|
| MSD | Sample ID: HS21100833-02MSD | | | Units: mg/L | Analysis Date: 25-Oct-2021 08:41 | | | | | |
| Client ID: MW-02 | Run ID: ICS-Integrion_394145 | | SeqNo: 6336790 | | PrepDate: | | DF: 10 | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Chloride | 512.6 | 5.00 | 100 | 408.4 | 104 | 80 - 120 | 512 | 0.121 | 20 | O |
| Sulfate | 253.2 | 5.00 | 100 | 162.5 | 90.7 | 80 - 120 | 253.4 | 0.0912 | 20 | |

The following samples were analyzed in this batch:

| | | | |
|---------------|---------------|---------------|---------------|
| HS21100833-01 | HS21100833-02 | HS21100833-03 | HS21100833-04 |
| HS21100833-05 | HS21100833-06 | HS21100833-07 | HS21100833-08 |
| HS21100833-09 | HS21100833-10 | HS21100833-11 | HS21100833-12 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
WorkOrder: HS21100833

**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 |

Client: TRC Corporation
Project: NRG Limestone - Appendix III
Work Order: HS21100833

SAMPLE TRACKING

| Lab Samp ID | Client Sample ID | Action | Date | Person | New Location |
|---------------|------------------|--------|-----------------------|--------|--------------|
| HS21100833-01 | MW-01 | Login | 10/14/2021 8:19:08 PM | PMG | Disposed |
| HS21100833-01 | MW-01 | Login | 10/14/2021 8:19:08 PM | PMG | Sub |
| HS21100833-01 | MW-01 | Login | 10/14/2021 8:19:08 PM | PMG | Disposed |

Sample Receipt Checklist

Work Order ID: HS21100833

Date/Time Received: 14-Oct-2021 10:00

Client Name: TRC-HOU

Received by: Paresh M. Giga

Completed By: /S/ Paresh M. Giga 14-Oct-2021 20:44 Reviewed by: /S/ Corey Grandits 18-Oct-2021 10:28
eSignature Date/Time eSignature Date/Time

Matrices: Water

Carrier name: FedEx Priority Overnight

- 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 []

2 Page(s)
COC IDs:253579/253578

Temperature(s)/Thermometer(s): 0.8C U/C IR31
Cooler(s)/Kit(s): 47225
Date/Time sample(s) sent to storage: 10/14/2021 20:45
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:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

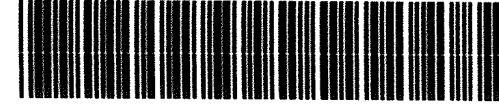
Chain of Custody Form

Page 1 of 2

COC ID: 253579

HS21100833

TRC Corporation
NRG WA Parish - Appendix III



| Customer Information | | Project Information | | ALS Project Manager: | |
|----------------------|------------------------------------|---------------------|------------------------------------|----------------------|---|
| Purchase Order | 161260 | Project Name | NRG Limestone- Appendix III | A | ICP TW (B and Ca (App III)) |
| Work Order | | Project Number | | B | 300 W (Cl, SO4) |
| Company Name | TRC Corporation | Bill To Company | TRC Corporation | C | Sub Fluoride (Sub Fluoride to ALS Michigan) |
| Send Report To | Lori Burris | Invoice Attn | A/P | D | TDS W2540C (TDS) |
| Address | 14701 St. Mary's Lane Suite 500 | Address | 14701 St. Mary's Lane Suite 500 | E | |
| | | | | F | 0 = MS/MSD volume provided |
| 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-01 | 10/13/21 | 1340 | W | 2, 8 | 3 | X | X | X | X | | | | | | | |
| 2 | MW-02 | 10/13/21 | 1255 | | | 9 | (X) | (X) | (X) | (X) | | | | | | | |
| 3 | MW-17 | 10/13/21 | 1420 | | | 3 | X | X | X | X | | | | | | | |
| 4 | MW-18 | 10/13/21 | 1215 | | | 3 | X | X | X | X | | | | | | | |
| 5 | MW-19 | 10/13/21 | 1125 | | | 3 | X | X | X | X | | | | | | | |
| 6 | MW-20 | 10/13/21 | 1045 | | | 3 | X | X | X | X | | | | | | | |
| 7 | MW-21 | 10/13/21 | 1005 | | | 3 | X | X | X | X | | | | | | | |
| 8 | MW-22 | 10/13/21 | 925 | | | 3 | X | X | X | X | | | | | | | |
| 9 | MW-27R | 10/13/21 | 1615 | | | 3 | X | X | X | X | | | | | | | |
| 10 | MW-28 | 10/13/21 | 1530 | | | 3 | X | X | X | X | | | | | | | |

Sampler(s) Please Print & Sign: *Scott Durcan*

Shipment Method: **FedEx** Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour Results Due Date:

Relinquished by: *Scott Durcan* Date: 10/13/21 Time: 1755 Received by: *[Signature]* Date: 10/14/2021 Time: 10:00

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____ Date: _____ Time: _____

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

Notes: NRG Limestone **PRIVILEGED & CONFIDENTIAL**

Cooler ID: 47225 Cooler Temp: 0.80

QC Package: (Check One Box Below)

Level I Std QC TRRP Checklist

Level III Std CO/Raw Date TRRP Level IV

Level IV SWB-B/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, Privileged and Confidential

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Chain of Custody Form

Page 2 of 2

COC ID: 253578

HS21100833

TRC Corporation
NRG WA Parish - Appendix III



IV

| Customer Information | | Project Information | |
|----------------------|------------------------------------|---------------------|------------------------------------|
| Purchase Order | 161260 | Project Name | NRG Limestone- 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 | 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 | 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 | Dup-01 | 10/13/21 | 1000 | W | 2, 8 | 3 | X | X | X | X | | | | | | | |
| 2 | FB-01 | 10/13/21 | 1140 | ↓ | ↓ | 3 | X | X | X | X | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign
 Scott Duncan *S.D.*

Shipment Method: **FedEx**

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

Results Due Date: _____

Relinquished by: *S.D.* Date: 10/13/21 Time: 1755
 Received by: *[Signature]* Date: 10/14/2021 Time: 10:00

Relinquished by: _____ Date: _____ Time: _____
 Received by (Laboratory): _____
 Checked by (Laboratory): _____

Logged by (Laboratory): _____ Date: _____ Time: _____

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


Notes: NRG Limestone **PRIVILEGED & CONFIDENTIAL**

Cooler ID: _____ Cooler Temp.: _____

QC Package: (Check One Box Below)
 Level II Std QC TRRP Checklist
 Level III Std CO/Faw Date TRRP Level IV
 Level IV SW-8/CLP

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 accurately.

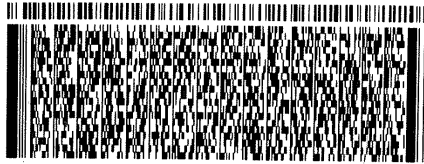
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| | | | |
|---|---------------------|------------|-----------------|
|  ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887 | CUSTODY SEAL | | Seal Broken By: |
| | Date: 10/13/21 | Time: 1800 | <i>SM</i> |
| 47225 | Name: Scot Duncan | | Date: 10/14/21 |
| | Company: HMI | | |

47225 OCT 14 2021

| | |
|--------------------------------|----------------------|
| ORIGIN ID: PNKA (713) 653-3127 | SHIP DATE: 13OCT21 |
| BRAIN HILL LN | ACTWT: 52.80 LB |
| ALS GROUP USA | CAD: 6993656/SSF2220 |
| CONFIDENTIAL PCNG-DONOT SHARE | DIMS: 23x12x12 IN |
| 10450 STANCLIFF RD | BILL THIRD PARTY |
| HOUSTON, TX 77099 | |
| UNITED STATES US | |

TO **CLINT SERVICES**
ALS LABORATORY GROUP
10450 STANCLIFF RD STE# 210
HOUSTON TX 77099
 (281) 530-6866 REF: DEPT:
 IN: PO:



FedEx
Express



REL# 3765346

TRK# 2848 6210 8745 THU - 14 OCT 10:30A
 0201 PRIORITY OVERNIGHT

AB SGRA 77099
 TX-US IAH



Privileged and Confidential



08-Nov-2021

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

Re: **HS21100833**

Work Order: **21101771**

Dear Corey,

ALS Environmental received 12 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 28.

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

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RIGHT SOLUTIONS FROM PARTNER

Client: ALS Environmental
Project: HS21100833
Work Order: 21101771

**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_211026C TITRATOR1_2110929A TITRATOR1_211105A | Instrument ID: Mantech Autotitrator | | | | |
|-----------------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 21101771 | | | | | |
| Analyst Name: KC, JB | | Date 11/05/21 | Reviewer Name: JB, CAC | | | Date: 11/05/21 | |
| | 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 | | | 1 |
| 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? | | | | | 2 |
| | | 2) Were all necessary corrective actions performed for the reported data? | X | | | | |
| | | 3) If requested, is the justification for elevated SQLs documented? | | | X | | |
| Privileged and Confidential | | | | | | | |

| | | | | | | | |
|-----|---|---|---|--|---|--|--|
| 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 | MS09 - 21101771-02AMS MS/MSD recoveries were above QC limits. | | |
| 2 | Revision - This report was revised to report the re-analysis for Fluoride for all samples in this work order with the exception of 21101711-10/11/12. The lab identified a solution discrepancy in the original analysis which may have led to issues with ion selectivity for this particular method. | | |

- 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: HS21100833
 Work Order: 21101771

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21101771-01 | HS21100833-01 | Water | MW-01 | 10/13/2021 13:40 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-02 | HS21100833-02 | Water | MW-02 | 10/13/2021 12:55 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-03 | HS21100833-03 | Water | MW-17 | 10/13/2021 14:20 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-04 | HS21100833-04 | Water | MW-18 | 10/13/2021 12:15 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-05 | HS21100833-05 | Water | MW-19 | 10/13/2021 11:25 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-06 | HS21100833-06 | Water | MW-20 | 10/13/2021 10:45 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-07 | HS21100833-07 | Water | MW-21 | 10/13/2021 10:05 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-08 | HS21100833-08 | Water | MW-22 | 10/13/2021 09:25 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-09 | HS21100833-09 | Water | MW-27R | 10/13/2021 15:30 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-10 | HS21100833-10 | Water | MW-28 | 10/13/2021 15:30 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-11 | HS21100833-11 | Water | Dup-01 | 10/13/2021 10:00 | 10/19/2021 16:00 | <input type="checkbox"/> |
| 21101771-12 | HS21100833-12 | Water | FB-01 | 10/13/2021 11:40 | 10/19/2021 16:00 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21100833
Work Order: 21101771

Case Narrative

Samples for the above noted Work Order were received on 10/19/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:

Batch R329907, Method A4500-F C-11, Sample 21101771-02A MS/MSD: The MS/MSD recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Fluoride.

Client: ALS Environmental
Project: HS21100833
WorkOrder: 21101771

**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: 21101771
 Client: ALS Environmental
 Project: HS21100833

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|--|------------------|--------|------------------------|-----------|-----------|---------------------|
| Batch ID <u>R329907</u> Test Name: <u>Fluoride</u> | | | | | | |
| 21101771-11 | HS21100833-11 | Water | 10/13/2021 10:00:00 AM | | | 10/26/2021 05:57 PM |
| ^ | | | | | | |
| 21101771-12 | HS21100833-12 | | 10/13/2021 11:40:00 AM | | | 10/26/2021 05:57 PM |
| ^ | | | | | | |
| Batch ID <u>R330127</u> Test Name: <u>Fluoride</u> | | | | | | |
| 21101771-10 | HS21100833-10 | Water | 10/13/2021 3:30:00 PM | | | 10/29/2021 12:02 PM |
| ^ | | | | | | |
| Batch ID <u>R330683</u> Test Name: <u>Fluoride</u> | | | | | | |
| 21101771-01 | HS21100833-01 | Water | 10/13/2021 1:40:00 PM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-02 | HS21100833-02 | | 10/13/2021 12:55:00 PM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-03 | HS21100833-03 | | 10/13/2021 2:20:00 PM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-04 | HS21100833-04 | | 10/13/2021 12:15:00 PM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-05 | HS21100833-05 | | 10/13/2021 11:25:00 AM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-06 | HS21100833-06 | | 10/13/2021 10:45:00 AM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-07 | HS21100833-07 | | 10/13/2021 10:05:00 AM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-08 | HS21100833-08 | | 10/13/2021 9:25:00 AM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |
| 21101771-09 | HS21100833-09 | | 10/13/2021 3:30:00 PM | | | 11/5/2021 09:03 AM |
| ^ | | | | | | |

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-01
Collection Date: 10/13/2021 01:40 PM

Work Order: 21101771
Lab ID: 21101771-01
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.13 | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-02
Collection Date: 10/13/2021 12:55 PM

Work Order: 21101771
Lab ID: 21101771-02
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-----------------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | U | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-03
Collection Date: 10/13/2021 02:20 PM

Work Order: 21101771
Lab ID: 21101771-03
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.18 | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-04
Collection Date: 10/13/2021 12:15 PM

Work Order: 21101771
Lab ID: 21101771-04
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.17 | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-05
Collection Date: 10/13/2021 11:25 AM

Work Order: 21101771
Lab ID: 21101771-05
Matrix: WATER

| Analyses | Result | Qual | SDL | SQL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.080 | J | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-06
Collection Date: 10/13/2021 10:45 AM

Work Order: 21101771
Lab ID: 21101771-06
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.26 | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-07
Collection Date: 10/13/2021 10:05 AM

Work Order: 21101771
Lab ID: 21101771-07
Matrix: WATER

| Analyses | Result | Qual | SDL | MLL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-----------------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | U | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-08
Collection Date: 10/13/2021 09:25 AM

Work Order: 21101771
Lab ID: 21101771-08
Matrix: WATER

| Analyses | Result | Qual | SDL | MLL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | 0.080 | J | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-09
Collection Date: 10/13/2021 03:30 PM

Work Order: 21101771
Lab ID: 21101771-09
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|-----------------------------|------|-------|-----------------|--------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: JB |
| Fluoride | U | | 0.058 | 0.10 | mg/L | 1 | 11/5/2021 09:03 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-10
Collection Date: 10/13/2021 03:30 PM

Work Order: 21101771
Lab ID: 21101771-10
Matrix: WATER

| Analyses | Result | Qual | SDL | MQL | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: KNC |
| Fluoride | 0.14 | | 0.058 | 0.10 | mg/L | 1 | 10/29/2021 12:02 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-11
Collection Date: 10/13/2021 10:00 AM

Work Order: 21101771
Lab ID: 21101771-11
Matrix: WATER

| Analyses | Result | Qual | SDL | ML | Units | Dilution Factor | Date Analyzed |
|-----------------|--------|------|----------------------|------|-------|-----------------|------------------|
| FLUORIDE | | | Method: A4500-F C-11 | | | | Analyst: KNC |
| Fluoride | 0.64 | | 0.058 | 0.10 | mg/L | 1 | 10/26/2021 17:57 |

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

ALS Group, USA

Date: 08-Nov-21

Client: ALS Environmental
Project: HS21100833
Sample ID: HS21100833-12
Collection Date: 10/13/2021 11:40 AM

Work Order: 21101771
Lab ID: 21101771-12
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 | 10/26/2021 17:57 |

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

WorkOrder: 21101771
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: 21101771
Project: HS21100833

QC BATCH REPORT

Batch ID: **R329907** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R329907-R329907 | | | | Units: mg/L | | Analysis Date: 10/26/2021 05:57 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211026C | | | | SeqNo: 7877428 | | Prep Date: | | DF: 1 | |
| Analyte | Result | SQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | U | 0.10 | | | | | | | | | |

| LCS | | Sample ID: LCS-R329907-R329907 | | | | Units: mg/L | | Analysis Date: 10/26/2021 05:57 PM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211026C | | | | SeqNo: 7877429 | | Prep Date: | | DF: 1 | |
| Analyte | Result | SQL | 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: 21101771-02AMS | | | | Units: mg/L | | Analysis Date: 10/26/2021 05:57 PM | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: HS21100833-02 | | Run ID: TITRATOR 1_211026C | | | | SeqNo: 7877436 | | Prep Date: | | DF: 1 | |
| Analyte | Result | SQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 48.92 | 0.10 | 5 | 1.9 | 940 | 75-125 | 0 | | | SE | |

| MSD | | Sample ID: 21101771-02AMSD | | | | Units: mg/L | | Analysis Date: 10/26/2021 05:57 PM | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: HS21100833-02 | | Run ID: TITRATOR 1_211026C | | | | SeqNo: 7877437 | | Prep Date: | | DF: 1 | |
| Analyte | Result | SQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 50.6 | 0.10 | 5 | 1.9 | 974 | 75-125 | 48.92 | 3.38 | 20 | SE | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21101771-01A | 21101771-02A | 21101771-03A |
| 21101771-04A | 21101771-05A | 21101771-06A |
| 21101771-07A | 21101771-08A | 21101771-09A |
| 21101771-10A | 21101771-11A | 21101771-12A |

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

Client: ALS Environmental
 Work Order: 21101771
 Project: HS21100833

QC BATCH REPORT

Batch ID: **R330127** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R330127-R330127 | | | | Units: mg/L | | Analysis Date: 10/29/2021 12:02 PM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211029A | | | | SeqNo: 7885995 | | Prep Date: | | DF: 1 | |
| Analyte | Result | ML | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Fluoride U 0.10

| LCS | | Sample ID: LCS-R330127-R330127 | | | | Units: mg/L | | Analysis Date: 10/29/2021 12:02 PM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211029A | | | | SeqNo: 7885961 | | Prep Date: | | DF: 1 | |
| Analyte | Result | ML | 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: 21102023-02A MS | | | | Units: mg/L | | Analysis Date: 10/29/2021 12:02 PM | | | |
|------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211029A | | | | SeqNo: 7885965 | | Prep Date: | | DF: 1 | |
| Analyte | Result | ML | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Fluoride 5.63 0.10 5 0.66 99.4 75-125 0

| MSD | | Sample ID: 21102023-02A MSD | | | | Units: mg/L | | Analysis Date: 10/29/2021 12:02 PM | | | |
|------------|--------|------------------------------------|---------|---------------|------|-----------------------|---------------|---|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211029A | | | | SeqNo: 7885966 | | Prep Date: | | DF: 1 | |
| Analyte | Result | ML | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |

Fluoride 5.65 0.10 5 0.66 99.8 75-125 5.63 0.355 20

The following samples were analyzed in this batch:

21101771-10A

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

Privileged and Confidential

QC Page: 2 of 3

Client: ALS Environmental
 Work Order: 21101771
 Project: HS21100833

QC BATCH REPORT

Batch ID: **R330683** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| MBLK | | Sample ID: MB-R330683-R330683 | | | | Units: mg/L | | Analysis Date: 11/5/2021 09:03 AM | | | |
|------------|--------|--------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211105A | | | | SeqNo: 7908245 | | 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-R330683-R330683 | | | | Units: mg/L | | Analysis Date: 11/5/2021 09:03 AM | | | |
|------------|--------|---------------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: | | Run ID: TITRATOR 1_211105A | | | | SeqNo: 7908246 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 5.21 | 0.10 | 5 | 0 | 104 | 80-120 | 0 | | | | |

| MS | | Sample ID: 21101771-02AMS | | | | Units: mg/L | | Analysis Date: 11/5/2021 09:03 AM | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: HS21100833-02 | | Run ID: TITRATOR 1_211105A | | | | SeqNo: 7908249 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 5.6 | 0.10 | 5 | 0.05 | 111 | 75-125 | 0 | | | | |

| MSD | | Sample ID: 21101771-02AMSD | | | | Units: mg/L | | Analysis Date: 11/5/2021 09:03 AM | | | |
|---------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------|---------------|--|-----------|--------------|--|
| Client ID: HS21100833-02 | | Run ID: TITRATOR 1_211105A | | | | SeqNo: 7908250 | | Prep Date: | | DF: 1 | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Fluoride | 5.58 | 0.10 | 5 | 0.05 | 111 | 75-125 | 5.6 | 0.358 | 20 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 21101771-01A | 21101771-02A | 21101771-03A |
| 21101771-04A | 21101771-05A | 21101771-06A |
| 21101771-07A | 21101771-08A | 21101771-09A |

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

Privileged and Confidential

QC Page: 3 of 3



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: 17097

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: 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: HS21100833
TSR: Sonia West

| | LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|----|----------------------|------------------|--------|-------------------|
| | ANALYSIS REQUESTED | | | DUE DATE |
| 1. | HS21100833-01 | MW-01 | Water | 13 Oct 2021 13:40 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 2. | HS21100833-02 | MW-02 | Water | 13 Oct 2021 12:55 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 3. | HS21100833-03 | MW-17 | Water | 13 Oct 2021 14:20 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 4. | HS21100833-04 | MW-18 | Water | 13 Oct 2021 12:15 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 5. | HS21100833-05 | MW-19 | Water | 13 Oct 2021 11:25 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 6. | HS21100833-06 | MW-20 | Water | 13 Oct 2021 10:45 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 7. | HS21100833-07 | MW-21 | Water | 13 Oct 2021 10:05 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 8. | HS21100833-08 | MW-22 | Water | 13 Oct 2021 09:25 |
| | Fluoride by ISE 4500 | | | 18 Nov 2021 |
| 9. | HS21100833-09 | MW-27R | Water | 13 Oct 2021 15:30 |

RIGHT SOLUTIONS | RIGHT PARTNER



Subcontract Chain of Custody

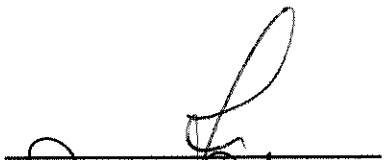
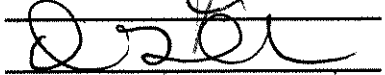
SAMPLING STATE: Texas

COC ID: 17097

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|--------------------|----------------------|--------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| | Fluoride by ISE 4500 | | 18 Nov 2021 |
| 10. HS21100833-10 | MW-28 | Water | 13 Oct 2021 15:30 |
| | Fluoride by ISE 4500 | | 18 Nov 2021 |
| 11. HS21100833-11 | Dup-01 | Water | 13 Oct 2021 10:00 |
| | Fluoride by ISE 4500 | | 18 Nov 2021 |
| 12. HS21100833-12 | FB-01 | Water | 13 Oct 2021 11:40 |
| | Fluoride by ISE 4500 | | 18 Nov 2021 |

Comments: Please analyze for the analysis listed above.
 Send report to the emails shown above.
 Batch client samples together.
 HS21100833-02 = MS/MSD

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

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

Date/Time: 10/18/2021 1800.
 Date/Time: 10/19/21 1600
 Temperature(s): IR3 3.3°C
pH30

17 Oct 2021

Page 2 of 2

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **19-Oct-21 16:00**

Work Order: **21101771**

Received by: **DS**

Checklist completed by Diane Shaw 20-Oct-21
eSignature Date

Reviewed by: Chad Whelton 20-Oct-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): 3.3/4.3 c IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 10/20/2021 3:06:31 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

November 23, 2021

Lori Burris
TRC Corporation
14701 St. Mary's Lane
Suite 500
Houston, TX 77079

Work Order: **HS21110808**

Laboratory Results for: **NRG Limestone- Appendix III**

Dear Lori Burris,

ALS Environmental received 1 sample(s) on Nov 12, 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 Limestone- Appendix III
WorkOrder: HS21110808

**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 Limestone- Appendix III
WorkOrder: HS21110808

**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: 11/23/2021 | | | | |
|---|----------------|--|--|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone- Appendix III | | | Laboratory Job Number: HS21110808 | | | | |
| Reviewer Name: Corey Grandits | | | Prep Batch Number(s): 172730,R395979,R396019,R396109 | | | | |
| # 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: 11/23/2021 | | | | | |
|---|----------------|--|-----|----|-----------------|-----------------|------------------|
| Project Name: NRG Limestone- Appendix III | | Laboratory Job Number: HS21110808 | | | | | |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 172730.R395979.R396019.R396109 | | | | | |
| # 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: 11/23/2021 |
|--|--|--|
| Project Name: NRG Limestone- Appendix III | | Laboratory Job Number: HS21110808 |
| Reviewer Name: Corey Grandits | | Prep Batch Number(s): 172730,R395979,R396019,R396109 |
| ER# ⁵ | Description | |
| 1 | <p>Batch 172730, Metals Method SW6020, sample HS21110830-13, MS and MSD were performed on unrelated sample.</p> <p>Batch R396109, Anions Method E300, sample MW-21, MS and MSD recovered outside the control limit for 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 Environmental in 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
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808
Start Date: 19-Nov-2021 **End Date:** 20-Nov-2021

Run ID: ICS-Integrion_396109
Instrument: ICS-Integrion
Method: E300

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| CCV 1 | 1 | 19-Nov-2021 12:29 | | CL SO4 |
| CCB 1 | 1 | 19-Nov-2021 12:37 | | CL SO4 |
| MBLK | 1 | 19-Nov-2021 12:44 | | CL SO4 |
| LCS | 1 | 19-Nov-2021 12:52 | | CL SO4 |
| CCB 2 | 1 | 19-Nov-2021 14:06 | | CL SO4 |
| MW-21 | 1 | 19-Nov-2021 14:14 | | CL |
| MW-21MS | 1 | 19-Nov-2021 14:21 | | CL SO4 |
| MW-21MSD | 1 | 19-Nov-2021 14:29 | | CL SO4 |
| MW-21 | 10 | 19-Nov-2021 14:36 | | SO4 |
| CCV 2 | 1 | 19-Nov-2021 15:53 | | CL SO4 |
| CCB 3 | 1 | 19-Nov-2021 16:01 | | CL SO4 |
| CCV 3 | 1 | 20-Nov-2021 00:50 | | CL SO4 |
| CCB 4 | 1 | 20-Nov-2021 00:58 | | CL SO4 |
| CCB 5 | 1 | 20-Nov-2021 02:28 | | CL SO4 |
| ZZZZZMS | 10 | 20-Nov-2021 03:27 | | CL SO4 |
| ZZZZZMSD | 10 | 20-Nov-2021 03:35 | | CL SO4 |
| CCV 4 | 1 | 20-Nov-2021 03:50 | | CL SO4 |
| CCB 6 | 1 | 20-Nov-2021 03:57 | | CL SO4 |
| CCB 7 | 1 | 20-Nov-2021 04:57 | | CL SO4 |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

Run ID:ICS-Integrion_396109
 Instrument:ICS-Integrion
 Method:E300

| | | | | |
|-------|-------------------------|---------------|------------|---------------------|
| CCB 1 | Date: 19-Nov-2021 12:37 | Seq: 6383875 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Sulfate | 201.7 | 200 | 500 |
| CCB 2 | Date: 19-Nov-2021 14:06 | Seq: 6383885 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Sulfate | 206.4 | 200 | 500 |
| CCB 5 | Date: 20-Nov-2021 02:28 | Seq: 6386997 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Sulfate | 207.6 | 200 | 500 |
| CCB 7 | Date: 20-Nov-2021 04:57 | Seq: 6387013 | D/F: 1 | Units: ug/L |
| | Analyte | Result | MDL | Report Limit |
| | Sulfate | 207.9 | 200 | 500 |

FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808
Start Date: 22-Nov-2021 **End Date:** 22-Nov-2021

Run ID: ICPMS06_396226
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analyses |
|-------------|-----|-------------------|-----------|----------|
| ICV | 1 | 22-Nov-2021 11:18 | 015_ICV.d | B CA |
| LLICV2 | 1 | 22-Nov-2021 11:20 | 016LCV2.d | B CA |
| LLICV5 | 1 | 22-Nov-2021 11:22 | 017LCV5.d | B CA |
| ICB | 1 | 22-Nov-2021 11:24 | 018_ICB.d | B CA |
| ICV | 1 | 22-Nov-2021 11:27 | 019_ICV.d | B CA |
| ICSA | 1 | 22-Nov-2021 11:29 | 020ICSA.d | B CA |
| ICSAB | 1 | 22-Nov-2021 11:31 | 021ICSB.d | B CA |
| CCV 1 | 1 | 22-Nov-2021 11:40 | 023_CCV.d | B CA |
| CCB 1 | 1 | 22-Nov-2021 11:42 | 024_CCB.d | B CA |
| CCV 2 | 1 | 22-Nov-2021 12:07 | 035_CCV.d | B CA |
| CCB 2 | 1 | 22-Nov-2021 12:09 | 036_CCB.d | B CA |
| CCV 3 | 1 | 22-Nov-2021 12:40 | 047_CCV.d | B CA |
| CCB 3 | 1 | 22-Nov-2021 12:42 | 048_CCB.d | B CA |
| CCV 4 | 1 | 22-Nov-2021 13:04 | 059_CCV.d | B CA |
| CCB 4 | 1 | 22-Nov-2021 13:06 | 060_CCB.d | B CA |
| CCV 5 | 1 | 22-Nov-2021 13:28 | 071_CCV.d | B CA |
| CCB 5 | 1 | 22-Nov-2021 13:30 | 072_CCB.d | B CA |
| CCV 6 | 1 | 22-Nov-2021 13:52 | 083_CCV.d | B CA |
| CCB 6 | 1 | 22-Nov-2021 13:54 | 084_CCB.d | B CA |
| CCV 7 | 1 | 22-Nov-2021 14:21 | 095_CCV.d | B CA |
| CCB 7 | 1 | 22-Nov-2021 14:23 | 096_CCB.d | B CA |
| CCV 8 | 1 | 22-Nov-2021 14:31 | 098_CCV.d | B CA |
| CCV 9 | 1 | 22-Nov-2021 14:59 | 109_CCV.d | B CA |
| CCB 8 | 1 | 22-Nov-2021 15:00 | 110_CCB.d | B CA |
| CCV 10 | 1 | 22-Nov-2021 15:06 | 112_CCV.d | B CA |
| CCV 11 | 1 | 22-Nov-2021 15:34 | 123_CCV.d | B CA |
| CCB 9 | 1 | 22-Nov-2021 15:36 | 124_CCB.d | B CA |
| CCV 12 | 1 | 22-Nov-2021 15:44 | 126_CCV.d | B CA |
| MBLK-172730 | 1 | 22-Nov-2021 15:48 | 127SMPL.d | B CA |
| LCS-172730 | 1 | 22-Nov-2021 15:50 | 128SMPL.d | B CA |
| ZZZZZSD | 5 | 22-Nov-2021 15:52 | 129SMPL.d | |
| ZZZZZMS | 1 | 22-Nov-2021 15:54 | 130SMPL.d | B CA |
| ZZZZZMSD | 1 | 22-Nov-2021 16:02 | 133SMPL.d | B CA |
| ZZZZZPDS | 1 | 22-Nov-2021 16:04 | 134SMPL.d | |
| CCV 13 | 1 | 22-Nov-2021 16:16 | 137_CCV.d | B CA |
| CCB 10 | 1 | 22-Nov-2021 16:18 | 138_CCB.d | B CA |
| CCV 14 | 1 | 22-Nov-2021 16:20 | 139_CCV.d | B CA |
| MW-21 | 10 | 22-Nov-2021 16:38 | 148SMPL.d | B CA |
| CCV 15 | 1 | 22-Nov-2021 16:43 | 150_CCV.d | B CA |
| CCB 11 | 1 | 22-Nov-2021 16:45 | 151_CCB.d | B CA |
| CCV 16 | 1 | 22-Nov-2021 16:47 | 152_CCV.d | B CA |
| CCV 17 | 1 | 22-Nov-2021 17:20 | 163_CCV.d | B CA |
| CCB 12 | 1 | 22-Nov-2021 17:22 | 164_CCB.d | B CA |
| CCV 18 | 1 | 22-Nov-2021 17:32 | 167_CCV.d | B CA |
| CCB 13 | 1 | 22-Nov-2021 17:34 | 168_CCB.d | B CA |
| CCV 19 | 1 | 22-Nov-2021 17:57 | 179_CCV.d | B CA |
| CCB 14 | 1 | 22-Nov-2021 17:59 | 180_CCB.d | B CA |
| ICCV 20 | 1 | 22-Nov-2021 21:01 | 199_ICV.d | B CA |
| LLICCV5 | 1 | 22-Nov-2021 21:03 | 200LCV5.d | B CA |
| LLICCV2 | 1 | 22-Nov-2021 21:05 | 201LCV2.d | B CA |

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FORM 13 - ANALYSIS RUN LOG

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808
Start Date: 22-Nov-2021 **End Date:** 22-Nov-2021

Run ID: ICPMS06_396226
Instrument: ICPMS06
Method: SW6020A

| Sample No. | D/F | Time | FileID | Analytes |
|-------------------|------------|-------------------|---------------|-----------------|
| ICCB 15 | 1 | 22-Nov-2021 21:07 | 202_ICB.d | B CA |
| CCV 21 | 1 | 22-Nov-2021 21:11 | 204_CCV.d | B CA |
| CCB 16 | 1 | 22-Nov-2021 21:12 | 205_CCB.d | B CA |
| CCV 22 | 1 | 22-Nov-2021 21:26 | 212_CCV.d | B CA |
| CCB 17 | 1 | 22-Nov-2021 21:28 | 213_CCB.d | B CA |
| CCB 18 | 1 | 22-Nov-2021 21:48 | 223_CCB.d | B CA |
| CCV 23 | 1 | 22-Nov-2021 21:56 | 225_CCV.d | B CA |
| CCV 24 | 1 | 22-Nov-2021 22:16 | 234_CCV.d | B CA |
| CCB 19 | 1 | 22-Nov-2021 22:18 | 235_CCB.d | B CA |
| CCV 25 | 1 | 22-Nov-2021 22:40 | 238_CCV.d | B CA |
| CCB 20 | 1 | 22-Nov-2021 22:42 | 239_CCB.d | B CA |
| CCV 26 | 1 | 22-Nov-2021 23:03 | 249_CCV.d | B CA |
| CCB 21 | 1 | 22-Nov-2021 23:05 | 250_CCB.d | B CA |
| CCV 27 | 1 | 22-Nov-2021 23:27 | 261_CCV.d | B CA |
| CCB 22 | 1 | 22-Nov-2021 23:29 | 262_CCB.d | B CA |
| CCV 28 | 1 | 22-Nov-2021 23:51 | 273_CCV.d | B CA |
| CCB 23 | 1 | 22-Nov-2021 23:53 | 274_CCB.d | B CA |

CCB EXCEPTIONS REPORT

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

Run ID:ICPMS06_396226
Instrument:ICPMS06
Method:SW6020A

| CCB ID | Date | Seq | D/F | Units |
|----------------|-------------------|---------------|------------|---------------------|
| CCB 10 | 22-Nov-2021 16:18 | 6387495 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 14.49 | 11 |
| | | | | 20 |
| CCB 11 | 22-Nov-2021 16:45 | 6387589 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 14.72 | 11 |
| | | | | 20 |
| CCB 18 | 22-Nov-2021 21:48 | 6387809 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 16.36 | 11 |
| | | Calcium | 90.97 | 34 |
| | | | | 500 |
| CCB 19 | 22-Nov-2021 22:18 | 6387799 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 27.29 | 11 |
| | | | | 20 |
| CCB 20 | 22-Nov-2021 22:42 | 6387816 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 14.76 | 11 |
| | | | | 20 |
| CCB 21 | 22-Nov-2021 23:05 | 6387827 | 1 | ug/L |
| Analyte | | | | |
| | | Result | MDL | Report Limit |
| | | Boron | 13.56 | 11 |
| | | | | 20 |

Client: TRC Corporation
Project: NRG Limestone- Appendix III
Work Order: HS21110808

SAMPLE SUMMARY

| Lab Samp ID | Client Sample ID | Matrix | TagNo | Collection Date | Date Received | Hold |
|---------------|------------------|--------|-------|-------------------|-------------------|--------------------------|
| HS21110808-01 | MW-21 | Water | | 11-Nov-2021 13:50 | 12-Nov-2021 09:40 | <input type="checkbox"/> |

Client: TRC Corporation
 Project: NRG Limestone- Appendix III
 Sample ID: MW-21
 Collection Date: 11-Nov-2021 13:50

ANALYTICAL REPORT
 WorkOrder:HS21110808
 Lab ID:HS21110808-01
 Matrix:Water

| ANALYSES | RESULT | QUAL | SDL | MQL | UNITS | DILUTION FACTOR | DATE ANALYZED |
|---|--------------|-----------------------|-------|----------------------------|-------|-----------------|-------------------|
| ICP-MS METALS BY SW6020A | | Method:SW6020A | | Prep:SW3010A / 19-Nov-2021 | | Analyst: JHD | |
| Boron | 0.691 | | 0.110 | 0.200 | mg/L | 10 | 22-Nov-2021 16:38 |
| Calcium | 70.2 | | 0.340 | 5.00 | mg/L | 10 | 22-Nov-2021 16:38 |
| ANIONS BY E300.0, REV 2.1, 1993 | | Method:E300 | | | | Analyst: YP | |
| Chloride | 28.5 | | 0.200 | 0.500 | mg/L | 1 | 19-Nov-2021 14:14 |
| Sulfate | 354 | | 2.00 | 5.00 | mg/L | 10 | 19-Nov-2021 14:36 |
| TOTAL DISSOLVED SOLIDS BY SM2540C-2011 | | Method:M2540C | | | | Analyst: KAH | |
| Total Dissolved Solids (Residue, Filterable) | 602 | | 5.00 | 10.0 | mg/L | 1 | 17-Nov-2021 17:30 |
| SUBCONTRACT ANALYSIS - FLOURIDE | | Method:NA | | | | Analyst: SUBHO | |
| Subcontract Analysis | See Attached | | 0 | | | 1 | 19-Nov-2021 09:30 |

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

Weight / Prep Log

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

Batch ID: 172730 **Start Date:** 19 Nov 2021 10:00 **End Date:** 19 Nov 2021 14:00
Method: WATER - SW3010A **Prep Code:** 3010A

| Sample ID | Container | Sample Wt/Vol | Final Volume | Prep Factor | |
|---------------|-----------|---------------|--------------|-------------|----------------------------------|
| HS21110808-01 | | 10 (mL) | 10 (mL) | 1 | 250 mL plastic, HNO3 to pH <2 |

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

DATES REPORT

| Sample ID | Client Samp ID | Collection Date | Leachate Date | Prep Date | Analysis Date | DF |
|--------------------------------|----------------|---|---------------|-------------------|----------------------|----|
| Batch ID: 172730 (0) | | Test Name : ICP-MS METALS BY SW6020A | | | Matrix: Water | |
| HS21110808-01 | MW-21 | 11 Nov 2021 13:50 | | 19 Nov 2021 14:00 | 22 Nov 2021 16:38 | 10 |
| Batch ID: R395979 (0) | | Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011 | | | Matrix: Water | |
| HS21110808-01 | MW-21 | 11 Nov 2021 13:50 | | | 17 Nov 2021 17:30 | 1 |
| Batch ID: R396019 (0) | | Test Name : SUBCONTRACT ANALYSIS - FLOURIDE | | | Matrix: Water | |
| HS21110808-01 | MW-21 | 11 Nov 2021 13:50 | | | 19 Nov 2021 09:30 | 1 |
| Batch ID: R396109 (0) | | Test Name : ANIONS BY E300.0, REV 2.1, 1993 | | | Matrix: Water | |
| HS21110808-01 | MW-21 | 11 Nov 2021 13:50 | | | 19 Nov 2021 14:36 | 10 |
| HS21110808-01 | MW-21 | 11 Nov 2021 13:50 | | | 19 Nov 2021 14:14 | 1 |

WorkOrder: HS21110808
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: HS21110808
 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: HS21110808
InstrumentID: Balance1
Test Code: TDS_W 2540C
Test Number: M2540C
Test Name: Total Dissolved Solids by SM2540C

**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 | 8.00 | 5.00 | 10.0 |

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

QC BATCH REPORT

| | | | | | | | | | | |
|-------------------------------|-------------------------------|----------------------------|------------------------------|---|---|---------------|---------------|------|-----------|------|
| Batch ID: 172730 (0) | | Instrument: ICPMS06 | | Method: ICP-MS METALS BY SW6020A | | | | | | |
| MBLK | Sample ID: MBLK-172730 | Units: mg/L | | | Analysis Date: 22-Nov-2021 15:48 | | | | | |
| Client ID: | Run ID: ICPMS06_396226 | SeqNo: 6387484 | PrepDate: 19-Nov-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-172730 | Units: mg/L | | | Analysis Date: 22-Nov-2021 15:50 | | | | | |
| Client ID: | Run ID: ICPMS06_396226 | SeqNo: 6387485 | PrepDate: 19-Nov-2021 | DF: 1 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

| | | | | | | | | | | |
|---------|--------|--------|-----|---|------|----------|--|--|--|--|
| Boron | 0.4225 | 0.0200 | 0.5 | 0 | 84.5 | 80 - 120 | | | | |
| Calcium | 4.429 | 0.500 | 5 | 0 | 88.6 | 80 - 120 | | | | |

| | | | | | | | | | | |
|------------|-----------------------------------|-----------------------|------------------------------|---------------|---|---------------|---------------|------|-----------|------|
| MS | Sample ID: HS21110830-13MS | Units: mg/L | | | Analysis Date: 22-Nov-2021 15:54 | | | | | |
| Client ID: | Run ID: ICPMS06_396226 | SeqNo: 6387507 | PrepDate: 19-Nov-2021 | DF: 1 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

| | | | | | | | | | | |
|---------|-------|--------|-----|-------|------|----------|-----|--|--|--|
| Boron | 4.166 | 0.0200 | 0.5 | 3.71 | 91.2 | 80 - 120 | EO | | | |
| Calcium | 217.9 | 0.500 | 5 | 210.2 | 153 | 80 - 120 | SEO | | | |

| | | | | | | | | | | |
|------------|------------------------------------|-----------------------|------------------------------|---------------|---|---------------|---------------|------|-----------|------|
| MSD | Sample ID: HS21110830-13MSD | Units: mg/L | | | Analysis Date: 22-Nov-2021 16:02 | | | | | |
| Client ID: | Run ID: ICPMS06_396226 | SeqNo: 6387509 | PrepDate: 19-Nov-2021 | DF: 1 | | | | | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

| | | | | | | | | | | |
|---------|-------|--------|-----|-------|------|----------|-------|-------|----|-----|
| Boron | 4.103 | 0.0200 | 0.5 | 3.71 | 78.5 | 80 - 120 | 4.166 | 1.53 | 20 | SEO |
| Calcium | 215.9 | 0.500 | 5 | 210.2 | 113 | 80 - 120 | 217.9 | 0.916 | 20 | EO |

The following samples were analyzed in this batch: HS21110808-01

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

QC BATCH REPORT

Batch ID: R395979 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

| | | | | | | | | | |
|-------------|--------------------------------|-----------------------|---------|---------------|---|---------------|---------------|------|----------------|
| MBLK | Sample ID: WBLK-111721 | Units: mg/L | | | Analysis Date: 17-Nov-2021 17:30 | | | | |
| Client ID: | Run ID: Balance1_395979 | SeqNo: 6380666 | | 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-111721 | Units: mg/L | | | Analysis Date: 17-Nov-2021 17:30 | | | | |
| Client ID: | Run ID: Balance1_395979 | SeqNo: 6380667 | | 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) 1002 10.0 1000 0 100 85 - 115

| | | | | | | | | | |
|------------|------------------------------------|-----------------------|---------|---------------|---|---------------|---------------|------|----------------|
| DUP | Sample ID: HS21110905-01DUP | Units: mg/L | | | Analysis Date: 17-Nov-2021 17:30 | | | | |
| Client ID: | Run ID: Balance1_395979 | SeqNo: 6380665 | | 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) 552 10.0 550 0.363 5

| | | | | | | | | | |
|------------|------------------------------------|-----------------------|---------|---------------|---|---------------|---------------|------|----------------|
| DUP | Sample ID: HS21110689-01DUP | Units: mg/L | | | Analysis Date: 17-Nov-2021 17:30 | | | | |
| Client ID: | Run ID: Balance1_395979 | SeqNo: 6380650 | | 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) 672 10.0 676 0.593 5

The following samples were analyzed in this batch: HS21110808-01

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

QC BATCH REPORT

| Batch ID: R396109 (0) | | Instrument: ICS-Integrion | | Method: ANIONS BY E300.0, REV 2.1, 1993 | | | | | | |
|-------------------------|------------------------------------|-------------------------------------|---------|---|---|---------------|---------------|---------------|----------------|--|
| MBLK | Sample ID: MBLK | Units: mg/L | | | Analysis Date: 19-Nov-2021 12:44 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_396109 | | SeqNo: 6383876 | | 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: 19-Nov-2021 12:52 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_396109 | | SeqNo: 6383877 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 20.23 | 0.500 | 20 | 0 | 101 | 90 - 110 | | | | |
| Sulfate | 20.51 | 0.500 | 20 | 0 | 103 | 90 - 110 | | | | |
| MS | Sample ID: HS21110841-30MS | Units: mg/L | | | Analysis Date: 20-Nov-2021 03:27 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_396109 | | SeqNo: 6387003 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 251 | 5.00 | 100 | 152.2 | 98.8 | 80 - 120 | | | | |
| Sulfate | 122.9 | 5.00 | 100 | 20.97 | 102 | 80 - 120 | | | | |
| MS | Sample ID: HS21110808-01MS | Units: mg/L | | | Analysis Date: 19-Nov-2021 14:21 | | | | | |
| Client ID: MW-21 | | Run ID: ICS-Integrion_396109 | | SeqNo: 6383887 | | PrepDate: | | DF: 1 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 38.21 | 0.500 | 10 | 28.49 | 97.2 | 80 - 120 | | | | |
| Sulfate | 342 | 0.500 | 10 | 337.7 | 42.7 | 80 - 120 | | | SEO | |
| MSD | Sample ID: HS21110841-30MSD | Units: mg/L | | | Analysis Date: 20-Nov-2021 03:35 | | | | | |
| Client ID: | | Run ID: ICS-Integrion_396109 | | SeqNo: 6387004 | | PrepDate: | | DF: 10 | | |
| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit Qual | |
| Chloride | 248.8 | 5.00 | 100 | 152.2 | 96.6 | 80 - 120 | 251 | 0.876 | 20 | |
| Sulfate | 121.9 | 5.00 | 100 | 20.97 | 101 | 80 - 120 | 122.9 | 0.775 | 20 | |

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

QC BATCH REPORT

Batch ID: R396109 (0) Instrument: ICS-Integrion Method: ANIONS BY E300.0, REV 2.1, 1993

MSD Sample ID: HS21110808-01MSD Units: mg/L Analysis Date: 19-Nov-2021 14:29
Client ID: MW-21 Run ID: ICS-Integrion_396109 SeqNo: 6383888 PrepDate: DF: 1

| Analyte | Result | MQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
|----------|--------|-------|---------|---------------|------|---------------|---------------|-------|-----------|------|
| Chloride | 38.15 | 0.500 | 10 | 28.49 | 96.6 | 80 - 120 | 38.21 | 0.155 | 20 | |
| Sulfate | 341.3 | 0.500 | 10 | 337.7 | 35.9 | 80 - 120 | 342 | 0.2 | 20 | SEO |

The following samples were analyzed in this batch:

Client: TRC Corporation
Project: NRG Limestone- Appendix III
WorkOrder: HS21110808

**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: HS21110808

Date/Time Received: 12-Nov-2021 09:40

Client Name: TRC-HOU

Received by: Paresh M. Giga

| | | | |
|---------------------------------|-------------------|---------------------------------|-------------------|
| Completed By: /S/ Pablo Marinez | 12-Nov-2021 19:06 | Reviewed by: /S/ Corey Grandits | 15-Nov-2021 12:37 |
| 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:253577
- 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): 0.7°C UC/C IR 31

Cooler(s)/Kit(s): 46006

Date/Time sample(s) sent to storage: 11/12/21 19:10

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

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 253577

HS21110808

vv

TRC Corporation
NRG Limestone- Appendix III



ALS Project Manager:

| Customer Information | | Project Information | |
|----------------------|------------------------------------|---------------------|------------------------------------|
| Purchase Order | 161260 | Project Name | NRG Limestone- 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 | 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 | 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-21 | 11-11-21 | 1350 | W | 2.8 | 3 | X | X | X | X | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Sampler(s) Please Print & Sign: Brian Hillin

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: 11-12-21 Time: 09:40

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

Relinquished by: _____ Date: _____ Time: _____

Received by (Laboratory): _____ Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____

Checked by (Laboratory): [Signature] Date: 11/12/2021 Time: 09:40

Notes: NRG Limestone PRIVILEGED & CONFIDENTIAL

Cooler ID: 46006 Cooler Temp.: 0.70

QC Package: (Check One Box Below)

Level I Std QC TRRP Checklist

Level II Std QC/Raw Date TRRP Level IV


Level IV SIMS-8/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.
 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 46006 | CUSTODY SEAL | | Seal Broken By: |
| | Date: 11-12-21 | Time: 8:00 | PH |
| | Name: B. Hillin | Company: HME | Date: 11/12/21 |



19-Nov-2021

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

Re: **HS21110808**

Work Order: **21111636**

Dear Corey,

ALS Environmental received 1 sample on 16-Nov-2021 09:30 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 13.

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: HS21110808
Work Order: 21111636

**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_21118B | Instrument ID: Mantech Autotitrator | | | | |
|--------------------|----------------|--|-------------------------------------|----|-----------------|-----------------|------------------|
| Method: FL_4500C_W | | Work order Number (s): 2111636 | | | | | |
| Analyst Name: KC | | Date 11/18/21 | Reviewer Name: JB | | Date: 11/18/21 | | |
| | 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: HS21110808
Work Order: 21111636

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> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 21111636-01 | MW-21 | Water | HS21110808-01 | 11/11/2021 13:50 | 11/16/2021 09:30 | <input type="checkbox"/> |

Client: ALS Environmental
Project: HS21110808
WorkOrder: 21111636

**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: 21111636
Client: ALS Environmental
Project: HS21110808

DATES REPORT

| Sample ID | Client Sample ID | Matrix | Collection Date | TCLP Date | Prep Date | Analysis Date |
|-------------------------|----------------------------|--------|-----------------------|-----------|-----------|---------------------|
| Batch ID R332682 | Test Name: Fluoride | | | | | |
| 21111636-01 | MW-21 | Water | 11/11/2021 1:50:00 PM | | | 11/18/2021 12:58 PM |

ALS Group, USA

Date: 19-Nov-21

Client: ALS Environmental
Project: HS21110808
Sample ID: MW-21
Collection Date: 11/11/2021 01:50 PM

Work Order: 21111636
Lab ID: 21111636-01
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 | 11/18/2021 12:58 | |

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

WorkOrder: 21111636
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: 21111636
Project: HS21110808

QC BATCH REPORT

Batch ID: **R332682** Instrument ID **Titrator 1** Method: **A4500-F C-11**

| | | | | | | | | | | |
|-------------|--------|--------------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| MBLK | | Sample ID: MB-R332682-R332682 | | | | Units: mg/L | | Analysis Date: 11/18/2021 12:58 PM | | |
| Client ID: | | Run ID: TITRATOR 1_211118B | | SeqNo: 7954186 | | 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-R332682-R332682 | | | | Units: mg/L | | Analysis Date: 11/18/2021 12:58 PM | | |
| Client ID: | | Run ID: TITRATOR 1_211118B | | SeqNo: 7954187 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 4.82 0.10 5 0 96.4 80-120 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| MS | | Sample ID: 21111206-03D MS | | | | Units: mg/L | | Analysis Date: 11/18/2021 12:58 PM | | |
| Client ID: | | Run ID: TITRATOR 1_211118B | | SeqNo: 7954189 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 6.12 0.10 5 1.21 98.2 75-125 0

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|-----------------------|------|--------------------|---------------|---|-----------|------|
| MSD | | Sample ID: 21111206-03D MSD | | | | Units: mg/L | | Analysis Date: 11/18/2021 12:58 PM | | |
| Client ID: | | Run ID: TITRATOR 1_211118B | | SeqNo: 7954190 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | MLQ | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Fluoride 6.17 0.10 5 1.21 99.2 75-125 6.12 0.814 20

The following samples were analyzed in this batch: 21111636-01A

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

21111636



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: 17375

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: HS21110808
TSR: Ron Martino

| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | COLLECT DATE |
|---------------------------------|------------------|--------|-------------------|
| ANALYSIS REQUESTED | | | DUE DATE |
| 1. HS21110808-01 | MW-21 | Water | 11 Nov 2021 13:50 |
| Fluoride by ISE 4500. EQuls EDD | | | 19 Nov 2021 |

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

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

Relinquished By: [Signature]
Received By: [Signature]
Cooler ID(s): _____

Date/Time: 11/15/2021 800
Date/Time: 11/16/21 0930
Temperature(s): IR 3.8°C
PH30

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Client Name: **ALS - HOUSTON**

Date/Time Received: **16-Nov-21 09:30**

Work Order: **21111636**

Received by: **DS**

Checklist completed by Diane Shaw 17-Nov-21
eSignature | Date

Reviewed by: Chad Whelton 18-Nov-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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

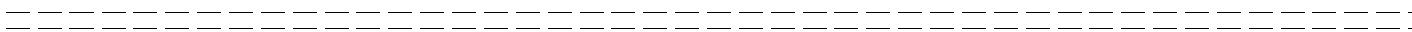
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

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:

Privileged and Confidential

Appendix D

Laboratory Data Quality Review

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 25, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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

Nine (9) groundwater samples, one (1) duplicate groundwater sample 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 shown 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 0.5, 0.7, 0.2 and 2.4°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for calcium, fluoride and TDS. Metals continuing calibration blanks (CCBs) had detections of boron. Samples MW-01, MW-02, MW-17, MW-19, MW-20, MW-22 and DUP-01 were qualified as estimated (J) for boron, due to detections in the CCBs. Sample MW-01 was also qualified as not-detected (U) for sulfate, due to CCB detections.

Blanks

Metals, fluoride, and TDS were reported as not-detected in the method blanks. Chloride was reported as estimated detected in batch R377312 (0.204J mg/L) and batch R377405 (0.215J mg/L), and sulfate was reported as estimated detected in batch R377405 (0.2079J mg/L). Associated samples were reported as greater than 5X the method blank concentration for chloride and sulfate and were not qualified, except for the field blank, FB-01, which was qualified as not-detected (U) for chloride.

One field blank (FB-01) was collected and analyzed as part of this data package. Estimated detections of calcium (0.215J mg/L) and sulfate (0.461J mg/L) were identified in the field blank (FB-01). Sample MW-01 was qualified as not-detected (U) for sulfate, due to field blank contamination.

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 and chloride/sulfate, analyzed on site sample MW-2 were within QC acceptance criteria. MS/MSD analysis is not a requirement of TDS method SM2540C.

Metals batch 162160 MS/MSD analyzed on site sample MW-02 had calcium recovery outside acceptance criteria. However, the amount of calcium spiked was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, this MS/MSD was not used for qualification purposes.

Chloride/Sulfate batch R377312 MS/MSD analyzed on site sample MW-22 had sulfate outside laboratory acceptance criteria. However, the amount of sulfate spiked was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, this MS/MSD was not used for qualification purposes.

Post Digestion Spike and Serial Dilution

The metals post digestion spike (PDS) and serial dilution for metals were within laboratory acceptance criteria.

Laboratory Duplicates

Laboratory duplicate for TDS analyzed on site samples MW-21 and MW-02 were within QC acceptance criteria.

Field Precision

One (1) field duplicate sample was included in this data package (MW-19/DUP-01). Both sample and duplicate, MW-19/DUP-01, were reported as detected for chloride, sulfate, boron, calcium, TDS and fluoride. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for chloride, sulfate, boron, calcium and TDS. Fluoride had sample/duplicate precision outside acceptance criteria. However, the sample/duplicate results were less than 5X the method quantitation limit (MQL) and the difference between sample/duplicate results was less than 2X the MQL; therefore, data were not qualified.

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 Limestone site.

The data user is advised that samples MW-01, MW-02, MW-17, MW-19, MW-20, MW-22 and DUP-01 were qualified as estimated (J) for boron, due to detections in the CCBs. Sample MW-01 was also qualified as not-detected (U) for sulfate, due to CCB detections. Sample MW-01 was also qualified as not-detected (U) for sulfate, due to field blank contamination. The field blank, FB-01, was qualified as not-detected (U) for chloride, due to method blank contamination.

References:

TCEQ. 2010. TRRP 13: Review and Reporting of COC Concentration Data. Texas Commission for Environmental Quality, Austin, Texas.

NRG
Limestone CCR Appendix III
Analytical Report No. HS21010988

Environmental Resources Management (ERM). October 2017. Sampling and Analysis Plan.
W.A. Parish Electric Generating Station, Thompsons, Texas.

NRG
Limestone CCR Appendix III
Analytical Report No. HS21010988

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21010988-01 | MW-01 | Groundwater |
| HS21010988-02 | MW-02 | Groundwater |
| HS21010988-03 | MW-17 | Groundwater |
| HS21010988-04 | MW-19 | Groundwater |
| HS21010988-05 | MW-20 | Groundwater |
| HS21010988-06 | MW-21 | Groundwater |
| HS21010988-07 | MW-22 | Groundwater |
| HS21010988-08 | MW-27R | Groundwater |
| HS21010988-09 | MW-28 | Groundwater |
| HS21010988-10 | DUP-01 | Groundwater |
| HS21010988-11 | FB-01 | Water |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21010988

Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification | Reason for Qualification |
|---|----------|---------------|--|
| MW-01 MW-02 MW-17 MW-19 MW-20 MW-22 DUP-01 | Boron | J | CCB outside acceptance criteria. |
| MW-01 | Sulfate | U | CCB outside acceptance criteria and field blank contamination. |
| FB-01 | Chloride | U | Method blank contamination. |
| <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> | | | |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21010988

Table 3 – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|----------------------|----------|----------------------|-------------------------|------------------|-----------|
| MW-19/DUP-01 | Boron | 0.0421 | 0.0496 | 16 | A |
| | Calcium | 40.4 | 39.6 | 2 | A |
| | Chloride | 44.9 | 45.2 | 1 | A |
| | Sulfate | 89.3 | 89.4 | 0 | A |
| | TDS | 184 | 214 | 15 | A |
| | Fluoride | 0.060J | 0.090J | 40 | 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 25, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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:

- ◇ A4500-F C-11 – 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 technique;
- ◇ 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

Nine (9) groundwater samples, one (1) duplicate groundwater sample 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 of the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 0.5, 0.7, 0.2 and 2.4°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA and SW-846 Method requirements for mercury, fluoride and radium-226/228. Metals had continuing calibration blanks (CCBs) outside acceptance criteria for molybdenum and thallium. Samples MW-02, MW-27R and MW-28 were qualified as not-detected (U) for molybdenum and sample MW-28 was qualified as not-detected (U) for thallium, due to detections in the CCBs.

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 mercury and fluoride were analyzed on site sample MW-02 and were within QC acceptance criteria. MS/MSDs are not a requirement of the radium methods.

Metals MS/MSD analyzed on site sample MW-02 had low recovery for thallium. Sample MW-02 was qualified as estimated low (JL) for thallium, due to low MS/MSD recovery.

Post Digestion Spike and Serial Dilution

The post digestion spike and serial dilution for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicates for Radium-226/228 analyzed on MW-02 were within acceptance criteria.

Field Precision

One (1) field duplicate sample was included in this data package (MW-19/DUP-01). Both sample and duplicate, MW-19/DUP-01, were reported as detected for arsenic, barium, cobalt, lithium, fluoride and radium-228. In addition, DUP-01 was reported as estimated detected for thallium. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, cobalt, lithium and radium-228. Fluoride and thallium RPD were outside acceptance criteria; however, the sample/duplicate results being less than 5X the method quantitation limit (MQL) and the difference between sample and duplicate being less than 2X the MQL; data were not qualified.

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 Limestone site.

The data user is advised that samples MW-02, MW-27R and MW-28 were qualified as not-detected (U) for molybdenum and sample MW-28 was qualified as not-detected (U) for thallium, due to detections in the CCBs. Sample MW-02 was qualified as estimated low (JL) for thallium, 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
Limestone CCR Appendix IV
Analytical Report No. HS21010989

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21010989-01 | MW-01 | Groundwater |
| HS21010989-02 | MW-02 | Groundwater |
| HS21010989-03 | MW-17 | Groundwater |
| HS21010989-04 | MW-19 | Groundwater |
| HS21010989-05 | MW-20 | Groundwater |
| HS21010989-06 | MW-21 | Groundwater |
| HS21010989-07 | MW-22 | Groundwater |
| HS21010989-08 | MW-27R | Groundwater |
| HS21010989-09 | MW-28 | Groundwater |
| HS21010989-10 | DUP-01 | Groundwater |
| HS21010989-11 | FB-01 | Water |

NRG
Limestone CCR Appendix IV
Analytical Report No. HS21010989

Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification | Reason for Qualification |
|---|------------|---------------|---|
| MW-02 MW-27R MW-28 | Molybdenum | U | Analyte detection in the associated CCBs. |
| MW-28 | Thallium | U | Analyte detection in the associated CCBs. |
| MW-02 | Thallim | JL | Low MS/MSD recovery. |
| <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
Limestone CCR Appendix IV
Analytical Report No. HS21010989

Table 3 – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|----------------------|------------|----------------------|-------------------------|------------------|-----------|
| MW-19/DUP-01 | Arsenic | 0.000915J | 0.000935J | 2 | A |
| | Barium | 0.105 | 0.101 | 4 | A |
| | Cobalt | 0.000484J | 0.000512J | 6 | A |
| | Lithium | 0.0122 | 0.0126 | 3 | A |
| | Thallium | 0.000200U | 0.00120J | 142 | A* |
| | Fluoride | 0.060J | 0.090J | 40 | A* |
| | Radium-228 | 0.94+/-0.44 | 1.17+/-0.46 | 22 | 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 sample MW-27R collected March 15, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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

One (1) groundwater sample, MW-27R, was 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 0.8 and 3.7°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for calcium, chloride, sulfate, fluoride, and TDS. Boron had detections reported in the continuing calibrations blanks (CCBs). Sample MW-27R was reported as detected greater than five times the CCB concentrations of boron; therefore, data did not require qualification.

Blanks

Chloride, sulfate, boron, fluoride, and TDS were reported as not-detected in the method blanks. Calcium was reported as detected in the metals method blank at 0.1211J mg/L. Calcium was reported at greater than 5X the method blank concentration in sample MW-27R; therefore, data did not require qualification.

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, metals, chloride and sulfate were analyzed on samples not associated with the project site and were not used for qualification purposes. MS/MSD analysis is not a requirement of TDS method SM2540C.

Post Digestion Spike and Serial Dilution

The metals post digestion spike (PDS) and serial dilution for metals were within laboratory acceptance criteria.

Laboratory Duplicates

The 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 Limestone 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
Limestone CCR Appendix III
Analytical Report No. HS21030755

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21030755-01 | MW-27R | Groundwater |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21030755

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. | | | |

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 sample MW-27R collected March 15, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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:

- ◇ A4500-F C-11 – 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 technique;
- ◇ 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

One (1) groundwater sample, MW-27R, was 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. 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, 0.5, and 3.7°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for mercury, fluoride and radium-226/228. Various metals had detections reported in the continuing calibrations blanks (CCBs). The CCBs that bracketed MW-27R were outside laboratory acceptance criteria for antimony and thallium. Sample MW-27R was reported as not-detected for antimony and thallium and was not qualified.

Blanks

Metals, mercury, fluoride and radium-226/228 were reported as not-detected in the method blanks.

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 fluoride and metals were analyzed on samples not associated with the project site and were not used for qualification purposes. MS/MSD analysis is not a requirement of radium methods. The mercury MS/MSD analyzed on site sample MW-27R was within acceptance criteria.

Post Digestion Spike and Serial Dilution

The metals post digestion spike (PDS) and serial dilution for metals were within laboratory acceptance criteria.

Laboratory Duplicates

The laboratory did not analyze duplicate samples for radium-226/228.

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 Limestone 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
Limestone CCR Appendix IV
Analytical Report No. HS21030756

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21030756-01 | MW-27R | Groundwater |

NRG
Limestone CCR Appendix IV
Analytical Report No. HS21030756

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. | | | |

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 5, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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);
- ◇ SM4500H+B – pH by potentiometry; 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

Nine (9) groundwater samples, one (1) duplicate groundwater sample and one (1) field blank were analyzed for chloride, sulfate, fluoride, metals, and TDS. MW-01 was also analyzed by the laboratory for pH. 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 based on 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 1.3, 1.0, 0.9 and 1.6°C. Samples reported in the data package were prepared and analyzed within holding times, except for pH. pH is considered a field test with a 15-minute holding time; therefore, the laboratory analysis of pH for MW-01 was qualified by the laboratory as outside hold time. No other qualifiers were added for this hold time exceedance, as field pH was also collected.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for calcium, chloride, sulfate, fluoride and TDS. Metals continuing calibration blanks (CCBs) had detections of boron. Associated samples were reported as detected with results greater than 5X the CCB concentrations and were not qualified.

Blanks

Metals, chloride, sulfate, fluoride, and TDS were reported as not-detected in the method blanks.

One field blank (FB-01) was collected and analyzed as part of this data package. The field blank was reported as not-detected for metals, chloride, sulfate, fluoride and TDS.

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 analyzed on site sample MW-02 and chloride/sulfate, analyzed on site samples MW-02 and MW-28 were within QC acceptance criteria. Sulfate batch R381543 MS/MSD was analyzed on a sample not associated with the

project site and was not evaluated or used for qualification purposes. MS/MSD analysis is not a requirement of TDS method SM2540C.

Metals batch 164464 MS/MSD analyzed on site sample MW-02 had calcium recovery outside acceptance criteria. However, the amount of calcium spiked was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, this MS/MSD was not used for qualification purposes.

Post Digestion Spike and Serial Dilution

The metals post digestion spike (PDS) and serial dilution for metals were within laboratory acceptance criteria.

Laboratory Duplicates

Laboratory duplicate for TDS analyzed on site samples MW-02 were within QC acceptance criteria. Although not analyzed on a site specific sample the laboratory duplicate for pH was within acceptance criteria.

Field Precision

One (1) field duplicate sample was included in this data package (MW-19/DUP-01). Both sample and duplicate, MW-19/DUP-01, were reported as detected for chloride, sulfate, boron, calcium, TDS and fluoride. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for the listed compounds.

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 Limestone 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
Limestone CCR Appendix III
Analytical Report No. HS21040187

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21040187-01 | MW-01 | Groundwater |
| HS21040187-02 | MW-02 | Groundwater |
| HS21040187-03 | MW-17 | Groundwater |
| HS21040187-04 | MW-19 | Groundwater |
| HS21040187-05 | MW-20 | Groundwater |
| HS21040187-06 | MW-21 | Groundwater |
| HS21040187-07 | MW-22 | Groundwater |
| HS21040187-08 | MW-27R | Groundwater |
| HS21040187-09 | MW-28 | Groundwater |
| HS21040187-10 | DUP-01 | Groundwater |
| HS21040187-11 | FB-01 | Water |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21040187

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
Limestone CCR Appendix III
Analytical Report No. HS21040187

Table 3 – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|----------------------|----------|----------------------|-------------------------|------------------|-----------|
| MW-19/DUP-01 | Boron | 0.0434 | 0.0488 | 12 | A |
| | Calcium | 33.8 | 33.8 | 0 | A |
| | Chloride | 47.4 | 36.9 | 25 | A |
| | Sulfate | 91.5 | 78.3 | 16 | A |
| | TDS | 350 | 320 | 9 | A |
| | Fluoride | 0.060J | 0.060J | 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 April 5, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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:

- ◇ A4500-F C-11 – 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 technique;
- ◇ 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

Nine (9) groundwater samples, one (1) duplicate groundwater sample 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 of the paperwork filled out properly. The laboratory sample receipt checklist stated the samples were received at temperatures of 1.3, 1.0, 0.9 and 1.6°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA and SW-846 Method requirements for mercury, fluoride and radium-226/228. Metals had continuing calibration blanks (CCBs) outside acceptance criteria for antimony and thallium. Sample MW-28 was qualified as not-detected (U) for thallium and sample FB-01 was qualified as not-detected (U) for antimony and thallium, due to detections in the CCBs.

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 mercury, fluoride and radium-226/228. Metals that were detected in the field blank were determined to be not-detected due to detections in the CCBs.

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 mercury, metals batch 164465 and fluoride were analyzed on site sample MW-02 and were within QC acceptance criteria. Metals

batch 164464 MS/MSD was analyzed on a sample not associated with the project site and was not evaluated and not used for qualification purposes. MS/MSDs are not a requirement of the radium methods.

Post Digestion Spike and Serial Dilution

The post digestion spike and serial dilution for metals were within acceptance criteria.

Laboratory Duplicates

Laboratory duplicates for Radium-226/228 analyzed on MW-02 were within acceptance criteria.

Field Precision

One (1) field duplicate sample was included in this data package (MW-19/DUP-01). Both sample and duplicate, MW-19/DUP-01, were reported as detected for arsenic, barium, cadmium, lithium, fluoride, radium-226 and radium-228. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for arsenic, barium, cadmium, lithium, fluoride and radium-228. Radium-226 RPD was outside acceptance criteria and samples MW-19 and DUP-01 were qualified as estimated (J), 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 Limestone site.

The data user is advised that Sample MW-28 was qualified as not-detected (U) for thallium and sample FB-01 was qualified as not-detected (U) for antimony and thallium, due to detections in the CCBs. Samples MW-19 and DUP-01 were qualified as estimated (J) for radium-226, 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
Limestone CCR Appendix IV
Analytical Report No. HS21040188

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21040188-01 | MW-01 | Groundwater |
| HS21040188-02 | MW-02 | Groundwater |
| HS21040188-03 | MW-17 | Groundwater |
| HS21040188-04 | MW-19 | Groundwater |
| HS21040188-05 | MW-20 | Groundwater |
| HS21040188-06 | MW-21 | Groundwater |
| HS21040188-07 | MW-22 | Groundwater |
| HS21040188-08 | MW-27R | Groundwater |
| HS21040188-09 | MW-28 | Groundwater |
| HS21040188-10 | DUP-01 | Groundwater |
| HS21040188-11 | FB-01 | Water |

NRG
Limestone CCR Appendix IV
Analytical Report No. HS21040188

Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification | Reason for Qualification |
|---|----------------------|---------------|---|
| MW-28 | Thallium | U | Analyte detection in the associated CCBs. |
| FB-01 | Antimony Thallium | U | Analyte detection in the associated CCBs. |
| MW-19 DUP-01 | Radium-226 | J | 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> | | | |

NRG
Limestone CCR Appendix IV
Analytical Report No. HS21040188

Table 3 – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|----------------------|------------|----------------------|-------------------------|------------------|-----------|
| MW-19/DUP-01 | Arsenic | 0.000874J | 0.000822J | 6 | A |
| | Barium | 0.108 | 0.104 | 4 | A |
| | Cadmium | 0.000266J | 0.000274J | 3 | A |
| | Lithium | 0.0123 | 0.0128 | 4 | A |
| | Fluoride | 0.060J | 0.060J | 0 | A |
| | Radium-226 | 0.29 +/- 0.22 | 0.77 +/- 0.35 | 91 | X |
| | Radium-228 | 0.9 +/- 0.43 | 1.07 +/- 0.47 | 17 | 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 October 13, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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, one (1) duplicate groundwater sample 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 shown 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 0.8 and 3.3°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for boron, chloride, sulfate, fluoride and TDS. Metals continuing calibration blanks (CCBs) had detections of calcium. Associated samples were reported as detected for calcium greater than 5X the CCB concentrations and were not qualified.

Blanks

Metals, chloride, sulfate, fluoride, and TDS were reported as not-detected in the method blanks.

One field blank (FB-01) was collected and analyzed as part of this data package. An estimated detection of calcium (0.342J mg/L) was identified in the field blank (FB-01). Associated samples were reported for calcium greater than 5X the field blank concentration and were not 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 batch R330683 analyzed on site sample MW-02 and chloride/sulfate, analyzed on site samples MW-02 and MW-20 were within QC acceptance criteria. Fluoride batch R330127 MS/MSD was analyzed on a sample not associated with the project site and was not evaluated or used for qualification purposes. MS/MSD analysis is not a requirement of TDS method SM2540C.

Metals batch 171472 MS/MSD analyzed on site sample MW-02 had calcium recovery outside acceptance criteria. However, the amount of calcium spiked was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, this MS/MSD was not used for qualification purposes.

Fluoride batch R329907 MS/MSD analyzed on site sample MW-02 had elevated fluoride recovery. MW-02 sample was not included in this batch and MW-02 was used as the MS/MSD for batch R33068 and was within limits. Based on professional judgement, data were not qualified.

Post Digestion Spike and Serial Dilution

The metals post digestion spike (PDS) was outside acceptance limits for calcium. However, the amount of calcium spiked was less than 4X the unspiked parent sample and was not used for qualification purposes. The serial dilution for metals was within laboratory acceptance criteria.

Laboratory Duplicates

Laboratory duplicate for TDS analyzed on site sample MW-02 was within QC acceptance criteria.

Field Precision

One (1) field duplicate sample was included in this data package (MW-19/Dup-01). Both sample and duplicate, MW-19/Dup-01, were reported as detected for boron, calcium, chloride, sulfate, TDS and fluoride. The relative percent difference (RPD) between sample and duplicate was within the QC acceptance criteria of 30% for boron, calcium, chloride, sulfate, and TDS. Fluoride had sample/duplicate precision outside acceptance criteria. Samples MW-19 and Dup-01 were qualified as estimated (J) for fluoride, 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 Limestone site.

The data user is advised that samples MW-19 and Dup-01 were qualified as estimated (J) for fluoride, 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
Limestone CCR Appendix III
Analytical Report No. HS21100833

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21100833-01 | MW-01 | Groundwater |
| HS21100833-02 | MW-02 | Groundwater |
| HS21100833-03 | MW-17 | Groundwater |
| HS21100833-04 | MW-18 | Groundwater |
| HS21100833-05 | MW-19 | Groundwater |
| HS21100833-06 | MW-20 | Groundwater |
| HS21100833-07 | MW-21 | Groundwater |
| HS21100833-08 | MW-22 | Groundwater |
| HS21100833-09 | MW-27R | Groundwater |
| HS21100833-10 | MW-28 | Groundwater |
| HS21100833-11 | Dup-01 | Groundwater |
| HS21100833-12 | FB-01 | Water |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21100833

Table 2 – Qualified Analytical Data

| Field Identification | Analyte | Qualification | Reason for Qualification |
|---|----------|---------------|---|
| MW-19 Dup-01 | Fluoride | 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
Limestone CCR Appendix III
Analytical Report No. HS21100833

Table 3 – Field Precision

| Field Identification | Analyte | Sample Result (mg/L) | Duplicate Result (mg/L) | RPD ^a | Qualified |
|----------------------|----------|----------------------|-------------------------|------------------|-----------|
| MW-19/Dup-01 | Boron | 0.0387 | 0.0430 | 11 | A |
| | Calcium | 33.2 | 36.2 | 9 | A |
| | Chloride | 39.6 | 40.1 | 1 | A |
| | Sulfate | 91.2 | 92.4 | 1 | A |
| | TDS | 324 | 352 | 8 | A |
| | Fluoride | 0.060J | 0.64 | 155 | X |

^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 November 11, 2021 at the NRG Limestone Electric Generating Station (Limestone) in Jewett, 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

One (1) groundwater, MW-21, sample was 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 based on this review (see Table 2).

Preservation and Holding Times

The sample was evaluated for agreement with the chain-of-custody. The sample was received in the appropriate containers with the paperwork filled out properly. The laboratory sample receipt checklist stated the sample was received at temperatures of 0.7 and 3.8°C. Samples reported in the data package were prepared and analyzed within holding times.

Calibrations

According to the LRC, initial and continuing calibration data met EPA, Standard Method (SM) and SW-846 Method requirements for calcium, chloride, fluoride and TDS. Continuing calibration blanks (CCBs) had detections of boron and sulfate. The associated sample was reported as detected with results greater than 5X the CCB concentrations and was not qualified.

Blanks

Metals, chloride, sulfate, fluoride, 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 metals and fluoride were analyzed on samples not associated with the project site and were not evaluated or used for qualification purposes. MS/MSD analysis is not a requirement of TDS method SM2540C.

Chloride/Sulfate batch R396109 MS/MSD analyzed on site sample MW-21 had low sulfate recovery. However, the amount of sulfate spiked was less than 4X the unspiked parent sample and may not represent the matrix effect; therefore, this MS/MSD was not used for qualification purposes.

Post Digestion Spike and Serial Dilution

A metals post digestion spike and serial dilution were not analyzed by the laboratory for sample MW-21.

Laboratory Duplicates

Although not analyzed on a site specific sample, laboratory duplicates for TDS were 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 Limestone 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
Limestone CCR Appendix III
Analytical Report No. HS21110808

Table 1 – Cross-Reference between Laboratory and Field Identifications

| Laboratory Identification | Field Identification | Matrix Type |
|---------------------------|----------------------|-------------|
| HS21110808-01 | MW-21 | Groundwater |

NRG
Limestone CCR Appendix III
Analytical Report No. HS21110808

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

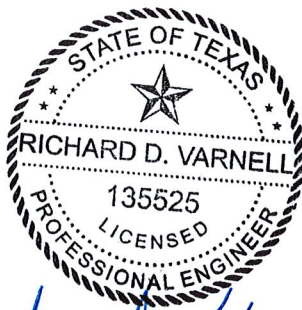


Alternative Source Demonstration

Limestone Electric Generating Station Landfill (Unit 004)

May 2021

*Prepared For
NRG Texas Power, LLC
Jewett, Texas*



A handwritten signature in blue ink that reads "Richard Varnell".

Richard Varnell, P.E.
Senior Engineer

FIRM # 3775

A handwritten signature in blue ink that reads "Tony Dworczyk".

Tony Dworczyk, P.G.
Project Manager

TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, Limestone, Landfill (Unit 004)

[HTTPS://TRCCOMPANIES-MY.SHAREPOINT.COM/PERSONAL/RVARNELL_TRCSOLUTIONS_COM/DOCUMENTS/DOCUMENTS/NRG/11-ASDS/LIMESTONE/2021/05_2021-ASD-LMS-LANDFILL-FINAL.DOCX](https://trccompanies-my.sharepoint.com/personal/rvarnell_trcsolutions_com/documents/documents/nrg/11-ASDS/LIMESTONE/2021/05_2021-ASD-LMS-LANDFILL-FINAL.DOCX)

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Executive Summary

The NRG Texas Power, LLC (NRG) Limestone Electric Generating Station (Station) is located approximately seven miles northwest of Jewett, Texas and approximately 0.5 miles north of the intersection of Limestone, Freestone, and Leon Counties. Units managing coal combustion residuals (CCR) at the Station are subject to the United States Environmental Protection Agency's (USEPA's) 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 consists of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has two active CCR units that are managed pursuant to the CCR Rule, including the Landfill (Unit 004), 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 4, 2020. Statistical evaluation of the Appendix III monitoring parameters was completed on March 7, 2021, to identify apparent statistically significant increases (SSIs) above background pursuant to §257.93(f) and (g). The statistical evaluation identified two potential SSIs in monitoring wells at the Landfill, one of which is located at an upgradient well. This ASD [prepared in accordance with 257.94(e)] successfully identified alternative sources for the potential SSIs. Therefore, detection monitoring will be continued for the Landfill.

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 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 a new background data set has been established for statistical evaluation purposes.

Section 1

Introduction

1.1 Background

The NRG Texas Power, LLC (NRG) Limestone Electric Generating Station (Station) is located approximately seven miles northwest of Jewett, Texas and approximately 0.5 miles north of the intersection of Limestone, Freestone, and Leon Counties. The Station is bisected by Farm-to-Market Road 39 (FM 39), which runs north-south through the middle of the Station. The western portion of the Station is located in Limestone County and includes the electricity generating portion of the Station. The eastern portion of the Station is located in Freestone County and includes the solid waste disposal area (SWDA).

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 one active CCR-management unit:

- Landfill (Unit 004).

A second CCR management unit, the Secondary E Pond (Unit 003), was closed by NRG in 2020.

The landfill unit is located within the western portion of the Station as shown on Figure 1. The Landfill was constructed in 1980 and is used for the final disposition of CCR. The western half of the landfill has reached capacity and historically has been closed and capped prior to the effective date of the CCR Rule. CCR is currently being placed at the southern portion of the landfill.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater 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 for the Landfill were documented in the *Annual Groundwater Monitoring Report, Landfill (Unit 004)* (ERM 2018a) and the *Groundwater Monitoring Report, Landfill (Unit 004)* (ERM 2018b) pursuant to §257.90(e). No apparent statistically significant increases (SSIs) above background were identified in groundwater for the Landfill for the first semiannual detection monitoring event.

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 SSIs pursuant to §257.93(f) and (g). The statistical evaluation again identified no apparent SSIs in monitoring wells at the Landfill.

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 pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential SSIs, one of which was located at an upgradient monitoring 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.

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 SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential 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.

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 SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four potential SSIs. The ASD was placed into the FOR and will be provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

Because of persistent high field pH results for upgradient monitoring well MW-27 that were potentially caused by grout within the well screen, MW-27 was replaced by MW-27R on March 19 and 20, 2020. The replacement monitoring well is located adjacent to the original monitoring well. Field pH results from MW-27R during the April 2020 semiannual detection monitoring event were consistent with earlier, baseline results from MW-27, which are assumed to represent natural conditions.

The sixth semiannual detection monitoring event was conducted in April 2020. Laboratory analytical data were received by NRG in May 2020. Statistical evaluation was completed in August 2020 to identify SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four potential SSIs. The ASD was placed into the FOR and will be 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. NRG received the final laboratory analytical results on November 4, 2020. Statistical evaluation was completed in March 2021 to identify SSIs pursuant to 257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential SSIs (chloride in upgradient monitoring well MW-28 and boron in downgradient well MW-21). On behalf of NRG, TRC Environmental Corporation (TRC) prepared this ASD to evaluate the apparent SSIs 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, Waco Sheet* (BEG 1972), the Station is primarily located within the outcrop of the Calvert Bluff Formation of the Wilcox Group. Minor portions of the southeast corner of the Station are located within the outcrop of the Carrizo Sand and minor portions of the southwest corner of the Station are immediately underlain by alluvium. The Calvert Bluff Formation underlies both the Carrizo Sand and alluvium where present.

The Landfill is located solely within the outcrop of the Calvert Bluff Formation (BEG 1972); however, site investigation data indicate the Landfill may also be located within the outcrop of the Carrizo Sand. The Calvert Bluff Formation consists mostly of mudstone interbedded with fine sandstone, lignite, and ironstone concretions. The mudstone contains silt and very fine sand laminae. The Carrizo Sand consists of very fine sand with partings of silty clay, carbonaceous clay, and ironstone. The Carrizo Sand and the Wilcox Group comprise the Carrizo-Wilcox aquifer, which is recognized by the Texas Water Development Board (TWDB) as a major aquifer system in Texas. The Station is located within the outcrop, or the recharge zone, of the Carrizo-Wilcox aquifer (TWDB 2011).

Site investigations were conducted at the Station by Espey, Huston & Associated in 1986; Radian International in 1996 and 1997; EPRI in 2007, and Environmental Resources Management, Inc. (ERM) in 2016. The results of these investigations were summarized in the October 2017 *Ground Water Monitoring Networks for Coal Combustion Residual (CCR) Rule Compliance* report (ERM 2017b). Surficial material at the Landfill consists of in-situ or reworked clay from the Axtell-Tabor soil association. This clay is the source material for the Landfill liner and cap. Boring logs indicate the surficial material is underlain by interbedded clays, silts, and sands of the Quaternary alluvium, Carrizo Sand, and Calvert Bluff Formation. The boundaries between these units are generally indistinguishable.

The certified CCR monitoring well network for the Landfill consists of two upgradient, background monitoring wells (MW-27 [now MW-27R] and MW-28) and eight downgradient monitoring wells (MW-1, MW-2, MW-17, MW-19, MW-20, MW-21, and MW-22). MW-18, a formerly monitored well, was dropped from the monitoring program. A groundwater potentiometric surface map was prepared by TRC for the

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Alternate Source Demonstration, Limestone, Landfill (Unit 004)

October 2020 semiannual detection monitoring event and is provided in this ASD as Figure 2. The direction of groundwater flow beneath the Landfill was to the south - southwest.



LEGEND
 APPROXIMATE PROPERTY BOUNDARY

REFERENCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
 DONIE, TEXAS (2016)
 FARRAR, TEXAS (2016)

TEXAS
 QUADRANGLE LOCATION

SCALE IN FEET
 1" = 3,000'-0"

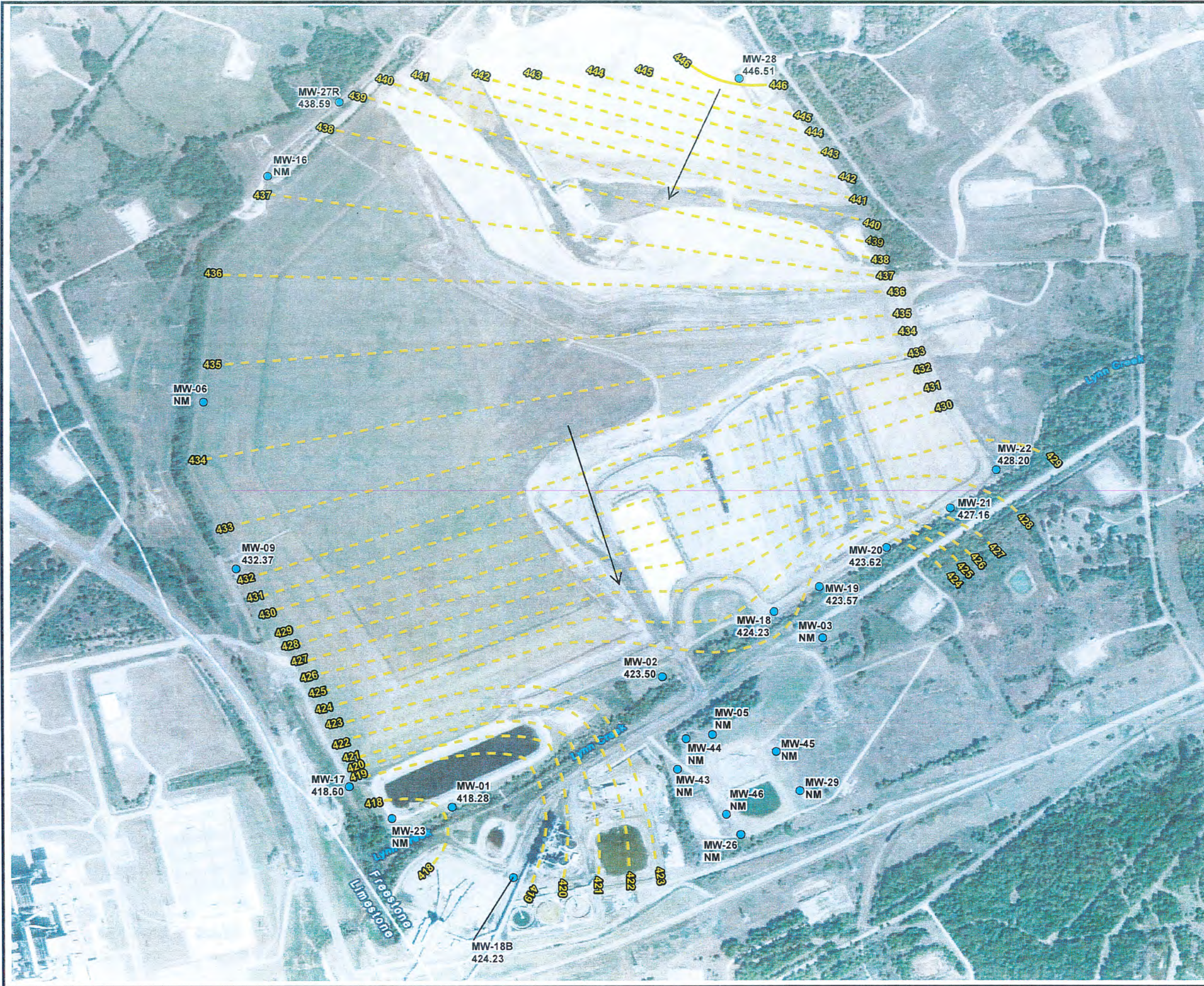
PROJECT: **NRG TEXAS POWER, LLC**
 Limestone Electric Generating Station
 Jewett, Texas

TITLE: **SITE LOCATION MAP**

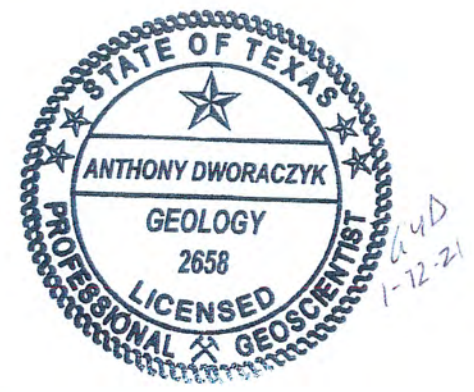
| | |
|---------------------------|-------------------------------|
| DRAWN BY: O. Fonseca | PROJECT No.: 298367.0000.0000 |
| CHECKED BY: T. Dworaczyk | FIGURE 1-1 |
| APPROVED BY: T. Dworaczyk | |
| DATE: January 2019 | |

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

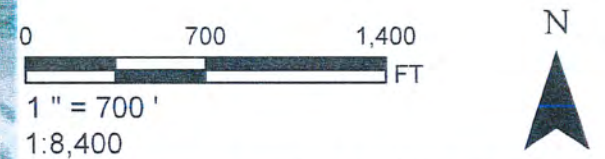
FILE: Fig 1-1 - NRG-LimestoneStation - Site Location Map.dwg



- Legend**
- MONITORING WELL
 - 418.28 GROUNDWATER ELEVATION (FT MSL)
 - NM NOT MEASURED
 - ← GROUNDWATER FLOW DIRECTION
 - GROUNDWATER ELEVATION CONTOUR - DASHED WHERE INFERRED (FT MSL)



NOTE:
GROUNDWATER ELEVATIONS MEASURED
BY HMI ON OCTOBER 26, 2020.



| | | | |
|--------------|--------------|---|------------------------|
| PROJECT: | | NRG TEXAS POWER, LLC LIMESTONE JEWETT, TEXAS | |
| TITLE: | | GROUNDWATER POTENTIOMETRIC SURFACE - OCTOBER 2020 | |
| DRAWN BY: | F. YARBROUGH | PROJ. NO.: | 298367.2002.0000 |
| CHECKED BY: | | FIGURE 2-5 | |
| APPROVED BY: | | | |
| DATE: | JANUARY 2021 | | |
| | | 16350 Park Ten Place, Suite 101 Houston, TX, 77084 Phone 281.616.0100 www.trcsolutions.com | |
| | | FILE NO.: | 298367_2-5_October.mxd |

Section 2

Alternative Source Demonstration

The seventh semiannual detection monitoring event was conducted in April 2020. Laboratory analytical data were received by NRG on May 15, 2020. Statistical evaluation to identify SSIs was completed in August 2020 pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified four apparent SSIs (calcium and chloride in upgradient monitoring well MW-28, low field pH in downgradient monitoring well MW-1, and boron in downgradient monitoring well MW-21). 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 of the background monitoring results) identified four apparent SSIs for the Landfill, as shown on Table 1.

Table 1
SSIs – October 2020 Detection Monitoring Event

| ANALYTE | WELL | LTL | UTL | SAMPLE DATE | VALUE | UNIT |
|----------|------------|-----|-------|-------------|-------|------|
| Chloride | MW-28 (UG) | NA | 1,607 | 10/26/2020 | 2,220 | mg/L |
| Boron | MW-21 (DG) | NA | 0.282 | 10/26/2020 | 0.493 | mg/L |

Notes: UG = Upgradient
 DG = Downgradient
 mg/L = milligrams per Liter

Alternative sources for the potential Landfill SSIs are non-CCR sources located in the vicinity of the Landfill. The Station and surrounding vicinity are densely populated with historical and current oil and gas activities consisting primarily of natural gas production wells. Numerous active natural gas wells and their associated well pads and surface pits are located immediately surrounding and within the footprint of the Landfill. Figure 3 is a Mid-East Texas Groundwater Conservation District (METGCD) well map showing the locations of wells in the vicinity of the Landfill. The map is limited to Freestone and Leon counties, and does not show wells in Limestone County immediately west of the Landfill. This figure demonstrates the extent to which non-CCR sources of constituents to groundwater pervade the vicinity of the landfill.

Surface well pits typically contain spent completion fluids or workover fluids. Completion or workover fluids are often brine-containing liquids that are used for well testing and are chemically compatible with the formation fluids; and the spent fluids contained in the pits would have come into contact with formation fluids. According to the United States Geological Survey (USGS) National Produced Waters Geochemical Database, water co-produced with hydrocarbons (referred to as “produced water” or

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 Alternate Source Demonstration, Limestone, Landfill (Unit 004)*

“formation water”) from geologic formations underlying the Site has the following composition (USGS 2018):

- pH ranging from 4.67 standard units (SU) to 5.6 SU;
- Calcium ranging from 12,560 milligrams per liter (mg/L) to 33,520 mg/L;
- Chloride ranging from 56,980 mg/L to 96,200 mg/L
- Sulfate ranging from 480 mg/L to 1,790 mg/L; and
- Total dissolved solids (TDS) ranging from 98,330 mg/L to 152,970 mg/L.

Considering the composition of the formation water with which the completion or workover fluids came into contact and the typical brine composition of these fluids, potential releases of these fluids would be expected to affect groundwater quality within the immediate vicinity and downgradient of the natural gas well pads and surface pits. Even minor releases of these fluids could increase the concentrations of calcium, chloride, sulfate, and TDS and decrease the pH in the nearby Landfill upgradient and downgradient monitoring wells.

Although boron is not included as a characteristic of completion or workover fluids, boron (in the form of boric acid) is a component of hydraulic fracturing (fracing) fluids which may have been used at one or more of the natural gas wells in the area. Boron concentrations have been increasing in MW-21, which is downgradient of Area 12 in the Landfill and of oil and gas activities that are present to the east of the Landfill. Boron is also persistently present at upgradient monitoring well MW-28, which is also influenced by oil and gas activities in the vicinity of the Landfill. Table 2 provides both the detection monitoring boron data and the additional new background boron data for MW-21 and upgradient monitoring well MW-28. This table demonstrates that the upgradient monitoring well has experienced similar boron concentrations.

Table 2 Upgradient and Downgradient Boron Concentrations

| DATE | EVENT | MW-28 (UG) | MW-21 (DG) |
|---------------|------------------------|------------|------------|
| May 2016 | Baseline | 0.23 | <0.07 |
| August 2016 | Baseline | 0.21 | <0.07 |
| October 2016 | Baseline | 0.191 | <0.07 |
| November 2016 | Baseline | 0.2 | <0.07 |
| January 2017 | Baseline | 0.19 | <0.07 |
| February 2017 | Baseline | 0.26 | <0.07 |
| March 2017 | Baseline | 0.2 | <0.07 |
| August 2017 | Baseline | 0.176 | <0.07 |
| October 2017 | Detection Monitoring 1 | 0.197 | <0.07 |

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 Alternate Source Demonstration, Limestone, Landfill (Unit 004)

Table 2 Upgradient and Downgradient Boron Concentrations

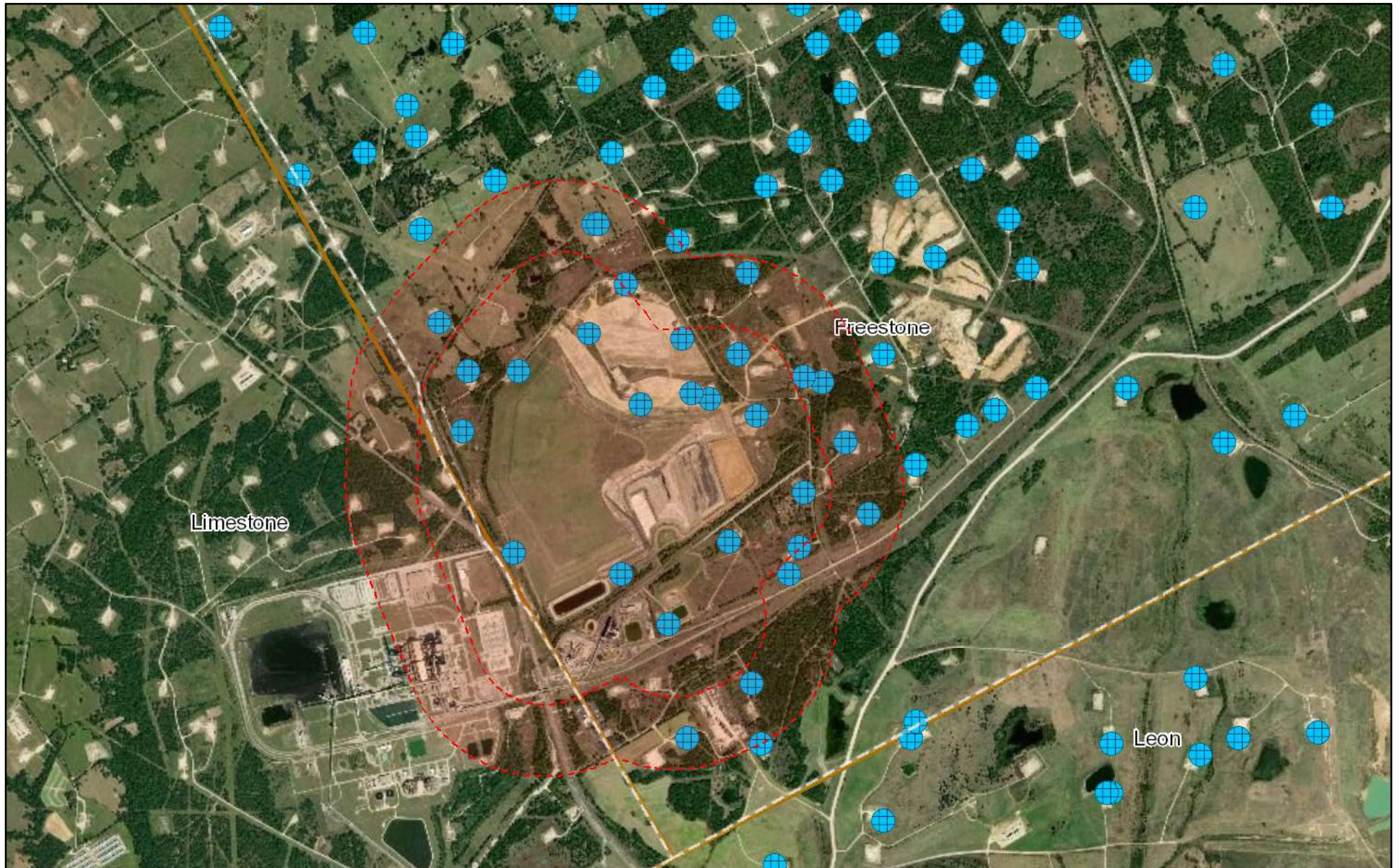
| DATE | EVENT | MW-28 (UG) | MW-21 (DG) |
|--------------|------------------------|------------|------------|
| May 2018 | Detection Monitoring 2 | 0.241 | 0.0797 |
| October 2018 | Detection Monitoring 3 | 0.185 | 0.107 |
| April 2019 | Detection Monitoring 4 | 0.196 | 0.25 |
| July 2019 | New Baseline 1 | 0.326 | 0.333 |
| October 2019 | Detection Monitoring 5 | 0.207 | 0.35 |
| January 2020 | New Baseline 3 | 0.383 | 0.388 |
| April 2020 | Detection Monitoring 6 | 0.178 | 0.425 |
| July 2020 | New Baseline 5 | 0.175 | 0.427 |
| October 2020 | Detection Monitoring 7 | 0.162 | 0.493 |
| January 2021 | New Baseline 7 | 0.231 | 0.594 |

Although the boron concentrations appear to be increasing in MW-21, they still appear to be similar enough that the concentrations present in MW-21 could be within the range of an anthropogenic background. This will be further evaluated once the new upper tolerance limit (UTL) has been calculated for boron (as discussed below).

Additionally, the background groundwater data for this CCR unit were established using a background monitoring period of just 15 months. This is a short background period for statistical evaluation and comparisons. However, as discussed in the third detection monitoring ASD (September 2019) for the Landfill, NRG has concluded that the original background 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 will be 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.

During the timeframe of collecting the new background samples, the original background upper tolerance limits will continue to be used for statistical evaluation of the semiannual detection monitoring results. ASDs will continue to be prepared as needed for SSIs based on the original background data set until the new background 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.



July 3, 2019

polygonLayer

Override 1

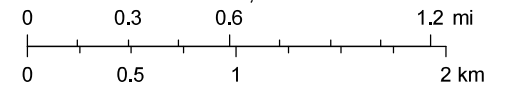
METGCD Wells

METGCD Wells

Yes

Counties

1:36,112



Half Associates, Inc.
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user

Section 3

Conclusions

The statistical evaluation identified two apparent SSIs (chloride in upgradient monitoring well MW-28 and boron in downgradient monitoring well MW-21). This ASD has identified the following lines of reasoning that support alternative sources for these two apparent SSIs:

- One of the two apparent SSIs (chloride in MW-28) was identified in an upgradient monitoring well. Therefore, this SSI may be related to ongoing variations in background groundwater quality unrelated to the CCR unit.
- Numerous active natural gas wells and their associated well pads and surface pits are located immediately surrounding and within the footprint of the Landfill. Well pits associated with the natural gas wells contribute spent completion or workover fluids to groundwater that contain constituents that are also CCR Rule detection monitoring constituents.

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 Landfill is unreliable and a new background data set will be developed. Until the new background water quality data set has been developed, the existing background 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 Landfill have been shown to likely be responsible for both of the apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the Landfill.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the Limestone Electric Generating Station Landfill 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

References

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Alternative Source Demonstration

Limestone Electric Generating Station Landfill (Unit 004)

November 2021

*Prepared For
NRG Texas Power, LLC
Jewett, Texas*

A handwritten signature in blue ink that reads "Richard Varnell".

Richard Varnell, P.E.
Senior Engineer

A handwritten signature in blue ink that reads "Tony Dworaczyk".

Tony Dworaczyk, P.G.
Project Manager

*TRC Environmental Corporation | NRG Texas Power, LLC
Alternate Source Demonstration, Limestone, Landfill (Unit 004)*

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Executive Summary

The NRG Texas Power, LLC (NRG) Limestone Electric Generating Station (Station) is located approximately seven miles northwest of Jewett, Texas and approximately 0.5 miles north of the intersection of Limestone, Freestone, and Leon Counties. Units managing coal combustion residuals (CCR) at the Station are subject to the United States Environmental Protection Agency's (USEPA's) 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 consists of fly ash, bottom ash, and flue gas desulfurization (FGD) scrubber sludge. The Station has one active CCR unit that are managed pursuant to the CCR Rule, including the Landfill (Unit 004), 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 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 seven potential SSIs in monitoring wells at the Landfill, five of which are located at upgradient wells. This ASD [prepared in accordance with 257.94(e)] successfully identified alternative sources for the potential SSIs. Therefore, detection monitoring will be continued for the Landfill.

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 monitoring 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) Limestone Electric Generating Station (Station) is located approximately seven miles northwest of Jewett, Texas and approximately 0.5 miles north of the intersection of Limestone, Freestone, and Leon Counties. The Station is bisected by Farm-to-Market Road 39 (FM 39), which runs north-south through the middle of the Station. The western portion of the Station is located in Limestone County and includes the electricity generating portion of the Station. The eastern portion of the Station is located in Freestone County and includes the solid waste disposal area (SWDA).

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 Landfill (Unit 004) is the only active CCR-management unit at the Station.

The landfill unit is located within the eastern portion of the Station as shown on Figure 1. The Landfill was constructed in 1980 and is used for the final disposition of CCR. The western half of the landfill has reached capacity and historically has been closed and capped prior to the effective date of the CCR Rule. CCR is currently being placed at the southern portion of the landfill.

On behalf of NRG, Environmental Resources Management, Inc. (ERM) conducted eight independent background groundwater 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 for the Landfill were documented in the *Annual Groundwater Monitoring Report, Landfill (Unit 004)* (ERM 2018a) and the *Groundwater Monitoring Report, Landfill (Unit 004)* (ERM 2018b) pursuant to §257.90(e). No apparent statistically significant increases (SSIs) above background were identified in groundwater for the Landfill for the first semiannual detection monitoring event.

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 SSIs pursuant to §257.93(f) and (g). The statistical evaluation again identified no apparent SSIs in monitoring wells at the Landfill.

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 pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential SSIs, one of which was located at an upgradient monitoring 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.

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 SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential 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.

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 SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four potential SSIs. The ASD was placed into the FOR and will be provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

Because of persistent high field pH results for upgradient monitoring well MW-27 that were potentially caused by grout within the well screen, MW-27 was replaced by MW-27R on March 19 and 20, 2020. The replacement monitoring well is located adjacent to the original monitoring well. Field pH results from MW-27R during the April 2020 semiannual detection monitoring event were consistent with earlier, baseline results from MW-27, which are assumed to represent background conditions.

The sixth semiannual detection monitoring event was conducted in April 2020. Laboratory analytical data were received by NRG in May 2020. Statistical evaluation was completed in August 2020 to identify SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified four potential SSIs. The ASD was placed into the FOR and will be 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. Laboratory analytical data were received by NRG in November 2020. Statistical evaluation was completed in March 2021 to identify SSIs pursuant to §257.93(f) and (g) and the revised statistical method for the CCR unit. The statistical evaluation identified two potential SSIs. The ASD was placed into the FOR and will be provided with the *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Station.

1.2 Purpose

The purpose of this ASD is to evaluate the apparent SSIs 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, Waco Sheet* (BEG 1972), the Station is primarily located within the outcrop of the Calvert Bluff Formation of the Wilcox Group. Minor portions of the southeast corner of the Station are located within the outcrop of the Carrizo Sand and minor portions of the southwest corner of the Station are immediately underlain by alluvium. The Calvert Bluff Formation underlies both the Carrizo Sand and alluvium where present.

The Landfill is located solely within the outcrop of the Calvert Bluff Formation (BEG 1972); however, site investigation data indicate the Landfill may also be located within the outcrop of the Carrizo Sand. The Calvert Bluff Formation consists mostly of mudstone interbedded with fine sandstone, lignite, and ironstone concretions. The mudstone contains silt and very fine sand laminae. The Carrizo Sand consists of very fine sand with partings of silty clay, carbonaceous clay, and ironstone. The Carrizo Sand and the Wilcox Group comprise the Carrizo-Wilcox aquifer, which is recognized by the Texas Water Development Board (TWDB) as a major aquifer system in Texas. The Station is located within the outcrop, or the recharge zone, of the Carrizo-Wilcox aquifer (TWDB 2011).

Site investigations were conducted at the Station by Espey, Huston & Associated in 1986; Radian International in 1996 and 1997; EPRI in 2007, and Environmental Resources Management, Inc. (ERM) in 2016. The results of these investigations were summarized in the October 2017 *Ground Water Monitoring Networks for Coal Combustion Residual (CCR) Rule Compliance* report (ERM 2017b). Surficial material at the Landfill consists of in-situ or reworked clay from the Axtell-Tabor soil association. This clay is the source material for the Landfill liner and cap. Boring logs indicate the surficial material is underlain by interbedded clays, silts, and sands of the Quaternary alluvium, Carrizo Sand, and Calvert Bluff Formation. The boundaries between these units are generally indistinguishable.

The certified CCR monitoring well network for the Landfill consists of two upgradient, background monitoring wells (MW-27 [now MW-27R] and MW-28) and eight downgradient monitoring wells (MW-1, MW-2, MW-17, MW-18, MW-19, MW-20, MW-21, and MW-22). The direction of groundwater flow beneath the Landfill has been to the south - southwest.

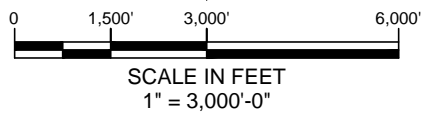


LEGEND
 APPROXIMATE PROPERTY BOUNDARY

REFERENCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
 DONIE, TEXAS (2016)
 FARRAR, TEXAS (2016)



TEXAS
 QUADRANGLE LOCATION



PROJECT: **NRG TEXAS POWER, LLC**
 Limestone Electric Generating Station
 Jewett, Texas

TITLE: **SITE LOCATION MAP**

| | | | |
|--------------|--------------|-----------------|------------------|
| DRAWN BY: | O. Fonseca | PROJECT No.: | 298367.0000.0000 |
| CHECKED BY: | T. Dworaczyk | FIGURE 1 | |
| APPROVED BY: | T. Dworaczyk | | |
| DATE: | January 2019 | | |



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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 SSIs was completed by August 29, 2010 pursuant to §257.93(f) and (g) and the revised statistical method for the CCR units. The statistical evaluation identified seven apparent SSIs (calcium and chloride in upgradient monitoring wells MW-27R and MW-28, low field pH in upgradient monitoring well MW-28 and in downgradient monitoring well MW-1, and boron in downgradient monitoring well MW-21). 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 of the background monitoring results) identified seven apparent SSIs for the Landfill, as shown on Table 1.

Table 1 SSIs – April 2021 Semiannual Detection Monitoring Event

| ANALYTE | WELL | LTL | UTL | SAMPLE DATE | VALUE | UNIT |
|----------|-------------|-----|-------|-------------|-------|------|
| Calcium | MW-27R (UG) | NA | 424 | 4/5/2021 | 431 | mg/L |
| Calcium | MW-28 (UG) | NA | 424 | 4/5/2021 | 583 | mg/L |
| Chloride | MW-27R (UG) | NA | 1,607 | 4/5/2021 | 1,890 | mg/L |
| Chloride | MW-28 (UG) | NA | 1,607 | 4/5/2021 | 2,470 | mg/L |
| Field pH | MW-28 (UG) | 5.1 | 7.3 | 4/5/2021 | 5.01 | SU |
| Field pH | MW-1 (DG) | 5.1 | 7.3 | 4/5/2021 | 3.7 | SU |
| Boron | MW-21 (DG) | NA | 0.282 | 4/5/2021 | 0.594 | mg/L |

Notes: UG = Upgradient
 DG = Downgradient
 mg/L = milligrams per Liter
 SU = Standard Units

Alternative sources for the potential Landfill SSIs are non-CCR sources located in the vicinity of the Landfill. The Station and surrounding vicinity are densely populated with historical and current oil and gas activities consisting primarily of natural gas production wells. Numerous active natural gas wells and their associated well pads and surface pits are located immediately surrounding and within the footprint of the Landfill. Figure 2 is a Mid-East Texas Groundwater Conservation District (METGCD) well map showing the locations of wells in the vicinity of the Landfill. The map is limited to Freestone and Leon counties, and

does not show wells in Limestone County immediately west of the Landfill. This figure demonstrates the extent to which non-CCR sources of constituents to groundwater pervade the vicinity of the landfill.

Surface well pits typically contain spent completion fluids or workover fluids. Completion or workover fluids are often brine-containing liquids that are used for well testing and are chemically compatible with the formation fluids; and the spent fluids contained in the pits would have come into contact with formation fluids. According to the United States Geological Survey (USGS) National Produced Waters Geochemical Database, water co-produced with hydrocarbons (referred to as “produced water” or “formation water”) from geologic formations underlying the Site has the following composition (USGS 2018):

- pH ranging from 4.67 standard units (SU) to 5.6 SU;
- Calcium ranging from 12,560 milligrams per liter (mg/L) to 33,520 mg/L;
- Chloride ranging from 56,980 mg/L to 96,200 mg/L
- Sulfate ranging from 480 mg/L to 1,790 mg/L; and
- Total dissolved solids (TDS) ranging from 98,330 mg/L to 152,970 mg/L.

Considering the composition of the formation water with which the completion or workover fluids came into contact and the typical brine composition of these fluids, potential releases of these fluids would be expected to affect groundwater quality within the immediate vicinity and downgradient of the natural gas well pads and surface pits. Even minor releases of these fluids could increase the concentrations of calcium, chloride, sulfate, and TDS and decrease the pH in the nearby Landfill upgradient and downgradient monitoring wells.

Although boron is not included as a characteristic of completion or workover fluids, boron (in the form of boric acid) is a component of hydraulic fracturing fluids which may have been used at one or more of the natural gas wells in the area. Boron concentrations have been increasing in MW-21, which is downgradient of Area 12 in the Landfill and of oil and gas activities that are present to the east of the Landfill. Boron is also persistently present at upgradient monitoring well MW-28, which is also influenced by oil and gas activities in the vicinity of the Landfill. Table 2 provides both the detection monitoring boron data and the additional new background boron data for MW-21 and upgradient monitoring well MW-28. This table demonstrates that the upgradient monitoring well has experienced similar boron concentrations.

Table 2 Upgradient and Downgradient Boron Concentrations

| DATE | EVENT | MW-28 (UG) | MW-21 (DG) |
|-------------|----------|------------|------------|
| May 2016 | Baseline | 0.23 | <0.07 |
| August 2016 | Baseline | 0.21 | <0.07 |

Table 2 Upgradient and Downgradient Boron Concentrations

| DATE | EVENT | MW-28 (UG) | MW-21 (DG) |
|---------------|------------------------|------------|------------|
| October 2016 | Baseline | 0.191 | <0.07 |
| November 2016 | Baseline | 0.2 | <0.07 |
| January 2017 | Baseline | 0.19 | <0.07 |
| February 2017 | Baseline | 0.26 | <0.07 |
| March 2017 | Baseline | 0.2 | <0.07 |
| August 2017 | Baseline | 0.176 | <0.07 |
| October 2017 | Detection Monitoring 1 | 0.197 | <0.07 |
| May 2018 | Detection Monitoring 2 | 0.241 | 0.0797 |
| October 2018 | Detection Monitoring 3 | 0.185 | 0.107 |
| April 2019 | Detection Monitoring 4 | 0.196 | 0.25 |
| July 2019 | New Baseline 1 | 0.326 | 0.333 |
| October 2019 | Detection Monitoring 5 | 0.207 | 0.35 |
| January 2020 | New Baseline 3 | 0.383 | 0.388 |
| April 2020 | Detection Monitoring 6 | 0.178 | 0.425 |
| July 2020 | New Baseline 5 | 0.175 | 0.427 |
| October 2020 | Detection Monitoring 7 | 0.162 | 0.493 |
| January 2021 | New Baseline 7 | 0.231 | 0.594 |
| April 2021 | Detection Monitoring 8 | 0.217 | 0.594 |

Although the boron concentrations appear to be increasing in MW-21, they still appear to be similar enough that the concentrations present in MW-21 could be within the range of an anthropogenic background. This will be further evaluated once the new upper tolerance limit (UTL) has been calculated for boron (as discussed below).

Additionally, the background groundwater data for this CCR unit were established using a background monitoring period of just 15 months. This is a short background period for statistical evaluation and comparisons. However, as discussed in the third detection monitoring ASD (September 2019) for the Landfill, NRG has concluded that the original background 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 detection monitoring sampling events were

performed over a two-year period for analysis for the Appendix III and IV CCR Rule constituents¹ between July 2019 and 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.



July 3, 2019

polygonLayer

Override 1

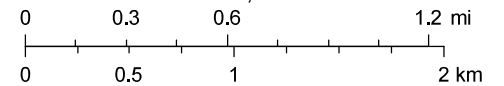
METGCD Wells

METGCD Wells

Yes

Counties

1:36,112



Half Associates, Inc.
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user

Section 3

Conclusions

The statistical evaluation identified seven apparent SSIs (calcium and chloride in upgradient monitoring wells MW-27R and MW-28, low field pH in upgradient monitoring well MW-27R and downgradient monitoring well MW-1, and boron in downgradient monitoring well MW-21). This ASD has identified the following lines of reasoning that support alternative sources for these two apparent SSIs:

- Five of the seven apparent SSIs (calcium and chloride in MW-27R and MW-28, and low pH in MW-28) were identified in an upgradient monitoring well. Therefore, these SSIs may be related to ongoing variations in background groundwater quality unrelated to the CCR unit.
- Numerous active natural gas wells and their associated well pads and surface pits are located immediately surrounding and within the footprint of the Landfill. Well pits associated with the natural gas wells contribute spent completion or workover fluids to groundwater that contain constituents that are also CCR Rule detection monitoring constituents.

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 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 Landfill have been shown to likely be responsible for both of the apparent SSIs observed. Based on this successful ASD, NRG will continue detection monitoring for the Landfill.

Section 4 Certification

I hereby certify that the alternative source demonstration presented within this document for the Limestone Electric Generating Station Landfill 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

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