

ANNUAL GROUNDWATER MONITORING REPORT FOR 2019

COLORADO SPRINGS UTILITIES' CLEAR SPRING RANCH Coal Combustion Residuals Landfill El Paso County, Colorado

January 31, 2020

Prepared For:

40 CFR Part 257.90(e)

and

Colorado Department of Public Health & Environment
Hazardous Materials & Waste Management Division
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

Attention:

Ms. Jill Parisi

Prepared By:

Colorado Springs Utilities
Environmental Services Division
Technical Services Section

Facility Environmental Activities Contact

Colorado Springs Utilities' Environmental Services
P.O. Box 1103, Mail Code 940, Colorado Springs, CO 80947-0940

TABLE OF CONTENTS

| | | |
|------------|---------------------------------------------------------------|----------|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Groundwater Classification and Management..... | 1 |
| 2.0 | GROUNDWATER FLOW ANALYSIS & GEOLOGIC PROFILE | 2 |
| 3.0 | GROUNDWATER QUALITY SAMPLING & ANALYSIS..... | 2 |
| 3.1 | Detection Monitoring | 3 |
| 3.2 | Assessment Monitoring | 3 |
| 3.3 | Quality Assurance / Quality Control..... | 3 |
| 3.4 | Monitoring Well Installation, Repair and Abandonment..... | 4 |
| 4.0 | STATISTICAL ANALYSIS RESULTS SUMMARY | 4 |
| 5.0 | GROUNDWATER PROTECTION STANDARDS | 4 |
| 6.0 | SUMMARY OF FINDINGS | 6 |
| 6.1 | Risk | 6 |
| 6.2 | Activities for 2020..... | 6 |

APPENDIX A Site Plan & Groundwater Elevation Contours

APPENDIX B Statistical Analysis Reports

APPENDIX C Analytical Results of Groundwater Samples

APPENDIX D Laboratory Analytical Reports

1.0 INTRODUCTION

This annual report summarizes the groundwater monitoring activities performed during 2019 in association with the Coal Combustion Residuals (CCR) Landfill at Colorado Springs Utilities' (Utilities') Clear Spring Ranch (CSR), located west-southwest of the intersection of Interstate 25 and Ray Nixon Road (Exit 125) in El Paso County, Colorado.

The CCR Landfill is regulated by the U.S. Environmental Protection Agency (EPA), the Colorado Department of Public Health & Environment (CDPHE), and El Paso County. The land-use is authorized via a Certificate of Designation (CD) obtained from El Paso County (CD #004-001).

The groundwater monitoring activities were performed for compliance with the EPA's Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments (40 CFR §257.50 through §257.107) (EPA CCR Rule) and the CDPHE's Regulations Pertaining to Solid Waste Sites & Facilities (6 CCR 1007-2, Part 1, Section 2.2 - Ground Water Monitoring).

The groundwater monitoring activities were conducted in general accordance with the Professional Engineer certified and CDPHE approved¹ Coal Combustion Residuals Landfill Groundwater Detection Monitoring Plan.²

This report fulfills the EPA's, CDPHE's, and El Paso County's annual reporting requirements.

1.1 Groundwater Classification and Management

From its inception in the late 1970's, the CCR Landfill has been designed and operated to protect the Fountain Creek Alluvial Aquifer, which is the closest aquifer to the site used for drinking water purposes. The CCR Landfill is located ~0.5 mile upgradient of a Retention Dam, described below. The Fountain Creek Alluvial Aquifer is located ~0.5 mile downgradient of the Retention Dam. There are no drinking water or agricultural wells within the CD Area, in which the CCR Landfill is located. There is no reasonable potential for future domestic or agricultural uses of groundwater within this area, as it is owned and controlled by Utilities.

Previously evaluated groundwater quality data indicates that groundwater upgradient of and underlying the CSR CD Area, in which the CCR Landfill is located, has a total dissolved solids (TDS) concentration exceeding 10,000 mg/l. The EPA, in their Guidelines for Groundwater Classification Under the EPA Groundwater Protection Strategy³ (Guidelines), classifies groundwater with TDS concentrations greater than or equal to 10,000 mg/l as Class III water. Class III is defined as "groundwater not a potential source of drinking water and/or limited beneficial use."

To protect the Fountain Creek Alluvial Aquifer, groundwater associated with the CCR Landfill is managed via a Retention Dam and pump back system. The Retention Dam was constructed downgradient of the CCR Landfill in 1978 to inhibit the off-site migration of surface water and groundwater. The dam has a

¹ E-Mail from Jill Parisi / CDPHE to Patti Zietlow / Colorado Springs Utilities Re: Clear Spring Ranch CCR Landfill Groundwater Detection Monitoring Plan. November 14, 2017.

² AECOM. Coal Combustion Residuals Landfill Groundwater Detection Monitoring Plan, Clear Spring Ranch, El Paso County, Colorado. Revision 0. October 2017.

³ U.S. EPA. Guidelines for Groundwater Classification Under the EPA Groundwater Protection Strategy. Office of Groundwater Protection. June 1988.

bentonite core and is keyed into the underlying Pierre Shale bedrock. To improve the dam's performance, in the 1990s, Utilities installed a bentonite barrier wall along the upgradient toe of the dam, and a french drain & pump back system downgradient of the dam. The french drain captures water seepage through the dam. The drain extends for ~525 feet along the southern portion of the dam. The french drain's collection trench is gravel filled and slopes towards a sump located at the northern end of the trench. An extraction well and pump remove water collected in the sump and pump it back to the upgradient Retention Dam pond. The dam is registered with and inspected by the Office of the State Engineer - Division of Water Resources - Dam Safety Branch (Dam I.D. #100401). A site plan is presented in Appendix A.

2.0 GROUNDWATER FLOW ANALYSIS & GEOLOGIC PROFILE

The CCR Landfill is located within a small, west-east trending topographic depression that is underlain with, and bounded to the north and south, by Pierre Shale. An investigation of CSR involving laboratory hydraulic conductivity tests on cores of un-weathered Pierre Shale indicated that the Pierre Shale is essentially impermeable⁴. The surficial geology consists of ~4 to ~50 feet of alluvial sediments⁵ deposited on top of the Pierre Shale.

A figure of the site showing the potentiometric groundwater surface, interpolated elevations of the underlying Pierre Shale bedrock, and the estimated boundary of the Fountain Creek Alluvial Aquifer is presented in Appendix A.

The groundwater surface was prepared using September and November 2019 groundwater elevation measurements. The bedrock elevations were obtained from historical on-site exploratory and monitoring well boring logs. To aid in the *visualization* of the aquifer boundary, wherever a groundwater contour intersects a bedrock contour at the same elevation, the groundwater contour was cut at that theoretical intersection. For example, where the groundwater contour with an elevation of 5,400 feet intersects the bedrock contour with the same elevation, the water level generally would not be higher on the ridge than 5,400 feet.

The groundwater surface data suggests that groundwater beneath the CCR Landfill generally flows in a southeasterly direction towards the Retention Dam.

3.0 GROUNDWATER QUALITY SAMPLING & ANALYSIS

As detailed in the CCR Landfill Groundwater Detection Monitoring Plan, the current groundwater quality monitoring well network for the CCR Landfill is comprised of five background wells (CC-1, FC-1, FC-2, FC-3A, & FC-3B), four downgradient wells (SC-10, SC-11, SC-12, & SC-13) along the eastern edge of the landfill, and one cross gradient well (SC-14) on the south side of the landfill. The locations of the monitoring wells are depicted on the figure presented in Appendix A.

Utilities' CCR Landfill migrated from Detection Monitoring to Assessment Monitoring in 2017. Assessment Monitoring is required by the EPA CCR Rule whenever a statistically significant increase over background levels has been detected for one or more of the Detection Monitoring constituents.⁶ Assessment Monitoring

⁴ Haley & Aldrich. Hannah Ranch Dam Seepage Analysis Preliminary Engineering Report. April 1994.

⁵ Layne Western. Ash Disposal Site, R.D. Nixon Power Plant. Carl Nuzman, Bruce Maxwell & Carl Larson. August 1977.

⁶ EPA CCR Rule §257.95(a) "Assessment monitoring is required whenever a statistically significant increase over background levels has been detected for one or more of the constituents listed in appendix III to this part."

must continue until concentrations of all Detection and Assessment Monitoring constituents are determined to be at or below background values using statistical procedures for two consecutive sampling events⁷.

Prior to 2019, the following constituents have been measured at concentrations estimated statistically as being significantly higher than background and have not been determined to be at or below background values using statistical procedures for two consecutive sampling events:

- ▼ Boron within monitoring wells SC-11 & SC-12.
- ▼ Fluoride within monitoring well SC-12, SC-13, & SC-14.

Therefore, both Detection Monitoring and Assessment Monitoring continued throughout 2019.

3.1 Detection Monitoring

During 2019, Utilities collected groundwater samples semi-annually from the monitoring wells listed in Section 3.0 above, and analyzed the samples using EPA and/or industry accepted methods for the Detection Monitoring constituents listed in Appendix III of the EPA CCR Rule (boron, calcium, chloride, fluoride, pH, sulfate, & total dissolved solids).

The laboratory analytical results and sampling dates are summarized in the table presented in Appendix C. Copies of the analytical reports and chain of custody documentation are presented in Appendix D. The analytical reports specify the analytical method used for each constituent.

3.2 Assessment Monitoring

During 2019, Utilities collected groundwater samples semi-annually from the monitoring wells listed in Section 3.0 above, and analyzed the samples using EPA and/or industry accepted methods for the Assessment Monitoring constituents listed in Appendix IV of the EPA CCR Rule (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226, radium 228, selenium, and thallium).

The laboratory analytical results and sampling dates are summarized in the table presented in Appendix C. Copies of the analytical reports and chain of custody documentation are presented in Appendix D. The analytical reports specify the analytical method used for each constituent.

3.3 Quality Assurance / Quality Control

Quality assurance and quality control (QA / QC) measures were implemented to ensure the reliability and validity of field and analytical data. Appendix D contains copies of the laboratory analytical reports along with QA / QC data. The QA / QC data includes duplicate samples (identified as Well ID_Dup), equipment / decontamination blanks (identified by Equip-Blk), method blanks (identified as LRB – Lab Reagent Blank) and laboratory control sample results. The sample duplicates show consistency in the lab work performed. No significant anomalies were reported within the laboratory's QA / QC reports.

Review of the groundwater monitoring program data, however, did indicate that the groundwater samples collected and analyzed for radium 226 & radium 228 during the September 2018 and May 2019 monitoring

⁷ EPA CCR Rule §257.95(e) "If the concentrations of all constituents listed in appendices III and IV to this part are shown to be at or below background values, using the statistical procedures in § 257.93(g), for two consecutive sampling events, the owner or operator may return to detection monitoring of the CCR unit."

events were inadvertently field-filtered. Within the 2018 Annual Report, the September 2018 data was incorrectly reported as being “total” concentrations (i.e., instead of “dissolved” concentrations).

The finding is considered de minimis, as the highest “total” concentration of Radium 226 & 228 Combined measured in groundwater collected from the downgradient monitoring wells listed in Section 3.0 during the preceding (February 2018) and subsequent (September 2019) semi-annual monitoring events was 4.1 pCi/l, which is below the Groundwater Protection Standard (GWPS) for Radium 226 & 228 Combined of 5 pCi/l (see Section 4.0).

The radium 226 & radium 228 concentrations reported for the September 2018 and May 2019 monitoring events were not used for statistical analysis purpose in association with this annual report; nor will be henceforth. Procedures have been reviewed and adjusted to minimize the potential for recurrence of this finding.

3.4 Monitoring Well Installation, Repair and Abandonment

No CCR Landfill groundwater monitoring wells were installed or decommissioned during 2019.

4.0 STATISTICAL ANALYSIS RESULTS SUMMARY

The methods used to statistically analyze the Detection and Assessment Monitoring groundwater data, the rationale for the analytical methods, and the results of the statistical analysis are presented in Appendix B.

The 2019 groundwater sampling results suggest that the following constituents continued to be present at concentrations estimated statistically as being significantly higher than background:

- ▼ Boron within monitoring wells SC-11 and SC-12.
- ▼ Fluoride within monitoring well SC-12, SC-13, & SC-14.

5.0 GROUNDWATER PROTECTION STANDARDS

Groundwater Protection Standards (GWPS) were generated in accordance with §257.95(d)(2)⁸ of the EPA CCR Rule. The Rule states in §257.95(h) that the GWPS shall be:

- (1) *For constituents for which a maximum contaminant level (MCL) has been established under §141.62 and §141.66 of this title, the MCL for that constituent;*
- (2) *For the following constituents:*
 - (i) *Cobalt 6 micrograms per liter (ug/l);*
 - (ii) *Lead 15 ug/l;*
 - (iii) *Lithium 40 ug/l;*
 - (iv) *Molybdenum 100 ug/l.*
- (3) *For constituents for which the background level is higher than the levels identified under paragraphs (h)(1) and (h)(2) of this section, the background concentration.*

⁸ 40 CFR § 257.95(d)(2) states that facilities must “establish groundwater protection standards for all constituents detected pursuant to paragraph (b) or (d) of this section.”

To create the GWPS, an upper tolerance limit (UTL) was calculated for each of the EPA CCR Rule Appendix IV constituents to establish their background concentration. Each UTL was then compared to the corresponding MCL or EPA CCR Rule standard. If a UTL was greater than the MCL or standard, then the UTL was used as the GWPS.

GWPS were calculated after each of the 2019 semi-annual sampling events and are provided in Appendix B. The GWPS resulting from the second semi-annual sampling event are presented in yellow highlight in the table below:

GROUNDWATER PROTECTION STANDARDS

| Appendix IV Constituent | MCL (mg/l) | EPA CCR Rule Standard (mg/l) | Background Higher than MCL or Standard * | Upper Tolerance Limit |
|---------------------------|------------|------------------------------|------------------------------------------|-----------------------|
| Antimony | 0.006 | - | Yes | 0.008 |
| Arsenic | 0.01 | - | Yes | 0.01171 |
| Barium | 2 | - | Yes | 2.833 |
| Beryllium | 0.004 | - | No | 0.0002 |
| Cadmium | 0.005 | - | No | 0.005 |
| Chromium | 0.1 | - | No | 0.01 |
| Cobalt | - | 0.006 | Yes | 0.0139 |
| Fluoride | 4 | - | No | 0.985 |
| Lead | - | 0.015 | No | 0.009 |
| Lithium | - | 0.040 | Yes | 1.16 |
| Mercury | 0.002 | - | No | 0.000024 |
| Molybdenum | - | 0.100 | No | 0.0201 |
| Selenium | 0.05 | - | Yes | 0.1985 |
| Thallium | 0.002 | - | Yes | 0.0063 |
| Radium 226 & 228 Combined | 5 pCi/l | - | No | 4.825 |

* Upper tolerance limit calculated for the constituents and compared to the MCL or the EPA CCR Rule standard. If the UTL was greater than the MCL or standard, then the UTL was used as the GWPS.

Once GWPS have been calculated, §257.95(g)(3)⁹ requires that the owner / operator determine if any of the Appendix IV constituents are present at a statistically significant level exceeding the GWPS. To determine such, a confidence interval was calculated for each constituent and compared to the GWPS. The confidence interval calculations for each of the 2019 semi-annual sampling events are provided in Appendix B and indicate that no GWPS were exceeded at a statistically significant level.

⁹ 40 CFR § 257.95(g)(3) Within 90 days of finding that any of the constituents listed in appendix IV to this part have been detected at a statistically significant level exceeding the groundwater protection standards, the owner or operator must either..."

6.0 SUMMARY OF FINDINGS

Comparison of the groundwater flow to those historically measured shows de minimis differences in the groundwater flow regime beneath the site. Groundwater associated with the CCR Landfill continues to flow to the southeast towards the Retention Dam, which inhibits its migration off-site.

Statistical analysis suggests that boron concentrations at downgradient groundwater monitoring wells SC-11 and SC-12 and fluoride concentrations at downgradient ground monitoring wells SC-12, SC-13, and SC-14 exhibit a statistically significant increase over background concentrations; therefore, the CCR Landfill shall continue with Assessment Monitoring¹⁰.

No EPA CCR Rule Appendix IV constituents were measured at a statistically significant level exceeding the GWPS; therefore, initiating an assessment of corrective measures is not required at this time.

The overall CCR Landfill groundwater monitoring program was reviewed, and in consideration of the complex geology and other constraints, Utilities believes that the current Professional Engineer certified and CDPHE approved¹¹ Coal Combustion Residuals Landfill Groundwater Detection Monitoring Plan.¹² continues to be appropriate for the site and compliant with the EPA CCR Rule.

6.1 Risk

Utilities believes that the risk posed by the CCR Landfill to human health and the environment via the groundwater exposure pathway continues to be low for the following reasons:

- ▼ Groundwater underlying the CSR CD Area (which includes the CCR Landfill) is not used for domestic or agricultural purposes. There are no drinking water or agricultural wells within the CD Area and is no reasonable potential for future domestic or agricultural uses of groundwater within this area, as it is owned and controlled by Utilities. The high TDS of groundwater upgradient of and beneath the CD Area also discourages its use for domestic or agricultural purposes.
- ▼ The CSR Retention Dam inhibits the off-site migration of stormwater and groundwater associated with the CCR Landfill; therefore, limiting the potential for exposure. The Retention Dam largely hydrologically disconnects the CCR Landfill associated groundwater from the downgradient Fountain Creek Alluvial Aquifer (i.e., the closest drinking water source).
- ▼ No EPA CCR Rule Appendix IV constituents were measured at a statistically significant level exceeding the GWPS.

6.2 Activities for 2020

For 2020, Utilities plans to continue with Detection Monitoring and Assessment Monitoring.

¹⁰ EPA CCR's Rule §257.95 (f) "If the concentrations of any constituent in appendices III and IV to this part are above background values, but all concentrations are below the groundwater protection standard established under paragraph (h) of this section, using the statistical procedures in § 257.93(g), the owner or operator must continue assessment monitoring in accordance with this section".

¹¹ E-Mail from Jill Parisi / CDPHE to Patti Zietlow / Colorado Springs Utilities Re: Clear Spring Ranch CCR Landfill Groundwater Detection Monitoring Plan. November 14, 2017.

¹² AECOM. Coal Combustion Residuals Landfill Groundwater Detection Monitoring Plan, Clear Spring Ranch, El Paso County, Colorado. Revision 0. October 2017.



Report Distribution List:

- ▼ Jill Parisi / Colorado Department of Public Health & Environment
- ▼ Mark Gebhart / El Paso County Planning Department
- ▼ Ian Gavin / Colorado Springs Utilities - Nixon Power Plant
- ▼ Utilities CCR Landfill Website
- ▼ EVS File: 550-688-7

APPENDIX A

Site Plan & Groundwater Elevation Contours

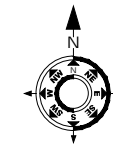


Colorado Springs Utilities

It's how we're all connected

Environmental Services
121 South Tejon Street, Fourth Floor
Colorado Springs, Colorado 80903

Orientation:



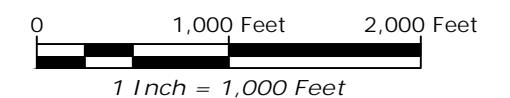
Legend:

- Coal Combustion Residuals (CCR) Landfill
- Retention Dam
- Boundary - Clear Spring Ranch Property
- Boundary - Certificate of Designation
- Boundary - Fountain Creek Alluvial Aquifer
- Boundary - Ground Water Zone Interpolation
- Boundary - Surficial Geologic Mapping **
 - Kp - Pierre Shale Bedrock
 - Qp - Piney Creek Alluvium
 - Qs - Slocum Alluvium
 - Qv - Verdos Alluvium
- Contour - Ground Water Surface Elevation * (dashed portions are estimated)
- Contour - Bedrock Surface ***
- Contour - Elevation - Feet
- Ground Water Monitoring Well Location
- Ground Water Monitoring Well ID

Notes:

- * Ground Water Elevation Measurements Collected From Wells CC-1, FC-1, FC-2, FC-3A, & SC-10 - SC-14 During September 2019 and SCBD-2, SCBD-4, SCBD-5, SCBD-6, SCBD-8, HRMW-01 - HRMW-08 During November 2019.
- ** USGS Geologic Map of the Pueblo Quadrangle by Scott, Taylor, Epis, & Wobus, 1976.
- *** Interpolation Based Upon On-Site Exploratory Borehole Measurements.

Scale:



SITE PLAN & GROUND WATER ELEVATION CONTOURS 2019

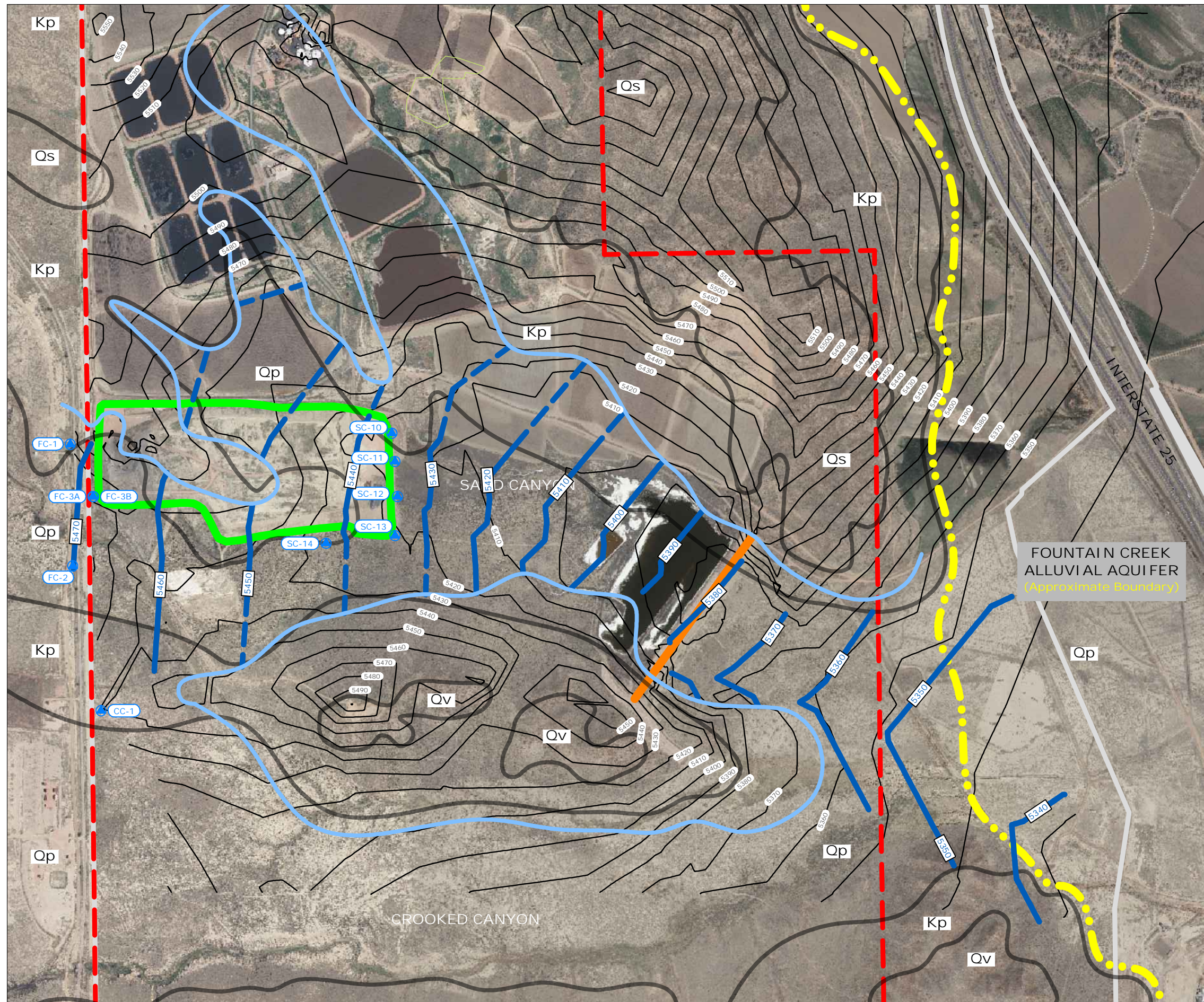
Clear Spring Ranch
Coal Combustion Residuals Landfill
El Paso County

Project No: 550-504-7

Prepared By: Environmental Services

Date: January 30, 2020

Figure
Number
1

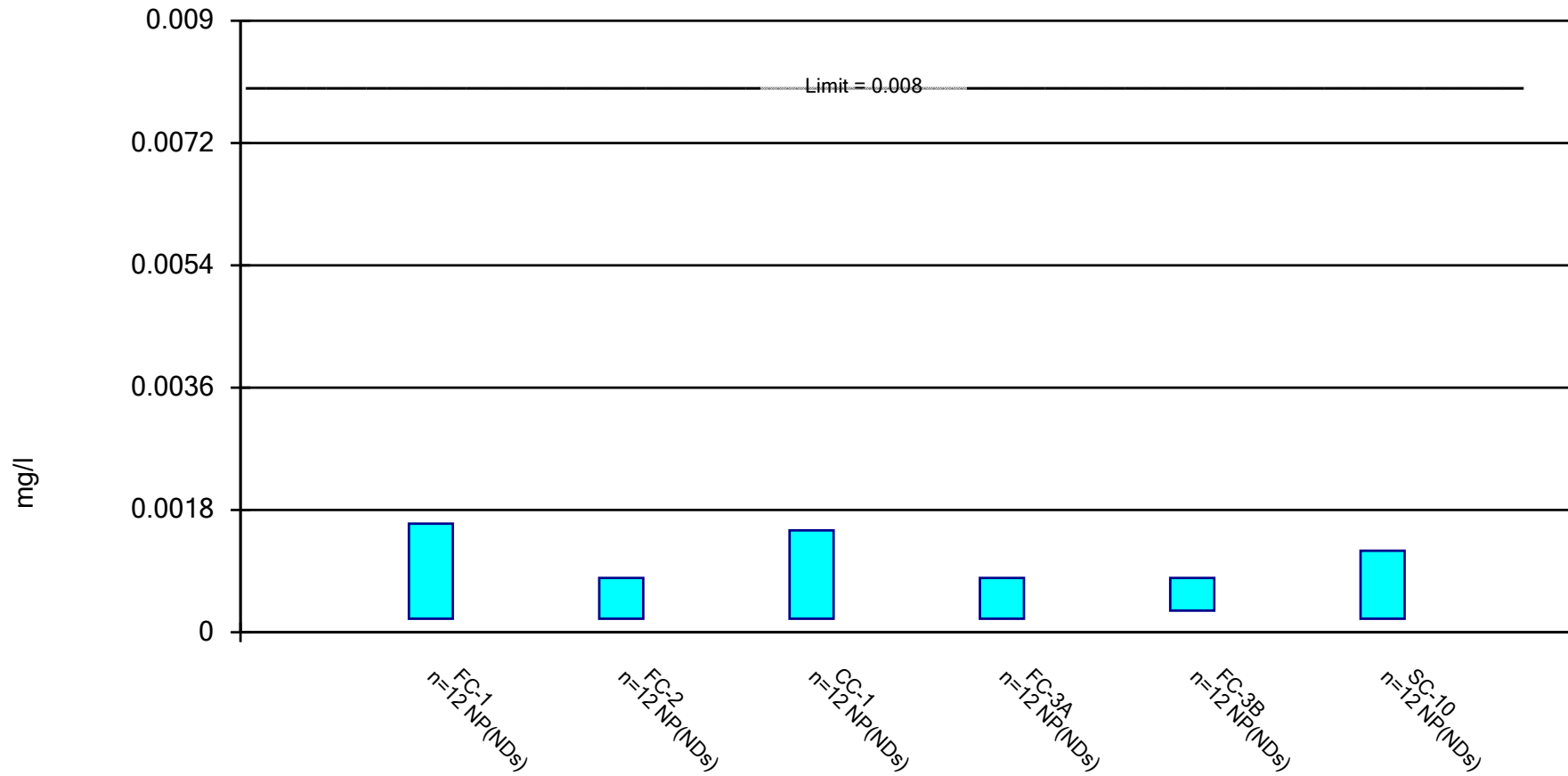


APPENDIX B

Statistical Analysis Reports

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

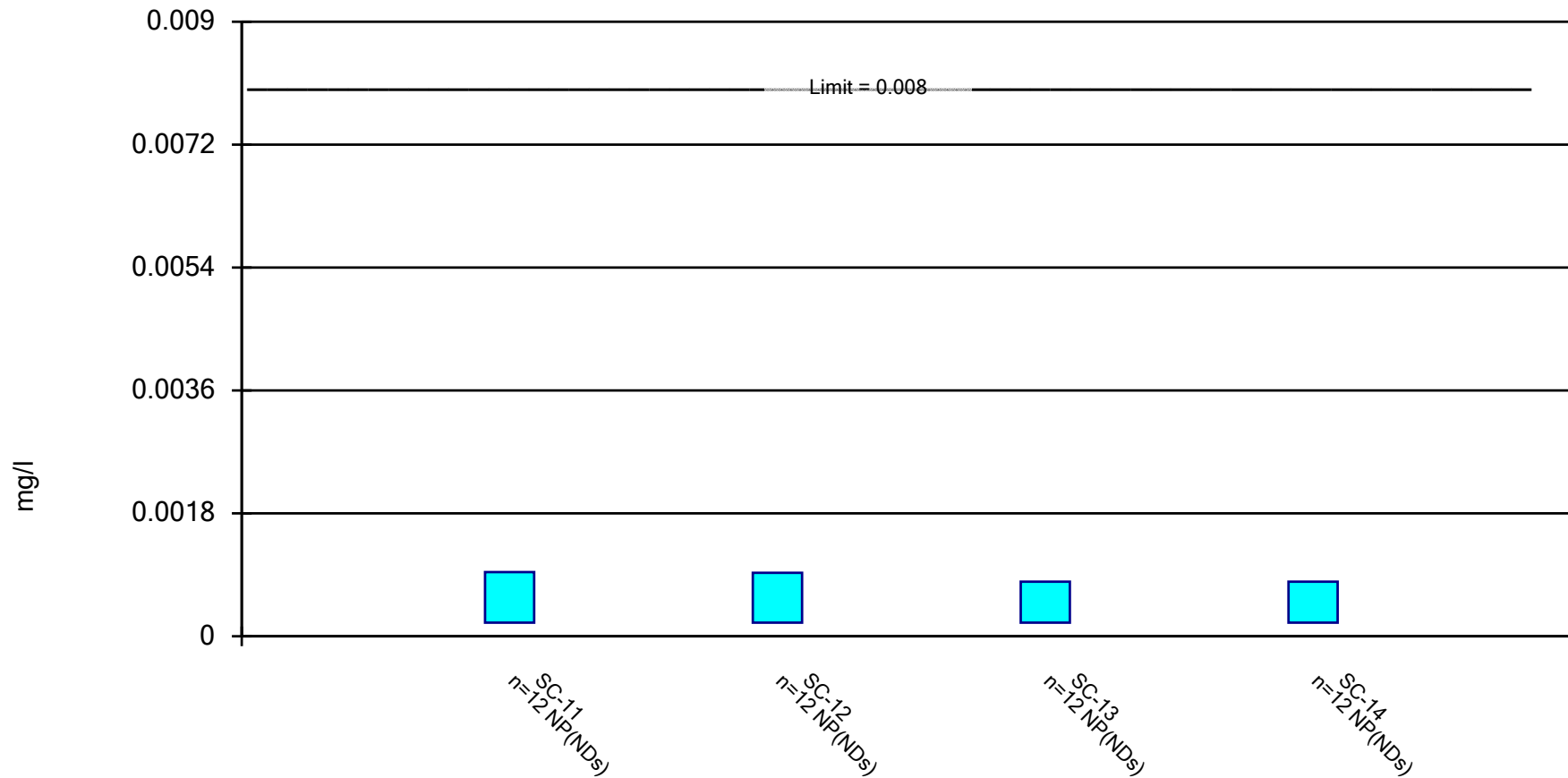
Confidence Interval

Constituent: Antimony, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 (D) | | | <0.0002 |
| 6/23/2016 | | | | 0.00021 | | |
| 6/27/2016 | | | | | 0.00065 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | <0.0002 | <0.0002 | 0.00061 | |
| 8/3/2016 | | | | | | <0.0002 (D) |
| 9/19/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | |
| 9/20/2016 | | | | | | <0.0002 (D1) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | 0.0004 (D) | 0.00026 (D) | 0.00032 (D) | |
| 10/13/2016 | | | | | | 0.00025 (D) |
| 11/15/2016 | 0.0016 (D) | <0.0002 (D1) | 0.0015 (D) | 0.0015 (D) | 0.0015 (D) | |
| 11/16/2016 | | | | | | 0.0012 (D) |
| 1/18/2017 | <0.0005 (D1P) | <0.0005 (D1P) | <0.0005 (D1) | 0.00055 (D) | <0.0005 (D1) | |
| 1/19/2017 | | | | | | <0.0005 (D1) |
| 2/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | 0.00066 (D) | |
| 2/15/2017 | | | | | | 0.00054 (D) |
| 2/28/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 3/1/2017 | | | | | | <0.0005 (D1) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | <0.0005 (D1) |
| 2/14/2018 | <0.008 | <0.0008 | <0.008 | <0.0008 (D) | <0.0008 | |
| 2/15/2018 | | | | | | <0.008 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/26/2018 | | | | | | <0.0005 |
| 5/14/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 5/15/2019 | | | | | | <0.0005 (D1D) |
| Mean | 0.001117 | 0.0004 | 0.001125 | 0.0005183 | 0.0006033 | 0.001091 |
| Std. Dev. | 0.0022 | 0.0001954 | 0.002192 | 0.000358 | 0.0003226 | 0.002193 |
| Upper Lim. | 0.0016 | 0.0008 | 0.0015 | 0.0008 | 0.0008 | 0.0012 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.00032 | 0.0002 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Confidence Interval

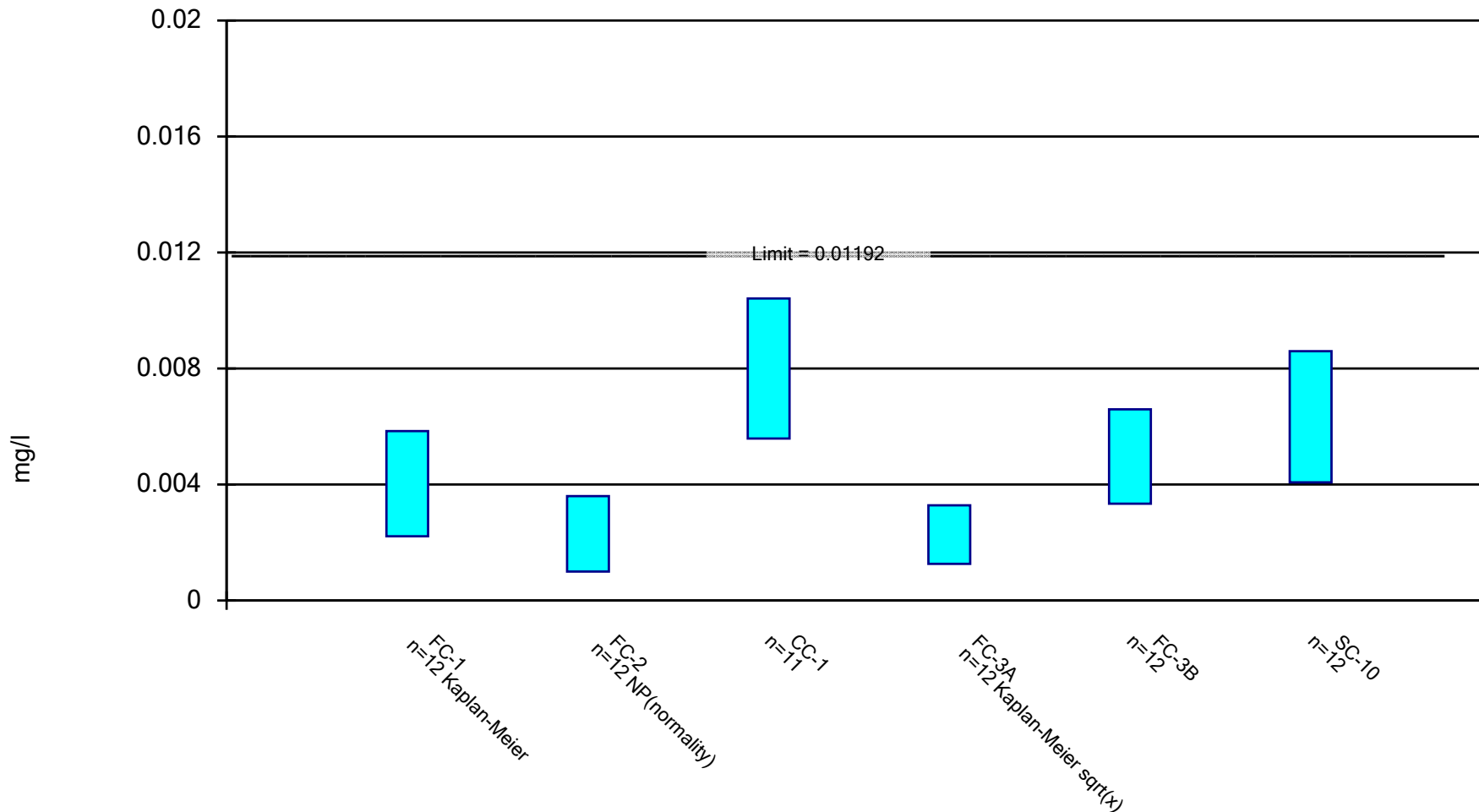
Constituent: Antimony, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 | 0.00021 |
| 8/3/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/20/2016 | <0.0002 (D1) | <0.0002 (D1) | 0.0002 (D) | 0.00022 (D) |
| 10/13/2016 | 0.0002 (D) | 0.00023 (D) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.00094 (D) | 0.00093 (D) | 0.00059 (D) | <0.0002 (D1) |
| 1/19/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 3/1/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0071 (DT) | <0.0005 (D1) |
| 2/15/2018 | <0.008 | <0.008 | <0.0008 | <0.0008 |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.001062 | 0.001063 | 0.0009825 | 0.0004025 |
| Std. Dev. | 0.002195 | 0.002194 | 0.001936 | 0.0001927 |
| Upper Lim. | 0.00094 | 0.00093 | 0.0008 | 0.0008 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

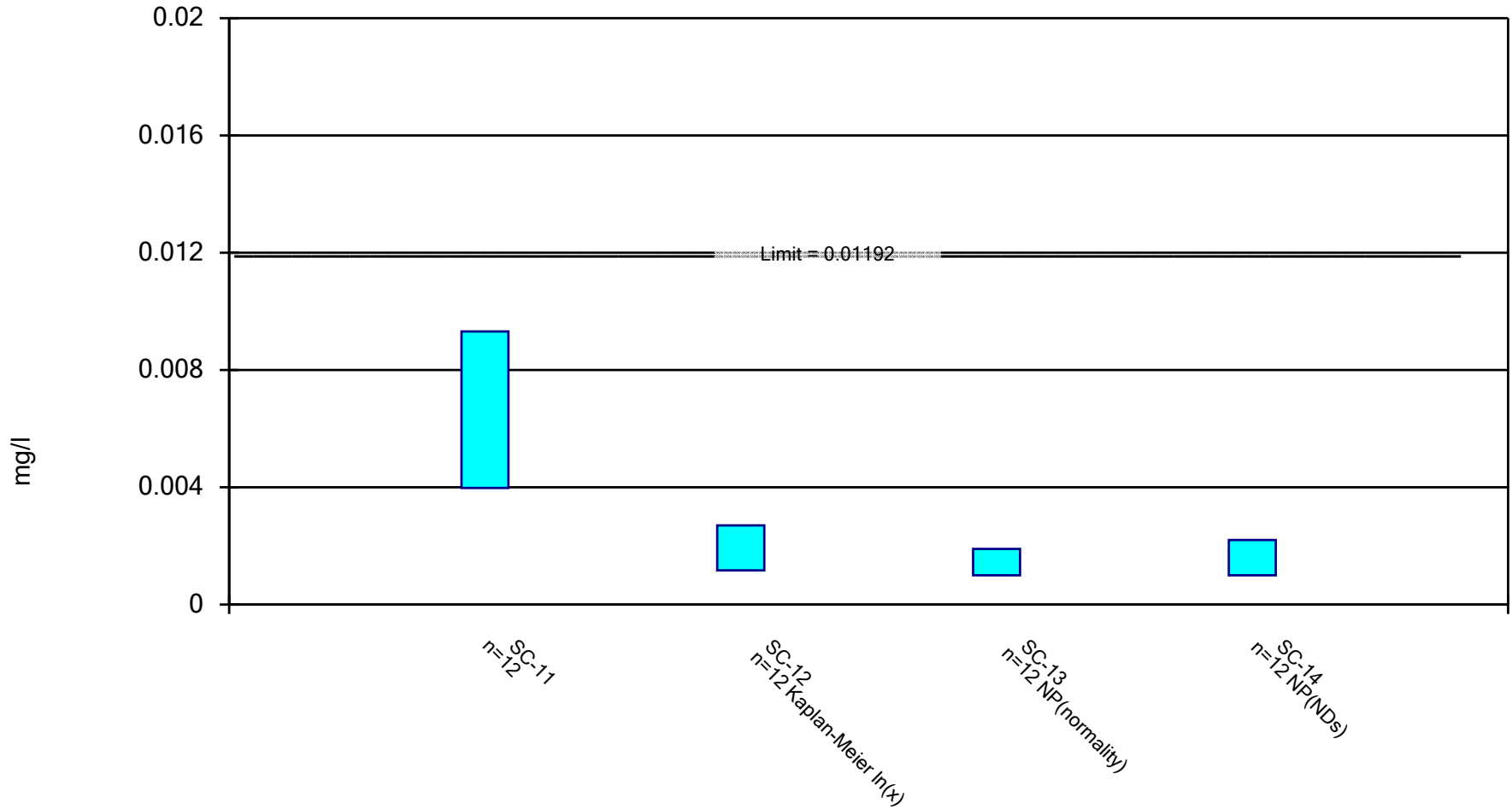
Constituent: Arsenic, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|-------------|-------------|--------------|------------|-------------|
| 6/22/2016 | 0.0042 | 0.0025 | 0.0109 (D) | | | 0.0083 |
| 6/23/2016 | | | | 0.0031 | | |
| 6/27/2016 | | | | | 0.0026 | |
| 8/2/2016 | 0.0025 (D) | 0.0016 | 0.0105 | 0.0021 | 0.0031 | |
| 8/3/2016 | | | | | | 0.00625 (D) |
| 9/19/2016 | 0.0094 (D) | 0.0036 (D) | 0.0089 (D) | 0.0029 (D) | 0.0051 (D) | |
| 9/20/2016 | | | | | | 0.0073 (D) |
| 10/12/2016 | 0.0023 (D) | <0.001 (D1) | 0.0071 (D) | 0.001325 (D) | 0.0056 (D) | |
| 10/13/2016 | | | | | | 0.0051 (D) |
| 11/15/2016 | 0.0036 (D) | <0.001 (D1) | 0.0054 (D) | 0.0018 (D) | 0.007 (D) | |
| 11/16/2016 | | | | | | 0.003 (D) |
| 1/18/2017 | 0.0061 (D) | 0.0011 (D) | 0.00255 (D) | <0.001 (D1) | 0.0057 (D) | |
| 1/19/2017 | | | | | | 0.0039 (D) |
| 2/14/2017 | <0.001 (D1) | <0.001 (D1) | 0.00495 (D) | <0.001 (D1) | 0.004 (D) | |
| 2/15/2017 | | | | | | 0.0054 (D) |
| 2/28/2017 | 0.00625 (D) | 0.0076 (D) | 0.011 (D) | 0.0069 (D) | 0.0081 (D) | |
| 3/1/2017 | | | | | | 0.0126 (D) |
| 11/13/2017 | 0.0041 (D) | 0.0025 (D) | 0.008 (D) | 0.0022 (D) | 0.0064 (D) | |
| 11/14/2017 | | | | | | 0.0095 (D) |
| 2/14/2018 | <0.002 | <0.001 | | 0.00115 (D) | 0.0026 | |
| 2/15/2018 | | | | | | 0.0022 |
| 9/25/2018 | 0.005 (D) | 0.0014 | 0.0115 | 0.003 | 0.0074 | |
| 9/26/2018 | | | | | | 0.0068 |
| 5/14/2019 | 0.0029 | 0.0013 (D) | 0.0072 (D) | 0.0017 (D) | 0.002 (D) | |
| 5/15/2019 | | | | | | 0.0057 (D) |
| Mean | 0.004113 | 0.002133 | 0.008 | 0.002348 | 0.004967 | 0.006338 |
| Std. Dev. | 0.002317 | 0.001908 | 0.002897 | 0.001622 | 0.002074 | 0.00288 |
| Upper Lim. | 0.005844 | 0.0036 | 0.01041 | 0.003282 | 0.006594 | 0.008597 |
| Lower Lim. | 0.002215 | 0.001 | 0.005586 | 0.001267 | 0.003339 | 0.004078 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

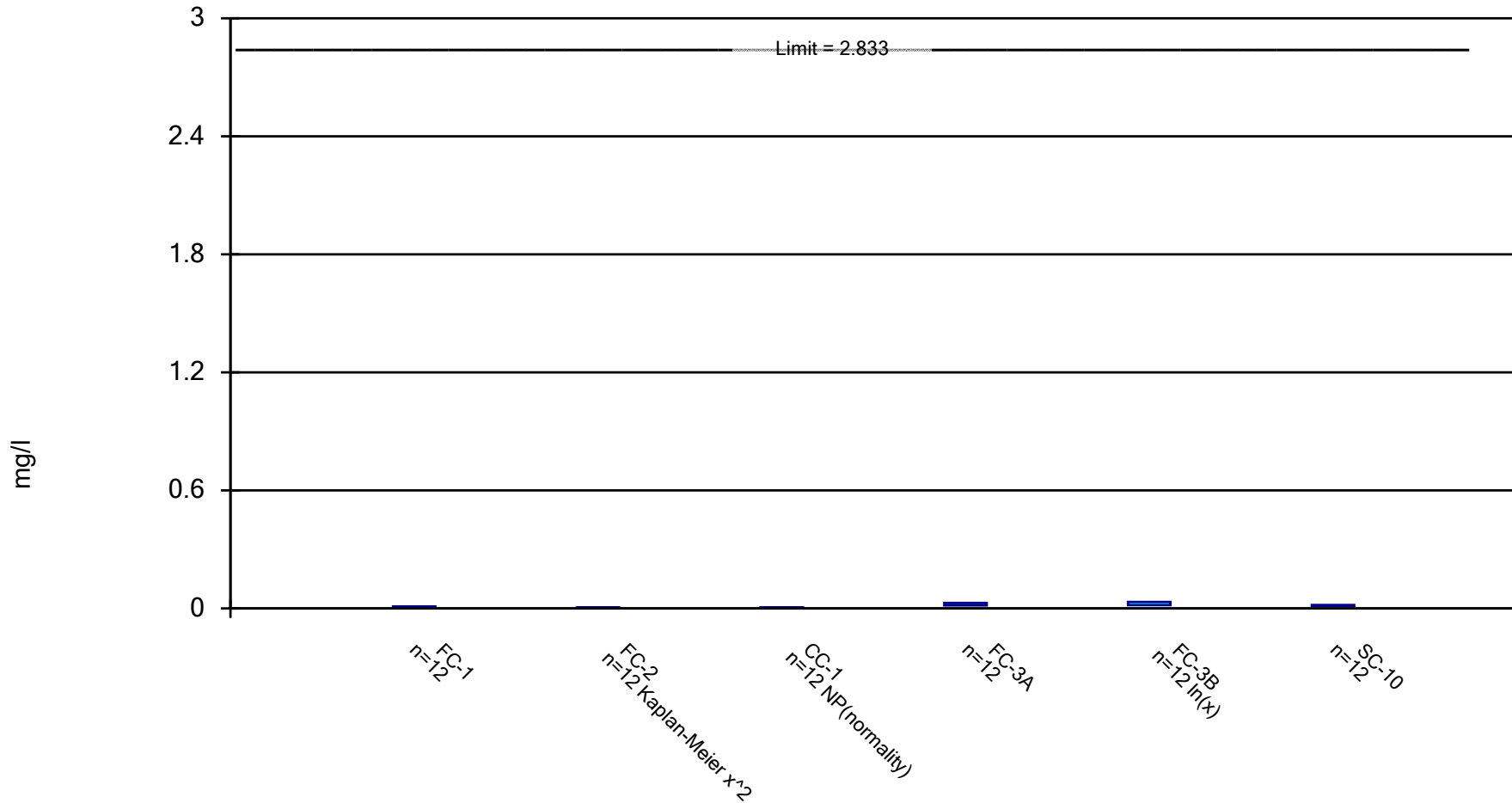
Constituent: Arsenic, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|-------------|-------------|-------------|
| 6/22/2016 | 0.0093 | 0.0017 | 0.0019 | 0.0022 |
| 8/3/2016 | 0.0095 | 0.0014 | <0.001 | <0.001 |
| 9/20/2016 | 0.00825 (D) | 0.0026 (D) | 0.0013 (D) | <0.001 (D1) |
| 10/13/2016 | 0.0062 (D) | 0.00285 (D) | 0.0015 (D) | <0.001 (D1) |
| 11/16/2016 | <0.001 (D1) | 0.0016 (D) | <0.001 (D) | <0.001 (D1) |
| 1/19/2017 | 0.0033 (D) | <0.001 (D1) | <0.001 (D1) | <0.001 (D1) |
| 2/15/2017 | 0.0046 (D) | <0.001 (D1) | <0.001 (D1) | <0.001 (D) |
| 3/1/2017 | 0.0111 (D) | 0.0067 (D) | 0.0057 (D) | 0.003 (D) |
| 11/14/2017 | 0.0089 (D) | 0.0027 (D) | 0.0018 (D) | 0.0011 (D) |
| 2/15/2018 | 0.0021 | 0.0011 | <0.001 | <0.001 |
| 9/26/2018 | 0.0104 | 0.0013 | <0.001 (D) | <0.001 |
| 5/15/2019 | 0.0051 (D) | 0.00135 (D) | 0.001 (D) | <0.001 (D) |
| Mean | 0.006646 | 0.002108 | 0.0016 | 0.001275 |
| Std. Dev. | 0.003402 | 0.001591 | 0.001333 | 0.0006426 |
| Upper Lim. | 0.009315 | 0.002703 | 0.0019 | 0.0022 |
| Lower Lim. | 0.003977 | 0.001167 | 0.001 | 0.001 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

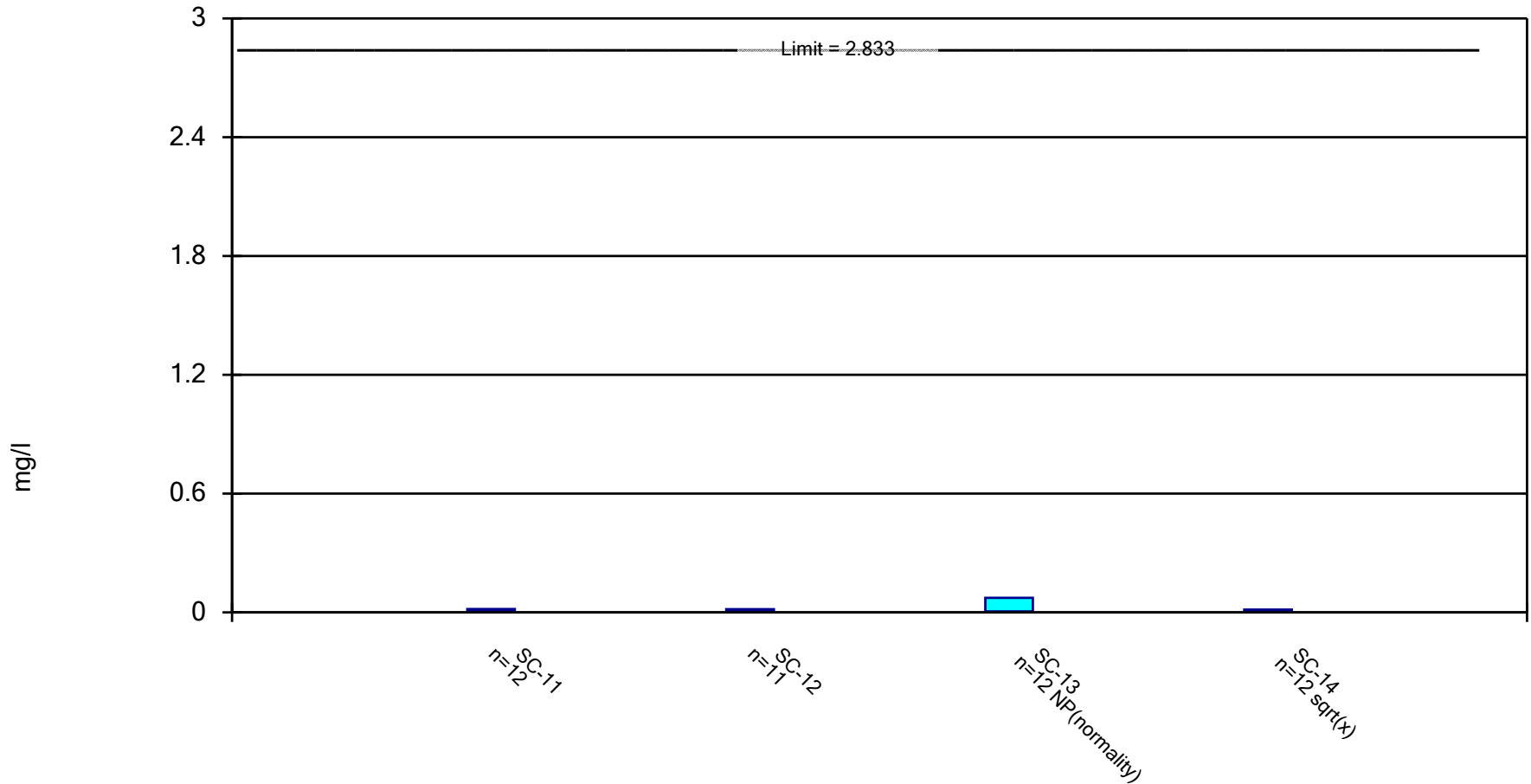
Constituent: Barium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|-------------|--------------|-------------|------------|------------|
| 6/22/2016 | 0.00954 | 0.00503 | 2.83285 (D) | | | 0.0184 |
| 6/23/2016 | | | | 0.034 | | |
| 6/27/2016 | | | | | 0.0336 | |
| 8/2/2016 | 0.008725 (D) | <0.005 | 0.00512 | 0.0202 | 0.0253 | |
| 8/3/2016 | | | | | | 0.0138 (D) |
| 9/19/2016 | 0.00928 | 0.00525 (D) | 0.00542 | 0.0218 | 0.0183 | |
| 9/20/2016 | | | | | | 0.013 |
| 10/12/2016 | 0.00905 | 0.00536 | 0.00593 | 0.03735 (D) | 0.0184 | |
| 10/13/2016 | | | | | | 0.0141 |
| 11/15/2016 | 0.0102 | 0.00516 | 0.00608 | 0.01735 (D) | 0.0652 | |
| 11/16/2016 | | | | | | 0.0178 |
| 1/18/2017 | 0.00929 | 0.00539 | 0.005675 (D) | 0.0164 | 0.0244 | |
| 1/19/2017 | | | | | | 0.0216 |
| 2/14/2017 | 0.01 | 0.00566 | 0.006005 (D) | 0.0167 | 0.023 | |
| 2/15/2017 | | | | | | 0.0145 (D) |
| 2/28/2017 | 0.009 (D) | 0.0054 | <0.005 | 0.0148 | 0.0208 | |
| 3/1/2017 | | | | | | 0.0105 |
| 11/13/2017 | 0.0082 (D) | 0.00435 (D) | 0.004 (D) | 0.0259 (D) | 0.0154 (D) | |
| 11/14/2017 | | | | | | 0.014 (D) |
| 2/14/2018 | 0.0105 | <0.01 | <0.01 | 0.01205 (D) | 0.0196 | |
| 2/15/2018 | | | | | | 0.0124 |
| 9/25/2018 | 0.00665 (D) | 0.004 | 0.0039 | 0.021 | 0.037 | |
| 9/26/2018 | | | | | | 0.0165 |
| 5/14/2019 | 0.0073 | 0.0043 (D) | 0.0044 (D) | 0.0265 (D) | 0.0146 (D) | |
| 5/15/2019 | | | | | | 0.0168 (D) |
| Mean | 0.008978 | 0.004783 | 0.2406 | 0.022 | 0.0263 | 0.01528 |
| Std. Dev. | 0.001139 | 0.0008824 | 0.8164 | 0.007695 | 0.01399 | 0.003045 |
| Upper Lim. | 0.009872 | 0.00536 | 0.00608 | 0.02804 | 0.03333 | 0.01767 |
| Lower Lim. | 0.008084 | 0.004506 | 0.0039 | 0.01597 | 0.0172 | 0.01289 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

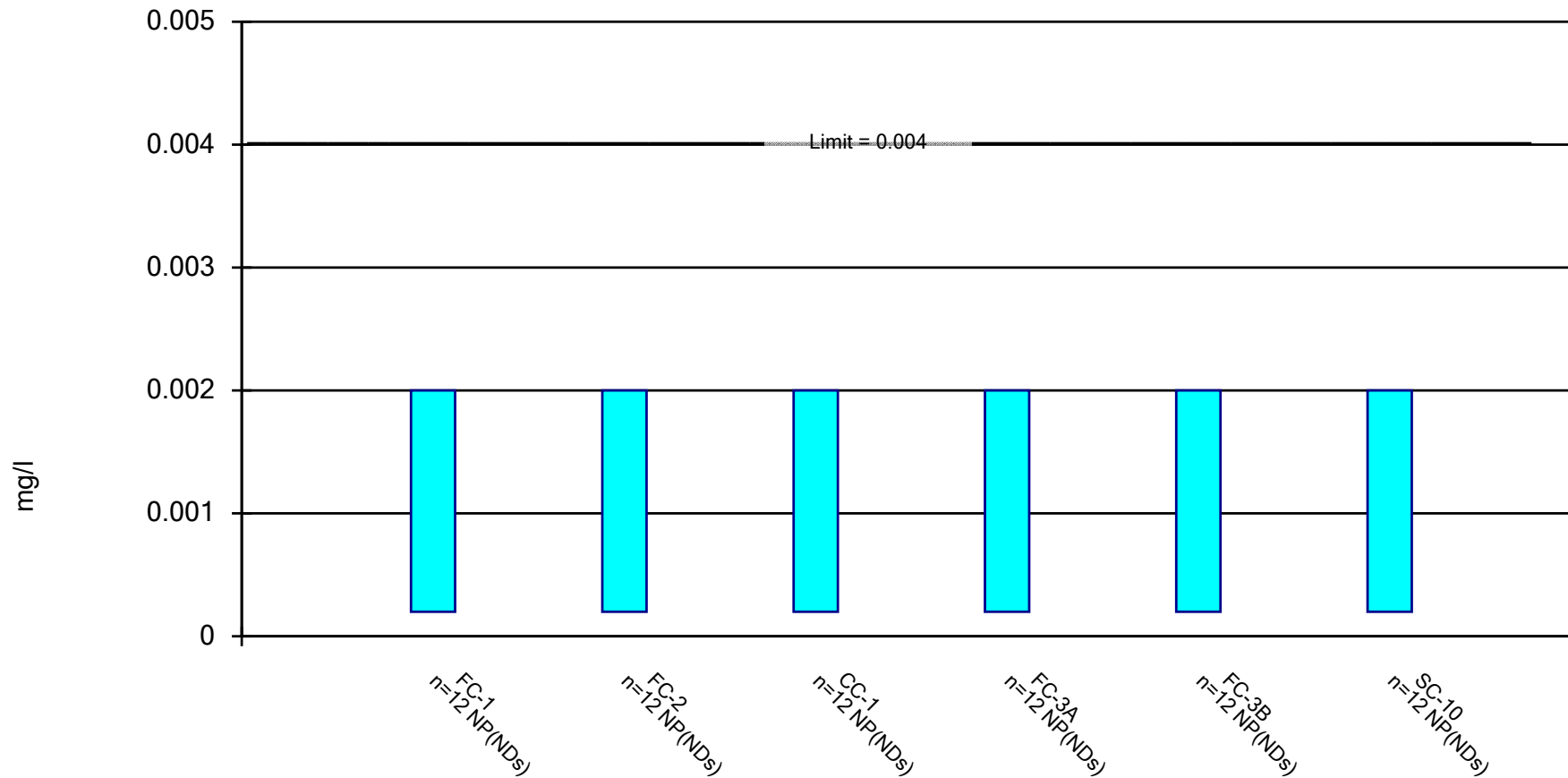
Constituent: Barium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|--------------|-------------|--------------|------------|
| 6/22/2016 | 0.017 | 0.0112 | 0.00979 | 0.024 |
| 8/3/2016 | 0.0165 | 0.0133 | 0.00703 | 0.0131 |
| 9/20/2016 | 0.009275 (D) | | 0.0736 | 0.0109 |
| 10/13/2016 | 0.0225 | 0.01415 (D) | 0.00797 | 0.0163 |
| 11/16/2016 | 0.016 | 0.0178 | 4.629645 (D) | 0.0136 |
| 1/19/2017 | 0.0117 | 0.0108 | 0.0075 | 0.00905 |
| 2/15/2017 | 0.0156 | 0.0127 | 0.00742 | 0.00766 |
| 3/1/2017 | 0.00732 | 0.00781 (D) | 0.00603 | 0.0063 |
| 11/14/2017 | 0.01395 (D) | 0.0063 (D) | 0.006 (D) | 0.0052 (D) |
| 2/15/2018 | 0.0089 | 0.0079 | <0.01 | <0.01 |
| 9/26/2018 | 0.0099 | 0.0245 | 0.00575 (D) | 0.0057 |
| 5/15/2019 | 0.0086 (D) | 0.00755 (D) | 0.0046 (D) | 0.005 (D) |
| Mean | 0.0131 | 0.01218 | 0.3975 | 0.01015 |
| Std. Dev. | 0.004559 | 0.005339 | 1.333 | 0.005803 |
| Upper Lim. | 0.01668 | 0.01663 | 0.0736 | 0.01403 |
| Lower Lim. | 0.009526 | 0.007734 | 0.005 | 0.005836 |

Non-Parametric Confidence Interval

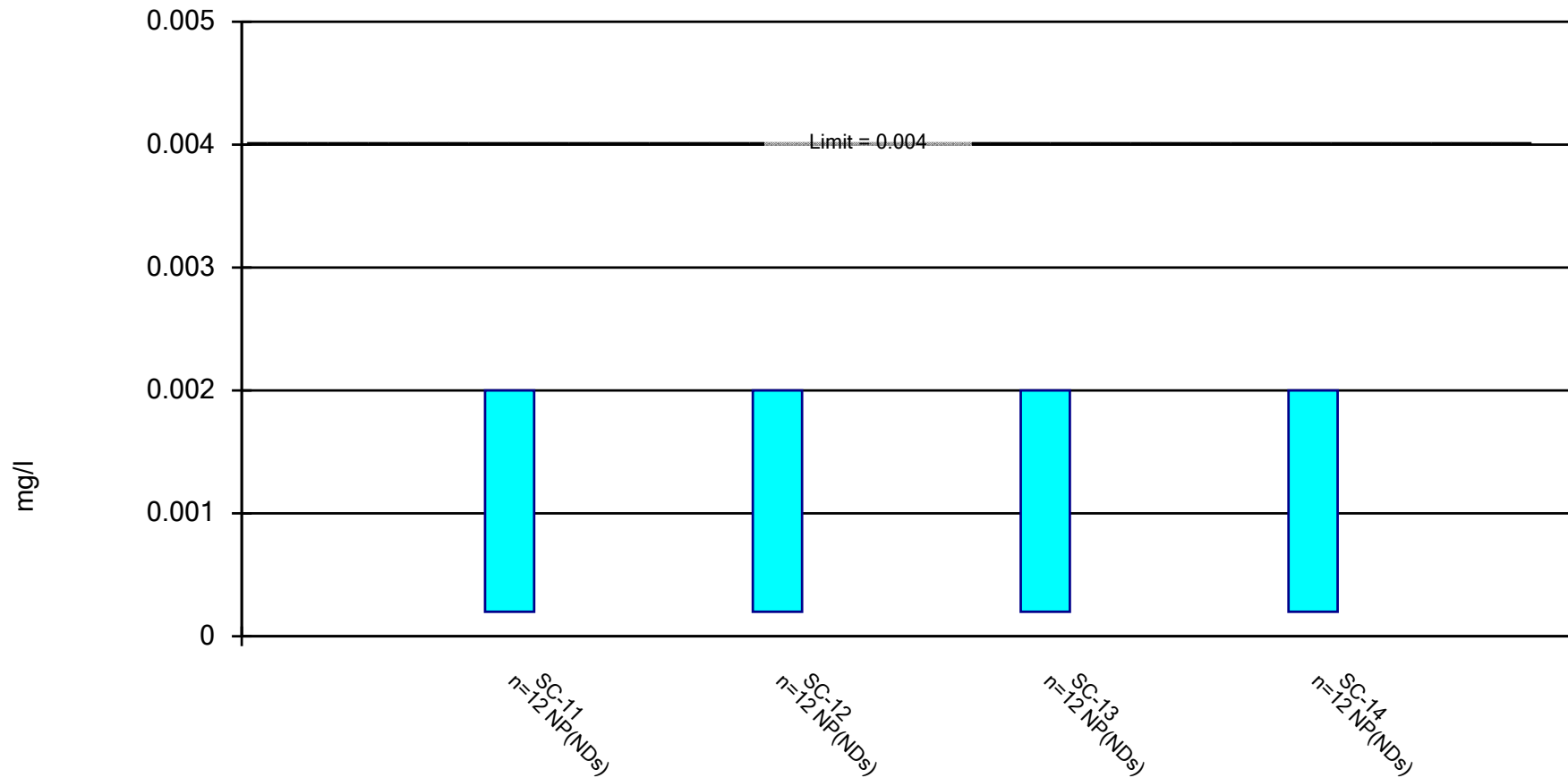
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, Total Analysis Run 9/10/2019 11:05 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

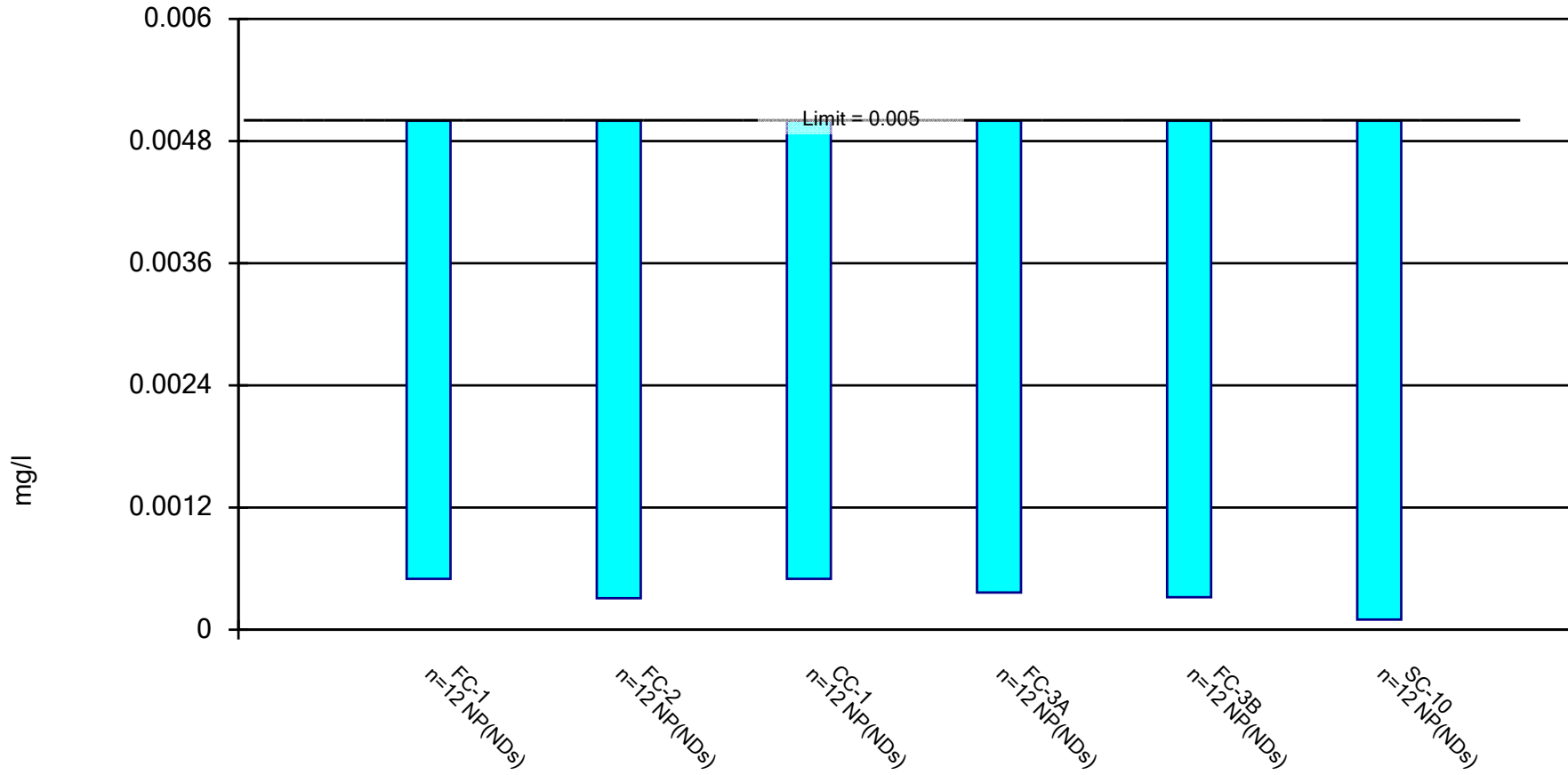
Constituent: Beryllium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/3/2016 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/20/2016 | <0.002 (D) | <0.002 | <0.002 | <0.002 |
| 10/13/2016 | <0.002 | <0.002 (D) | <0.002 | <0.002 |
| 11/16/2016 | <0.002 | <0.002 | <0.002 (D) | <0.002 |
| 1/19/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/15/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/1/2017 | <0.002 | <0.002 (D) | <0.002 | <0.002 |
| 11/14/2017 | <0.0002 (D1) | <0.0002 (D1) | 0.00021 (D) | <0.0002 (D1) |
| 2/15/2018 | <0.002 | <0.002 | <0.001 (T) | <0.001 (T) |
| 9/26/2018 | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 |
| 5/15/2019 | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) |
| Mean | 0.00155 | 0.00155 | 0.001468 | 0.001467 |
| Std. Dev. | 0.0008141 | 0.0008141 | 0.0008136 | 0.000815 |
| Upper Lim. | 0.002 | 0.002 | 0.002 | 0.002 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

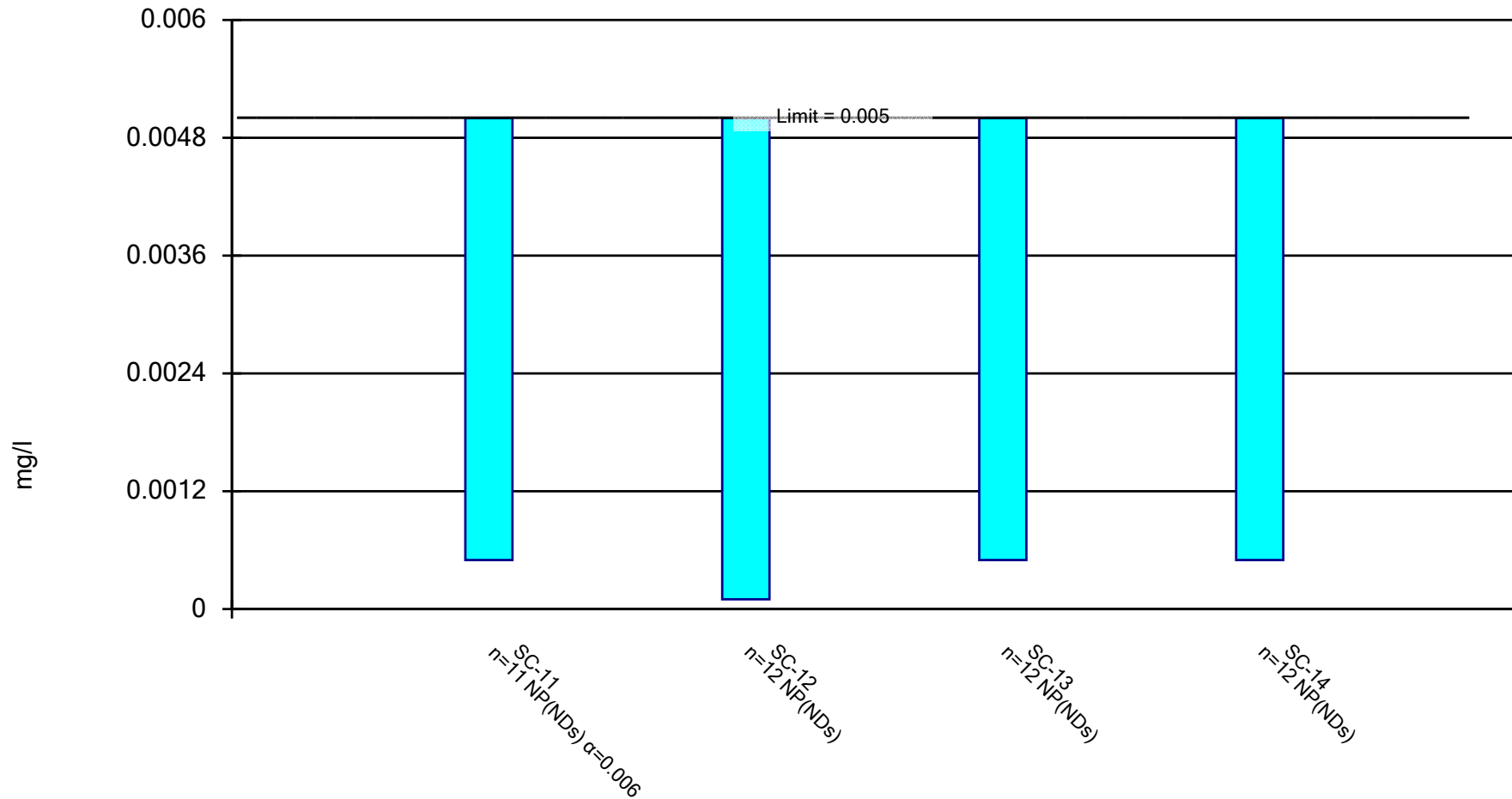
Confidence Interval

Constituent: Cadmium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | | | <0.005 |
| 6/23/2016 | | | | <0.005 | | |
| 6/27/2016 | | | | | <0.005 | |
| 8/2/2016 | <0.005 (D) | <0.005 | <0.005 | <0.005 | <0.005 | |
| 8/3/2016 | | | | | | <0.005 (D) |
| 9/19/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| 9/20/2016 | | | | | | <0.005 |
| 10/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | |
| 10/13/2016 | | | | | | <0.005 |
| 11/15/2016 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | |
| 11/16/2016 | | | | | | <0.005 |
| 1/18/2017 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | |
| 1/19/2017 | | | | | | <0.005 |
| 2/14/2017 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | |
| 2/15/2017 | | | | | | <0.005 (D) |
| 2/28/2017 | <0.005 (D) | <0.005 | <0.005 | <0.005 | <0.005 | |
| 3/1/2017 | | | | | | <0.005 |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | <0.0005 (D1) |
| 2/14/2018 | <0.001 | 0.00031 | <0.001 | 0.000365 (D) | 0.00032 | |
| 2/15/2018 | | | | | | <0.0001 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/26/2018 | | | | | | <0.0005 |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 5/15/2019 | | | | | | <0.0005 (D1D) |
| Mean | 0.003542 | 0.003484 | 0.003542 | 0.003489 | 0.003485 | 0.003467 |
| Std. Dev. | 0.002158 | 0.00224 | 0.002158 | 0.002233 | 0.002238 | 0.002267 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0005 | 0.00031 | 0.0005 | 0.000365 | 0.00032 | 0.0001 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

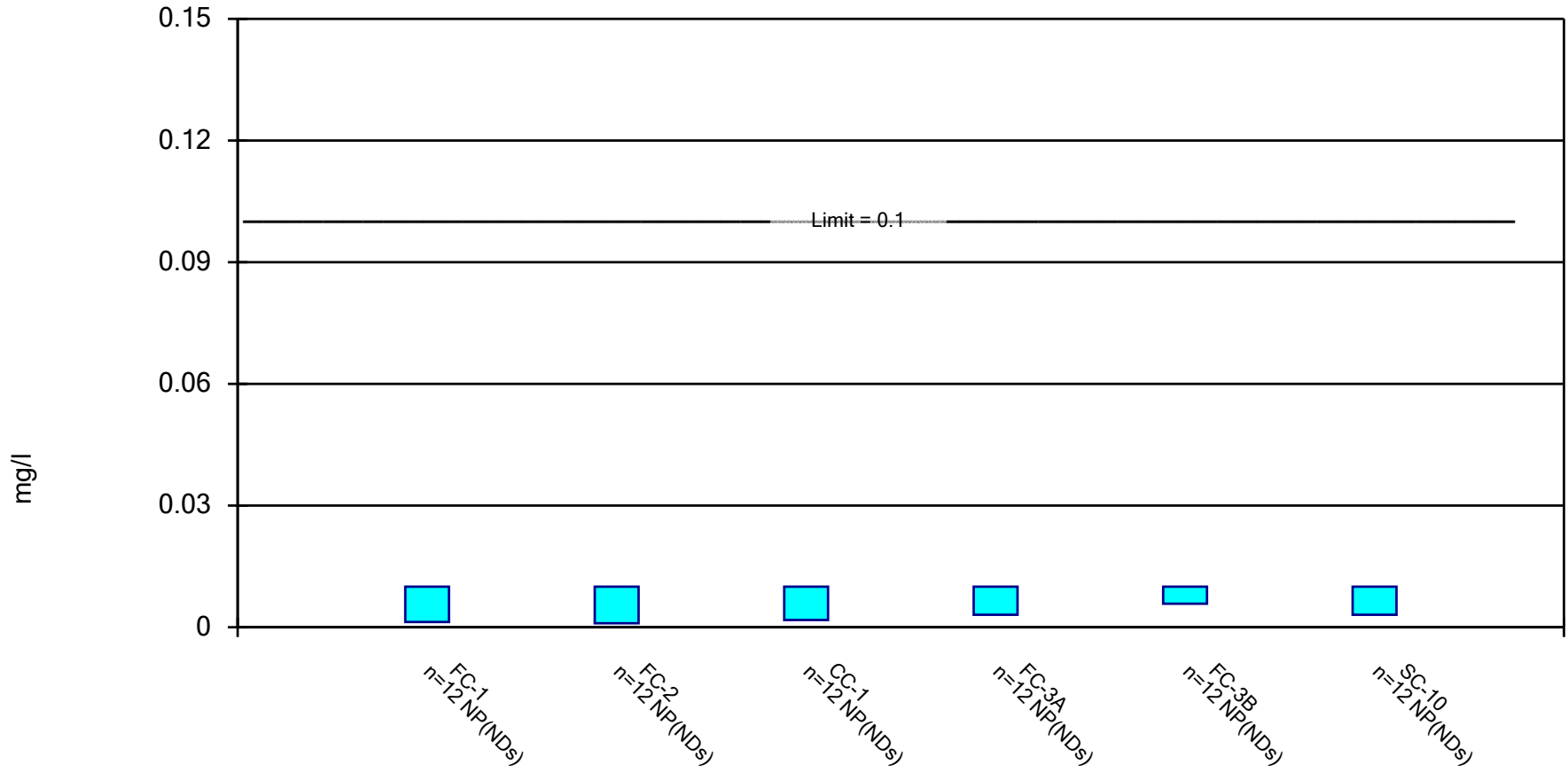
Constituent: Cadmium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/3/2016 | | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 10/13/2016 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/16/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 |
| 1/19/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/15/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/1/2017 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.0001 | <0.0001 | <0.001 | <0.001 |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.003327 | 0.003467 | 0.003542 | 0.003542 |
| Std. Dev. | 0.002323 | 0.002267 | 0.002158 | 0.002158 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0005 | 0.0001 | 0.0005 | 0.0005 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

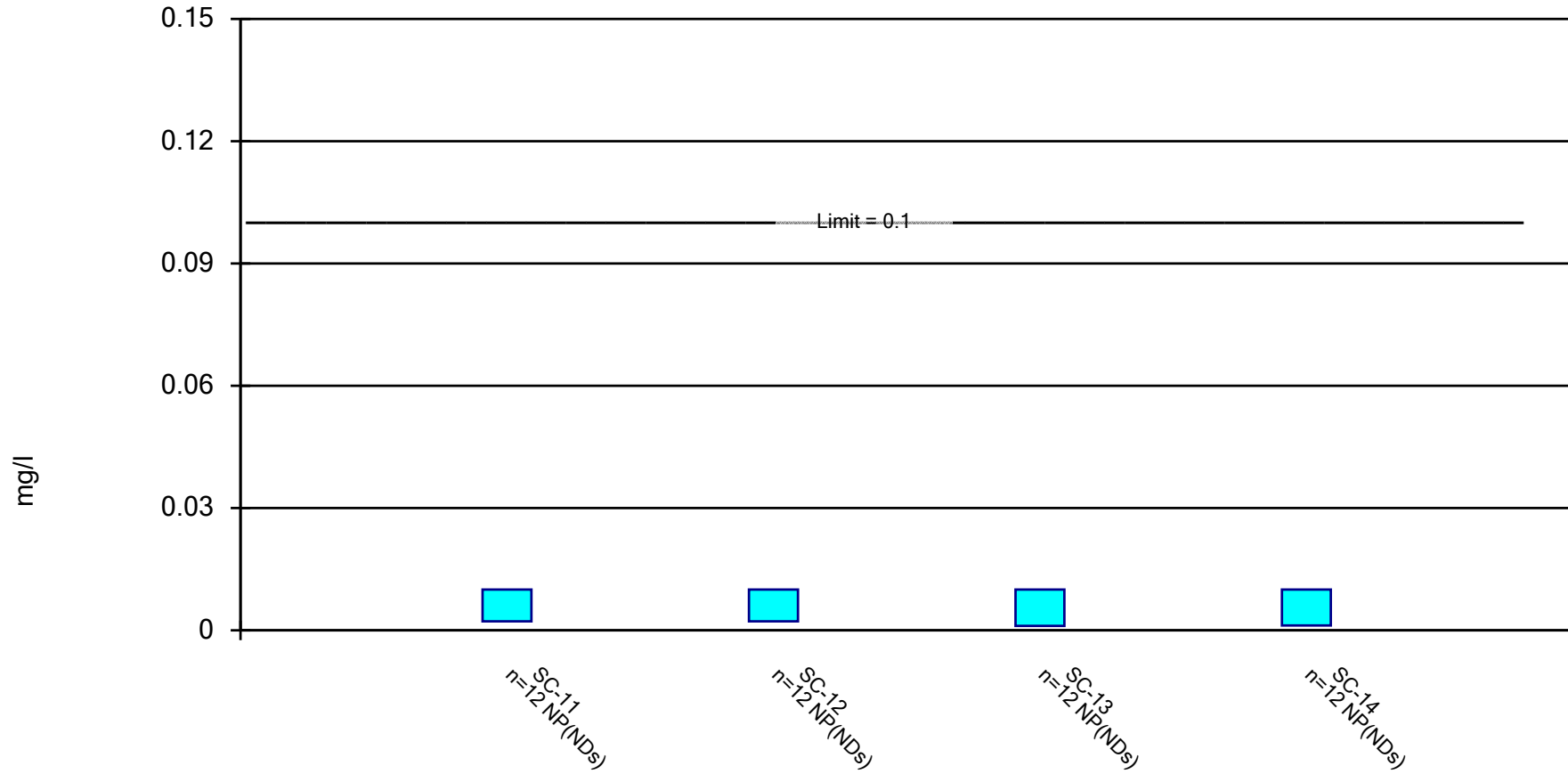
Confidence Interval

Constituent: Chromium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-----------|------------|------------|------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 | <0.01 (D) | | | <0.01 |
| 6/23/2016 | | | | <0.01 | | |
| 6/27/2016 | | | | | <0.01 | |
| 8/2/2016 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | |
| 8/3/2016 | | | | | | <0.01 (D) |
| 9/19/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 | <0.01 | |
| 9/20/2016 | | | | | | <0.01 |
| 10/12/2016 | <0.01 | <0.01 | <0.01 | <0.01 (D) | <0.01 | |
| 10/13/2016 | | | | | | <0.01 |
| 11/15/2016 | <0.01 | <0.01 | <0.01 | <0.01 (D) | <0.01 | |
| 11/16/2016 | | | | | | <0.01 |
| 1/18/2017 | <0.01 | <0.01 | <0.01 (D) | <0.01 | <0.01 | |
| 1/19/2017 | | | | | | <0.01 |
| 2/14/2017 | <0.01 | <0.01 | <0.01 (D) | <0.01 | <0.01 | |
| 2/15/2017 | | | | | | <0.01 (D) |
| 2/28/2017 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | |
| 3/1/2017 | | | | | | <0.01 |
| 11/13/2017 | 0.006 (D) | 0.0051 (D) | 0.0064 (D) | 0.0062 (D) | 0.0086 (D) | |
| 11/14/2017 | | | | | | 0.0061 (D) |
| 2/14/2018 | <0.004 | <0.004 | <0.004 | <0.004 (D) | 0.0058 | |
| 2/15/2018 | | | | | | <0.004 |
| 9/25/2018 | 0.001 (D) | 0.001 | 0.0017 | 0.0025 | 0.0061 | |
| 9/26/2018 | | | | | | 0.0019 |
| 5/14/2019 | 0.0013 | <0.001 (D) | 0.0018 (D) | 0.0031 (D) | 0.0049 (D) | |
| 5/15/2019 | | | | | | 0.0031 (D) |
| Mean | 0.007692 | 0.007592 | 0.007825 | 0.007983 | 0.008783 | 0.007925 |
| Std. Dev. | 0.003628 | 0.003722 | 0.003416 | 0.003097 | 0.001978 | 0.003202 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Lower Lim. | 0.0013 | 0.001 | 0.0018 | 0.0031 | 0.0058 | 0.0031 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

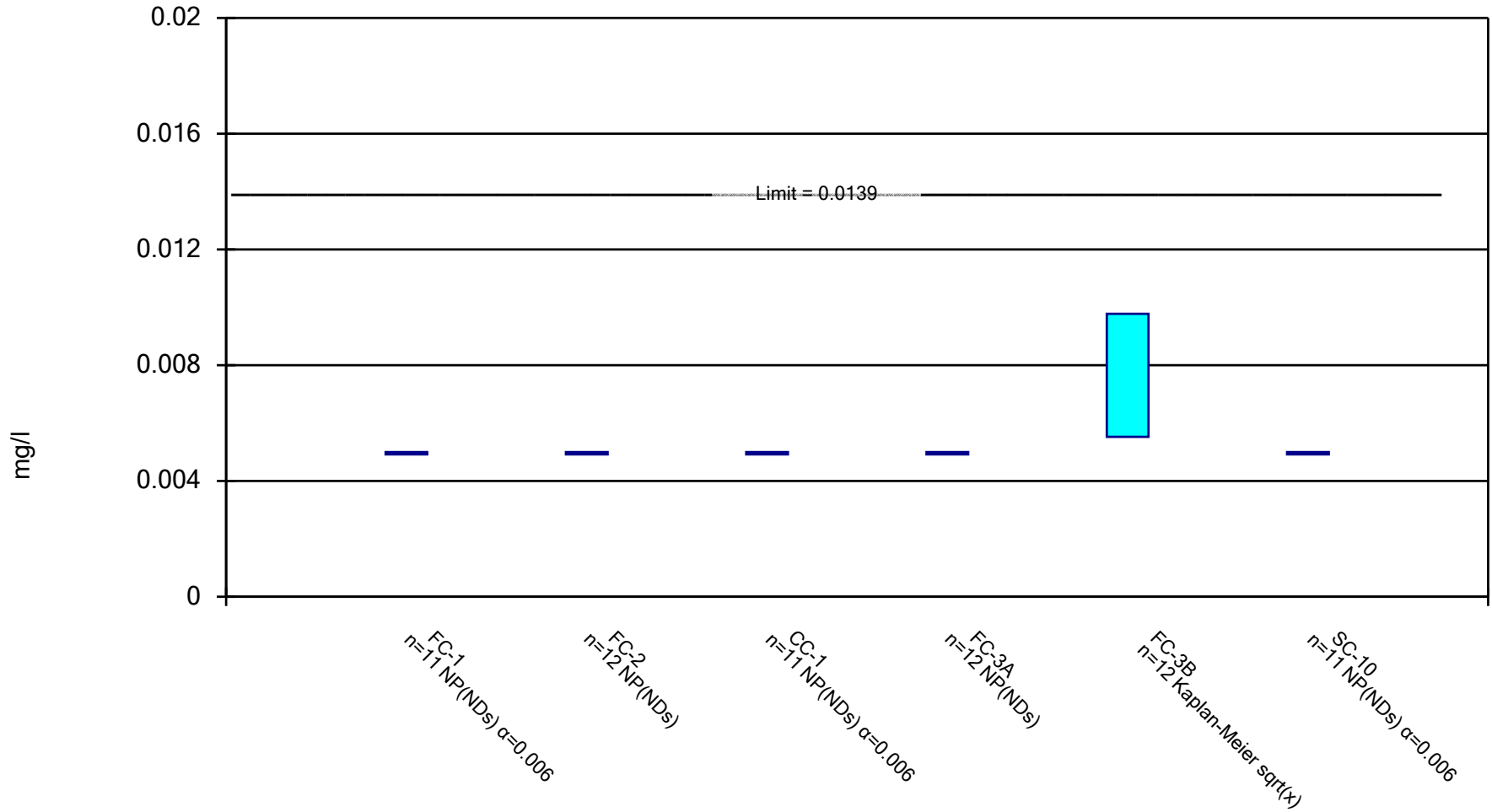
Constituent: Chromium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|------------|-------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 | <0.01 | <0.01 |
| 8/3/2016 | <0.01 | <0.01 | <0.01 | <0.01 |
| 9/20/2016 | <0.01 (D) | <0.01 | <0.01 | <0.01 |
| 10/13/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 |
| 11/16/2016 | <0.01 | <0.01 | <0.01 (D) | <0.01 |
| 1/19/2017 | <0.01 | <0.01 | <0.01 | <0.01 |
| 2/15/2017 | <0.01 | <0.01 | <0.01 | <0.01 |
| 3/1/2017 | <0.01 | <0.01 (D) | <0.01 | <0.01 |
| 11/14/2017 | 0.0075 (D) | 0.0069 (D) | 0.0029 (D) | 0.0066 (D) |
| 2/15/2018 | <0.004 | <0.004 | <0.004 | <0.004 |
| 9/26/2018 | 0.0012 | 0.0022 | <0.001 (D) | <0.001 |
| 5/15/2019 | 0.0022 (D) | 0.00185 (D) | 0.0011 (D) | 0.0012 (D) |
| Mean | 0.007908 | 0.007912 | 0.007417 | 0.007733 |
| Std. Dev. | 0.003412 | 0.003311 | 0.003891 | 0.003622 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 |
| Lower Lim. | 0.0022 | 0.0022 | 0.0011 | 0.0012 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

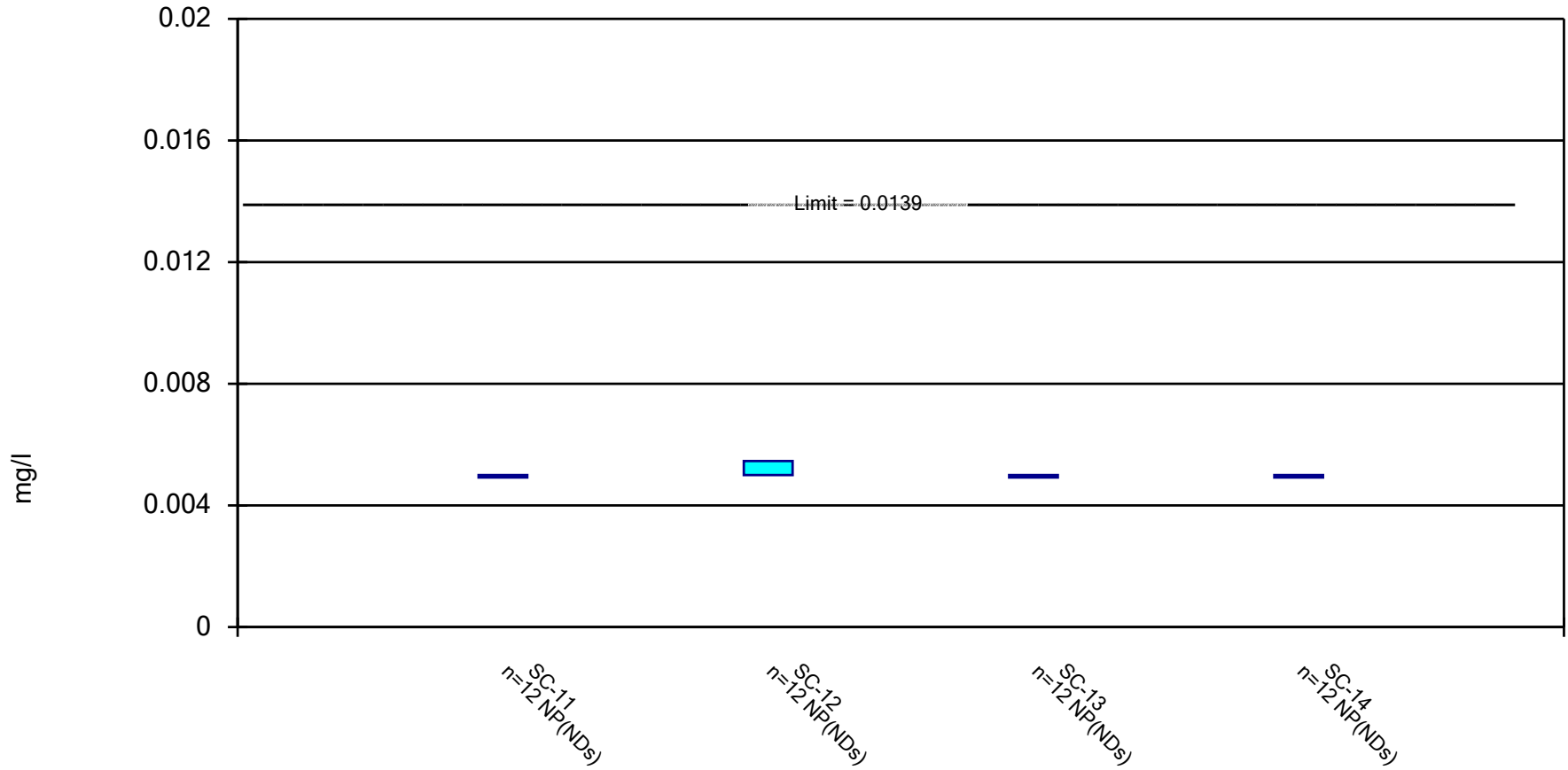
Constituent: Cobalt, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|--------------|--------------|--------------|------------|--------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | | | <0.005 |
| 6/23/2016 | | | | <0.005 | | |
| 6/27/2016 | | | | | 0.0078 | |
| 8/2/2016 | <0.005 (D) | <0.005 | | <0.005 | 0.005 | |
| 8/3/2016 | | | | | | <0.005 (D) |
| 9/19/2016 | <0.005 | <0.005 (D) | <0.005 | <0.005 | <0.005 | |
| 10/12/2016 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | |
| 10/13/2016 | | | | | | <0.005 |
| 11/15/2016 | <0.005 | <0.005 | <0.005 | <0.005 (D) | 0.00736 | |
| 11/16/2016 | | | | | | <0.005 |
| 1/18/2017 | <0.005 | <0.005 | <0.005 (D) | <0.005 | 0.00778 | |
| 1/19/2017 | | | | | | <0.005 |
| 2/14/2017 | <0.005 | <0.005 | <0.005 (D) | <0.005 | 0.00796 | |
| 2/15/2017 | | | | | | <0.005 (D) |
| 2/28/2017 | <0.005 (D) | <0.005 | <0.005 | <0.005 | 0.00553 | |
| 3/1/2017 | | | | | | <0.005 |
| 11/13/2017 | <0.005 | <0.005 (D) | <0.005 | <0.005 | 0.0118 | |
| 11/14/2017 | | | | | | <0.005 |
| 2/14/2018 | | <0.005 | 0.00636 | <0.005 (D) | 0.0139 | |
| 2/15/2018 | | | | | | 0.0059 |
| 9/25/2018 | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | 0.0108 (D) | |
| 9/26/2018 | | | | | | <0.005 (DD1) |
| 5/14/2019 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | |
| 5/15/2019 | | | | | | <0.005 |
| Mean | 0.005 | 0.005 | 0.005124 | 0.005 | 0.007744 | 0.005082 |
| Std. Dev. | 0 | 0 | 0.0004101 | 0 | 0.002999 | 0.0002714 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.009776 | 0.005 |
| Lower Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005524 | 0.005 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

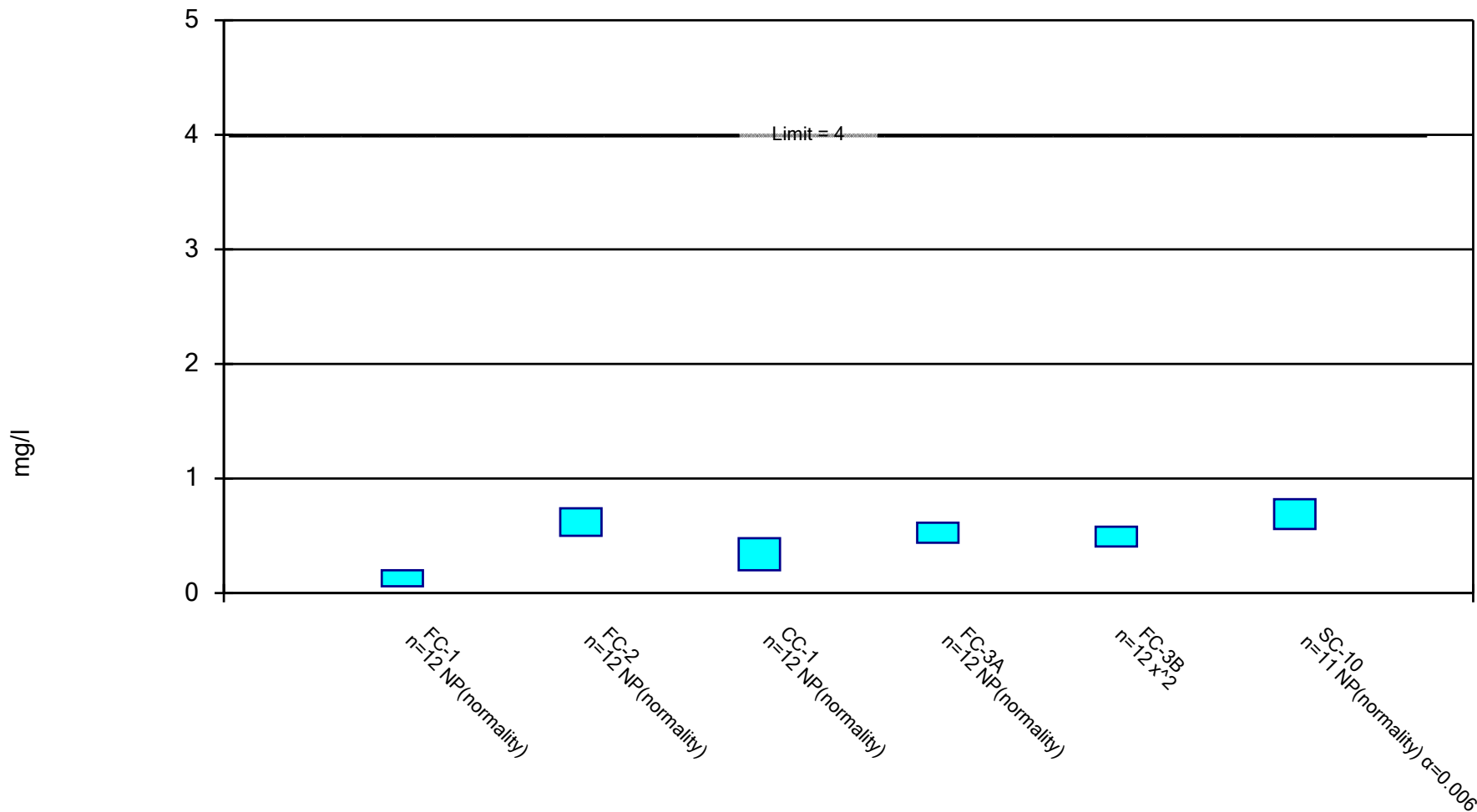
Constituent: Cobalt, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|--------------|--------------|--------------|--------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/3/2016 | 0.005 | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 10/13/2016 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/16/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 |
| 1/19/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/15/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/1/2017 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/14/2017 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 2/15/2018 | 0.00525 | 0.00546 | <0.005 | <0.005 |
| 9/26/2018 | <0.005 (DD1) | <0.005 (DD!) | <0.005 (DD1) | <0.005 (DD1) |
| 5/15/2019 | <0.005 | <0.005 | <0.005 | <0.005 |
| Mean | 0.005021 | 0.005038 | 0.005 | 0.005 |
| Std. Dev. | 7.217E-05 | 0.0001328 | 0 | 0 |
| Upper Lim. | 0.005 | 0.00546 | 0.005 | 0.005 |
| Lower Lim. | 0.005 | 0.005 | 0.005 | 0.005 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

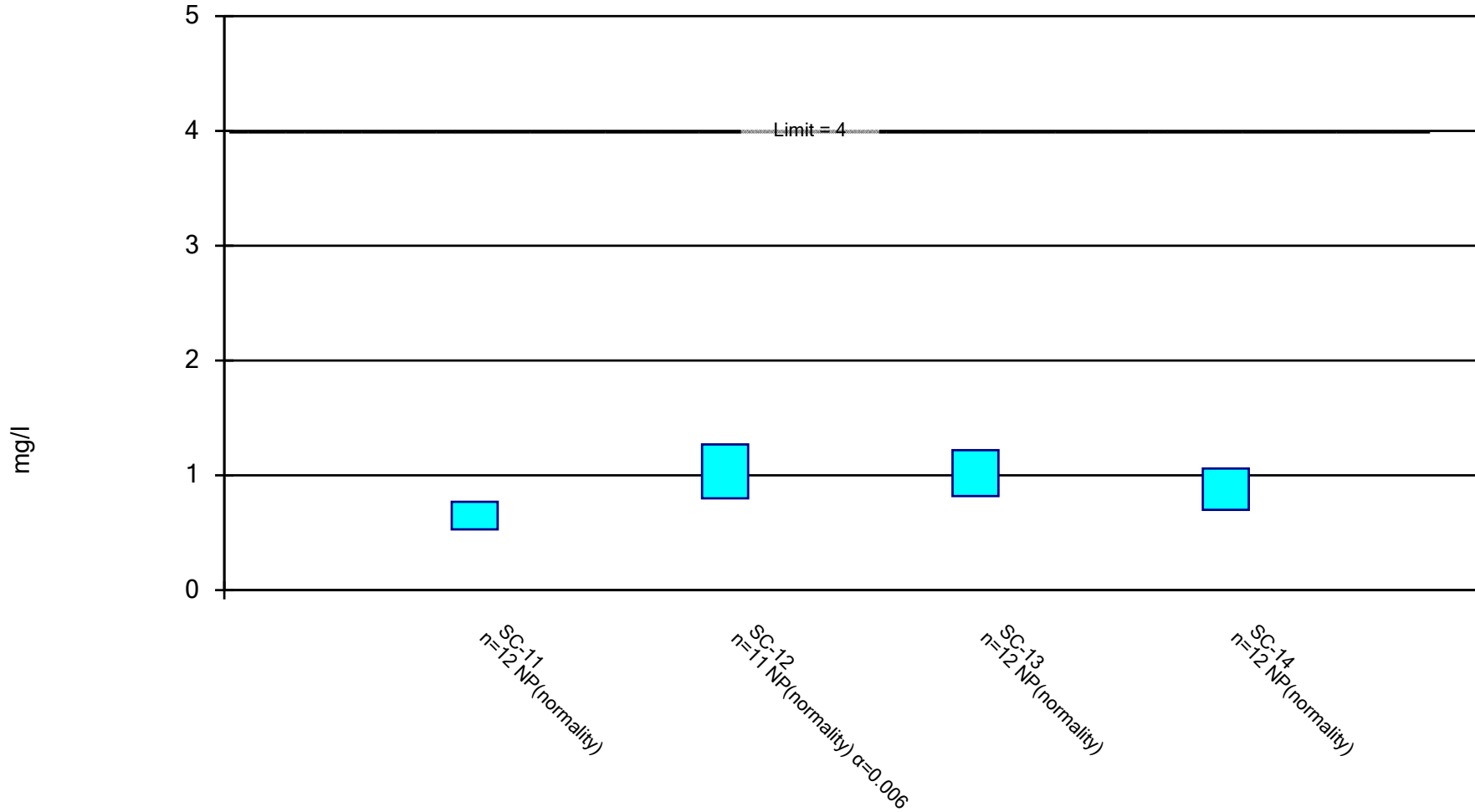
Constituent: Fluoride, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|-----------|------------|------------|-------------|------------|
| 6/22/2016 | 0.12 (T) | 0.51 (T) | 0.215 (TD) | | | 0.59 (T) |
| 6/23/2016 | | | | 0.46 (T) | | |
| 6/27/2016 | | | | | 0.55 | |
| 8/2/2016 | 0.06006 (TD) | 0.5 (T) | 0.21 (T) | 0.46 (T) | 0.00048 (T) | |
| 8/3/2016 | | | | | | 0.585 (TD) |
| 9/19/2016 | 0.13 | 0.985 (D) | 0.22 | 0.48 | 0.48 | |
| 9/20/2016 | | | | | | 0.56 |
| 10/12/2016 | 0.12 (T) | 0.52 (T) | 0.21 (T) | 0.465 (TD) | 0.51 (T) | |
| 10/13/2016 | | | | | | 0.61 (T) |
| 11/15/2016 | 0.12 (T) | 0.51 (T) | 0.2 (T) | 0.46 (TD) | 0.46 (T) | |
| 11/16/2016 | | | | | | 0.57 (T) |
| 1/18/2017 | 0.13 (T) | 0.52 (T) | 0.2 (TD) | 0.46 (T) | 0.56 (T) | |
| 1/19/2017 | | | | | | 0.56 (T) |
| 2/14/2017 | 0.13 (T) | 0.55 (T) | 0.22 (TD) | 0.48 (T) | 0.51 (T) | |
| 2/15/2017 | | | | | | 0.575 (TD) |
| 2/28/2017 | 0.13 (TD) | 0.53 (T) | 0.22 (T) | 0.47 (T) | 0.42 (T) | |
| 3/1/2017 | | | | | | 0.57 (T) |
| 11/13/2017 | 0.2 | 0.7 (D) | 0.45 | 0.56 | 0.48 | |
| 11/14/2017 | | | | | | 0.82 |
| 2/14/2018 | 0.21 | 0.74 | 0.5 | 0.615 (D) | 0.53 | |
| 2/15/2018 | | | | | | 0.84 |
| 9/25/2018 | 0.195 (D) | 0.73 | 0.48 | 0.62 | 0.52 | |
| 5/14/2019 | 0.13 | 0.51 | 0.2 | 0.44 (D) | 0.69 | |
| 5/15/2019 | | | | | | 0.54 |
| Mean | 0.1396 | 0.6088 | 0.2771 | 0.4975 | 0.4759 | 0.62 |
| Std. Dev. | 0.04223 | 0.1502 | 0.1211 | 0.0633 | 0.1638 | 0.1055 |
| Upper Lim. | 0.2 | 0.74 | 0.48 | 0.615 | 0.5798 | 0.82 |
| Lower Lim. | 0.06006 | 0.5 | 0.2 | 0.44 | 0.4073 | 0.56 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Confidence Interval

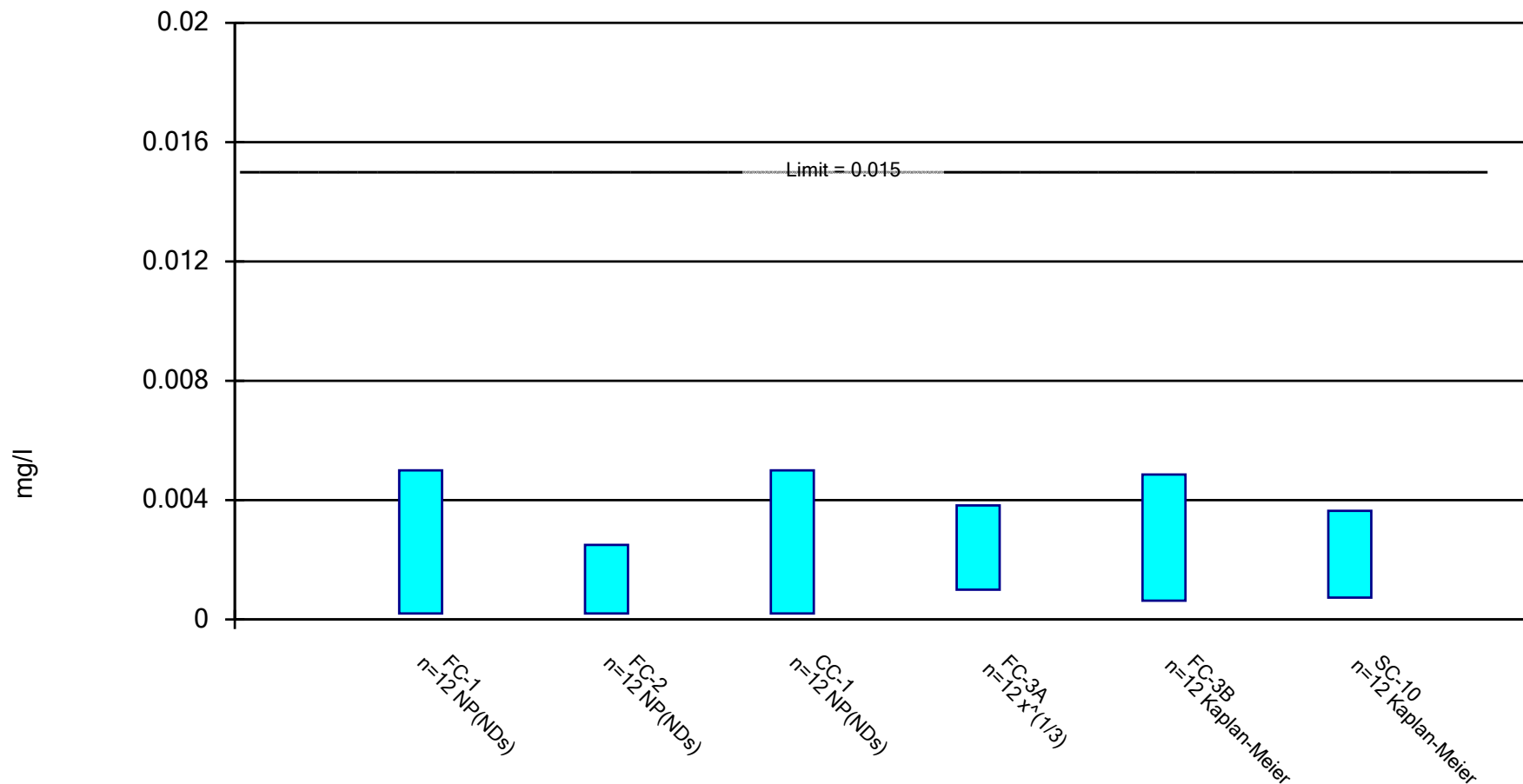
Constituent: Fluoride, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-----------|------------|-----------|----------|
| 6/22/2016 | 0.56 (T) | 0.79 (T) | 0.83 (T) | 0.73 (T) |
| 8/3/2016 | 0.54 (T) | 0.82 (T) | 0.82 (T) | 0.72 (T) |
| 9/20/2016 | 0.53 (D) | 0.82 | 1.22 (D) | 0.7 |
| 10/13/2016 | 0.57 (T) | 0.885 (TD) | 0.9 (T) | 0.77 (T) |
| 11/16/2016 | 0.53 (T) | 0.84 (T) | 0.84 (D) | 0.72 (T) |
| 1/19/2017 | 0.53 (T) | 0.84 (T) | 0.86 (T) | 0.74 (T) |
| 2/15/2017 | 0.55 (T) | | 0.86 (T) | 0.74 (T) |
| 3/1/2017 | 0.54 (T) | 0.84 (TD) | 0.84 (T) | 0.74 (T) |
| 11/14/2017 | 0.765 (D) | 1.27 | 1.21 | 1.06 |
| 2/15/2018 | 0.77 | 1.26 | 1.2 | 1.06 |
| 9/26/2018 | 0.8 | 1.31 | 1.275 (D) | 1.11 |
| 5/15/2019 | 0.53 | 0.8 (D) | 0.77 | 0.69 |
| Mean | 0.6013 | 0.9523 | 0.9688 | 0.815 |
| Std. Dev. | 0.1078 | 0.2122 | 0.1933 | 0.1596 |
| Upper Lim. | 0.77 | 1.27 | 1.22 | 1.06 |
| Lower Lim. | 0.53 | 0.8 | 0.82 | 0.7 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

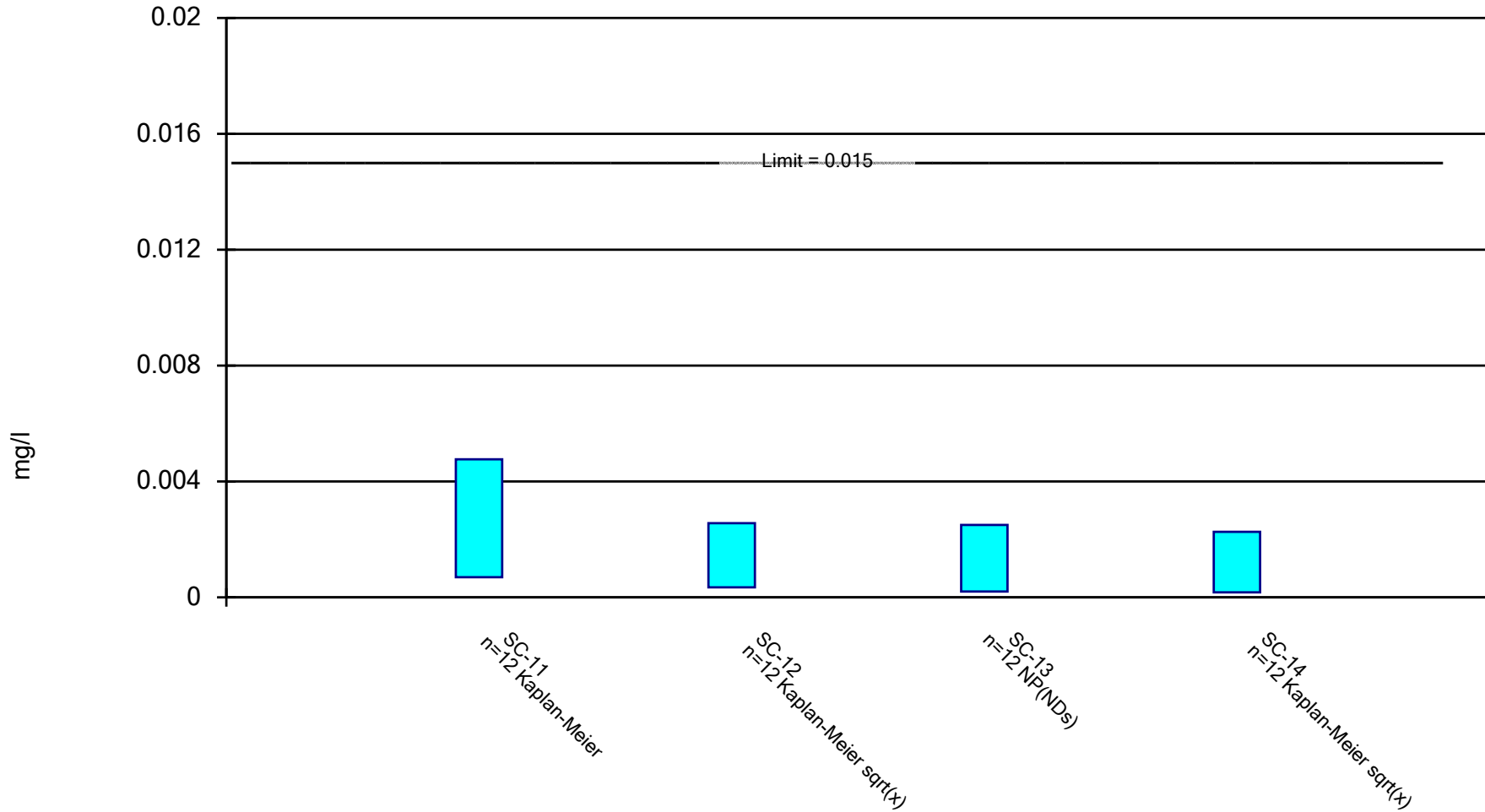
Confidence Interval

Constituent: Lead, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|---------------|---------------|--------------|---------------|---------------|
| 6/22/2016 | <0.0002 | 0.0002 | <0.0002 (D) | | | 0.0041 |
| 6/23/2016 | | | | 0.0052 | | |
| 6/27/2016 | | | | | 0.0039 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | <0.0002 | 0.0015 | 0.0021 | |
| 8/3/2016 | | | | | | 0.0017 (D) |
| 9/19/2016 | 0.00032 (D) | <0.0002 (D1) | <0.0002 (D1) | 0.001 (D) | 0.00042 (D) | |
| 9/20/2016 | | | | | | 0.00091 (D) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | 0.000835 (D) | <0.0002 (D1) | |
| 10/13/2016 | | | | | | 0.00044 (D) |
| 11/15/2016 | 0.0037 (D) | <0.0002 (D1) | 0.0052 (D) | 0.0031 (D) | 0.0065 (D) | |
| 11/16/2016 | | | | | | 0.0063 (D) |
| 1/18/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0035 (D) | 0.0035 (D) | 0.0035 (D) | |
| 1/19/2017 | | | | | | 0.0041 (D) |
| 2/14/2017 | 0.0027 (D) | 0.0018 (D) | 0.0028 (D) | 0.0017 (D) | 0.00099 (D) | |
| 2/15/2017 | | | | | | 0.00275 (D) |
| 2/28/2017 | 0.0081 (D) | 0.0089 (D) | 0.0049 (D) | 0.009 | 0.0089 (D) | |
| 3/1/2017 | | | | | | 0.0046 (D) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | 0.00091 (D) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | 0.0011 (D) |
| 2/14/2018 | <0.005 | <0.0025 | <0.005 | <0.0025 (D) | <0.0025 | |
| 2/15/2018 | | | | | | <0.005 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | 0.00086 | 0.0046 | |
| 9/26/2018 | | | | | | <0.0005 (D1) |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | 0.0011 (D1D) | 0.00073 (D1D) | |
| 5/15/2019 | | | | | | 0.00092 (D1D) |
| Mean | 0.001868 | 0.00135 | 0.001975 | 0.0026 | 0.002903 | 0.002702 |
| Std. Dev. | 0.002539 | 0.002487 | 0.002137 | 0.002424 | 0.002723 | 0.002037 |
| Upper Lim. | 0.005 | 0.0025 | 0.005 | 0.003825 | 0.004857 | 0.003643 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0009976 | 0.0006332 | 0.0007327 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

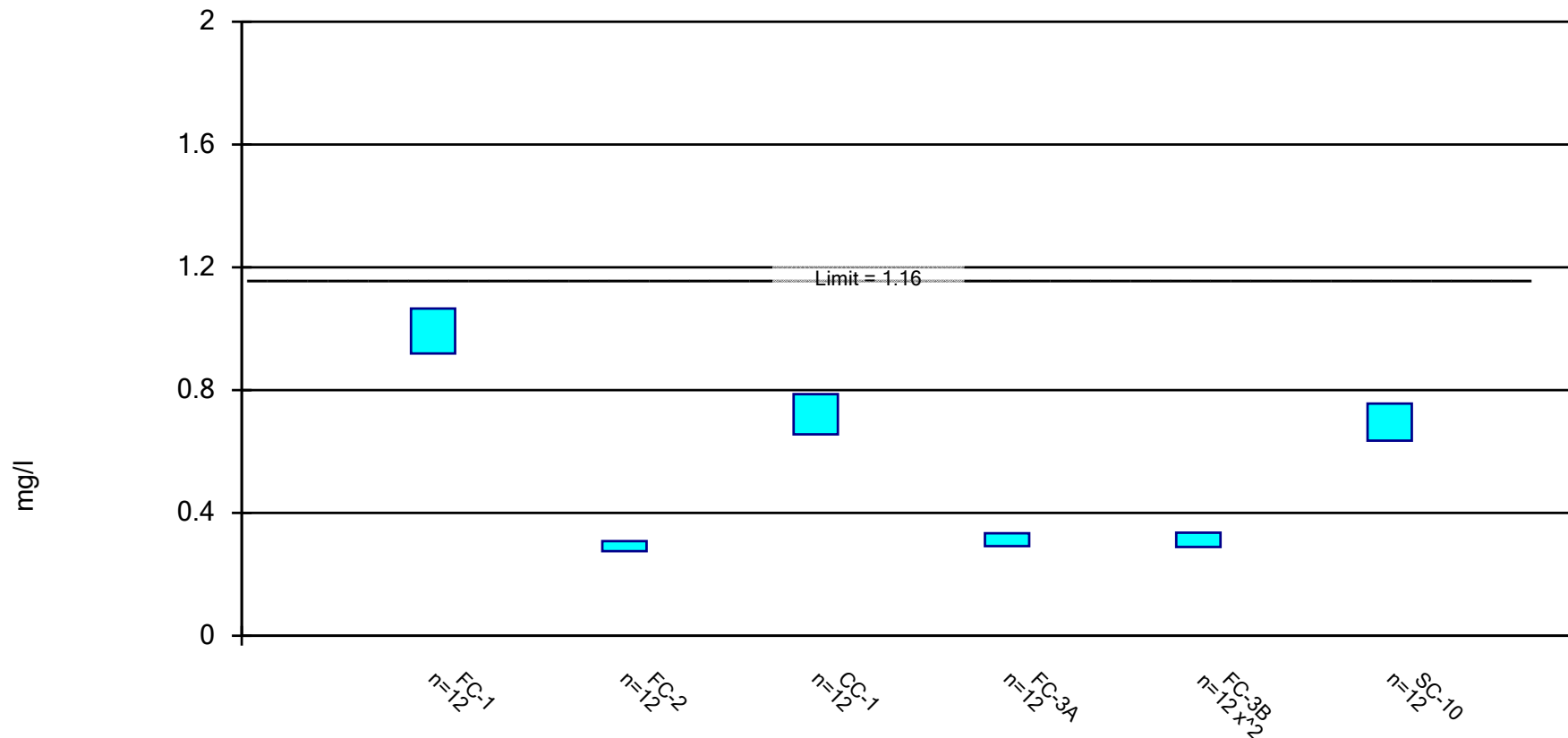
Constituent: Lead, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|--------------|---------------|---------------|
| 6/22/2016 | 0.0076 | 0.00043 | 0.00052 | 0.0046 |
| 8/3/2016 | 0.0043 | 0.0016 | <0.0002 | 0.0007 |
| 9/20/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 10/13/2016 | 0.0006 (D) | <0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.0063 (D) | 0.0038 (D) | 0.00145 (D) | 0.0016 (D) |
| 1/19/2017 | 0.0025 (D) | 0.0017 (D) | 0.0015 (D) | 0.0016 (D) |
| 2/15/2017 | 0.0028 (D) | 0.0021 (D) | 0.0015 (D) | 0.0015 (D) |
| 3/1/2017 | 0.0059 (D) | 0.0064 (D) | 0.0068 (D) | 0.0064 (D) |
| 11/14/2017 | 0.00073 (D) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.005 | <0.005 | <0.0025 | <0.0025 |
| 9/26/2018 | <0.0005 (D1) | 0.0012 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D) | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.003077 | 0.001969 | 0.001364 | 0.001733 |
| Std. Dev. | 0.002656 | 0.002043 | 0.001856 | 0.001931 |
| Upper Lim. | 0.004764 | 0.00256 | 0.0025 | 0.002264 |
| Lower Lim. | 0.000698 | 0.0003481 | 0.0002 | 0.000175 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

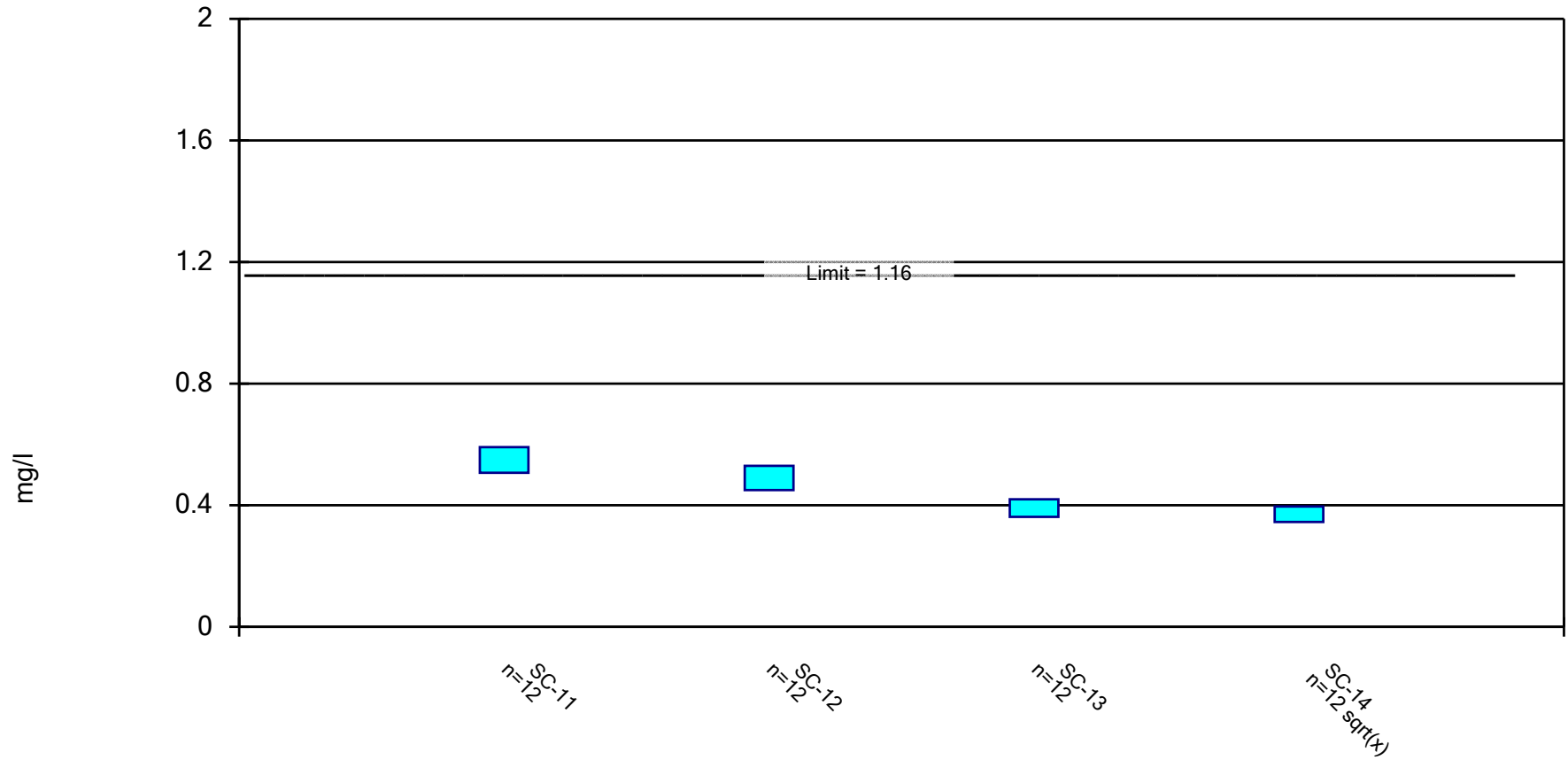
Constituent: Lithium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|------------|------------|-----------|------------|-----------|-----------|
| 6/22/2016 | 0.904 | 0.269 | 0.671 (D) | | | 0.601 |
| 6/23/2016 | | | | 0.303 | | |
| 6/27/2016 | | | | | 0.232 | |
| 8/2/2016 | 0.984 (D) | 0.305 | 0.731 | 0.311 | 0.274 | |
| 8/3/2016 | | | | | | 0.661 (D) |
| 9/19/2016 | 1.01 | 0.306 (D) | 0.779 | 0.343 | 0.295 | |
| 9/20/2016 | | | | | | 0.728 |
| 10/12/2016 | 1.03 | 0.307 | 0.825 | 0.3455 (D) | 0.315 | |
| 10/13/2016 | | | | | | 0.761 |
| 11/15/2016 | 1.16 | 0.325 (T) | 0.822 | 0.3375 (D) | 0.344 | |
| 11/16/2016 | | | | | | 0.786 |
| 1/18/2017 | 1.08 | 0.318 | 0.791 (D) | 0.343 (D) | 0.335 | |
| 1/19/2017 | | | | | | 0.858 (D) |
| 2/14/2017 | 1 | 0.298 | 0.73 (D) | 0.312 | 0.334 | |
| 2/15/2017 | | | | | | 0.671 (D) |
| 2/28/2017 | 0.9125 (D) | 0.275 (D) | 0.641 | 0.283 (D) | 0.326 (D) | |
| 3/1/2017 | | | | | | 0.637 (D) |
| 11/13/2017 | 0.894 | 0.2665 (D) | 0.63 | 0.288 | 0.31 | |
| 11/14/2017 | | | | | | 0.632 |
| 2/14/2018 | 0.9 (D) | 0.265 (D) | 0.576 (D) | 0.2635 (D) | 0.341 (D) | |
| 2/15/2018 | | | | | | 0.66 (D) |
| 9/25/2018 | 0.9085 (D) | 0.276 (D) | 0.664 (D) | 0.302 (D) | 0.316 (D) | |
| 9/26/2018 | | | | | | 0.626 (D) |
| 5/14/2019 | 1.13 | 0.294 | 0.798 | 0.3265 (D) | 0.321 | |
| 5/15/2019 | | | | | | 0.729 |
| Mean | 0.9928 | 0.292 | 0.7215 | 0.3132 | 0.3119 | 0.6958 |
| Std. Dev. | 0.09342 | 0.02099 | 0.08358 | 0.0267 | 0.03208 | 0.07707 |
| Upper Lim. | 1.066 | 0.3085 | 0.7871 | 0.3341 | 0.336 | 0.7563 |
| Lower Lim. | 0.9194 | 0.2756 | 0.6559 | 0.2922 | 0.2891 | 0.6354 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

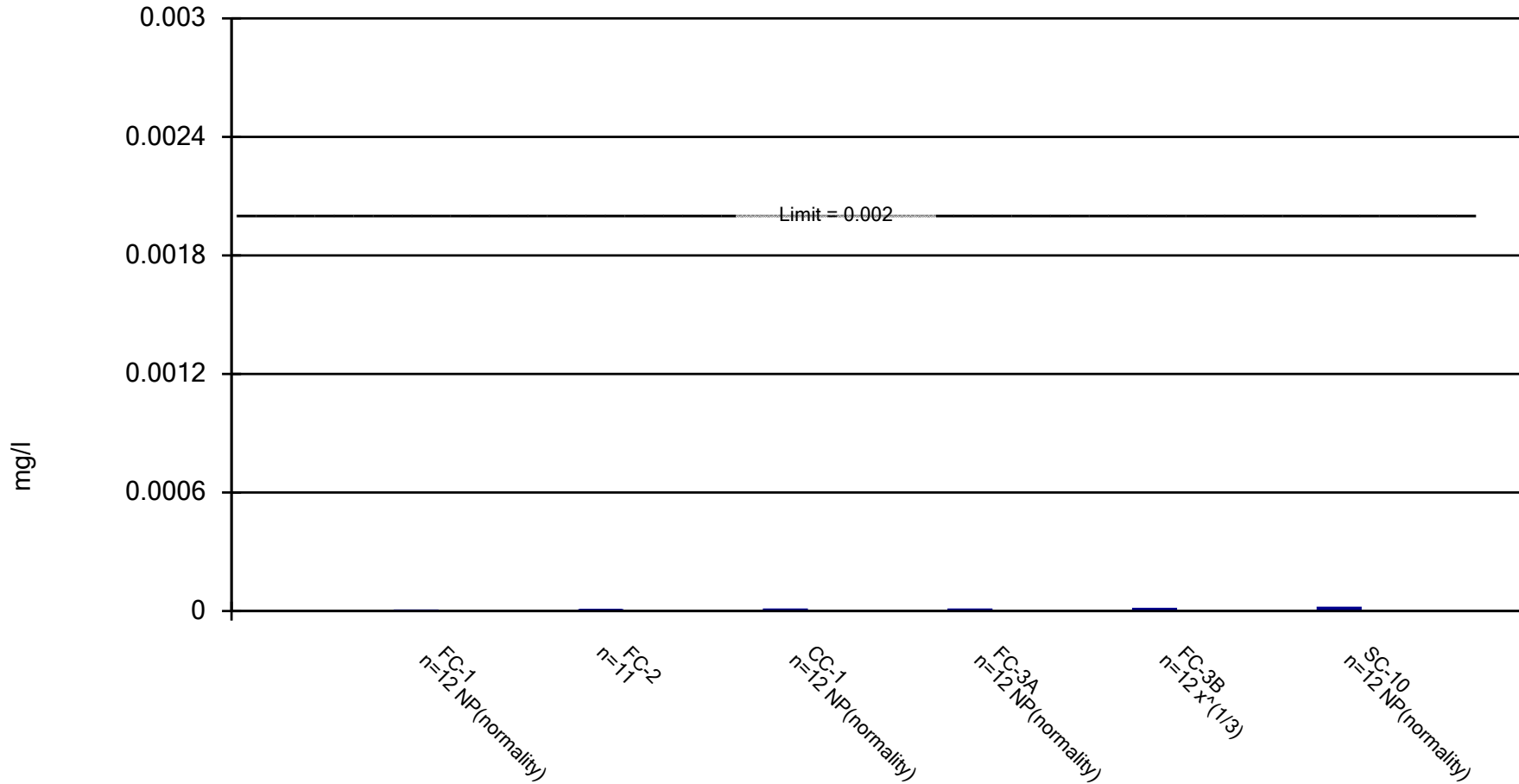
Constituent: Lithium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 0.475 | 0.422 | 0.394 | 0.363 |
| 8/3/2016 | 0.497 | 0.47 | 0.384 | 0.353 |
| 9/20/2016 | 0.593 (D) | 0.53 | 0.429 | 0.406 |
| 10/13/2016 | 0.611 | 0.546 (D) | 0.437 | 0.415 |
| 11/16/2016 | 0.622 | 0.572 | 0.4445 (D) | 0.422 |
| 1/19/2017 | 0.619 (D) | 0.558 (D) | 0.433 (D) | 0.407 (D) |
| 2/15/2017 | 0.542 | 0.472 | 0.379 | 0.365 |
| 3/1/2017 | 0.5 (D) | 0.449 (D) | 0.343 (D) | 0.338 (D) |
| 11/14/2017 | 0.519 (D) | 0.443 | 0.345 | 0.336 |
| 2/15/2018 | 0.494 (D) | 0.442 (D) | 0.374 (D) | 0.345 (D) |
| 9/26/2018 | 0.534 (D) | 0.471 (D) | 0.3495 (D) | 0.336 (D) |
| 5/15/2019 | 0.583 | 0.505 (D) | 0.378 | 0.363 |
| Mean | 0.5491 | 0.49 | 0.3908 | 0.3708 |
| Std. Dev. | 0.05389 | 0.05064 | 0.03691 | 0.0327 |
| Upper Lim. | 0.5914 | 0.5297 | 0.4198 | 0.396 |
| Lower Lim. | 0.5068 | 0.4503 | 0.3619 | 0.3451 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

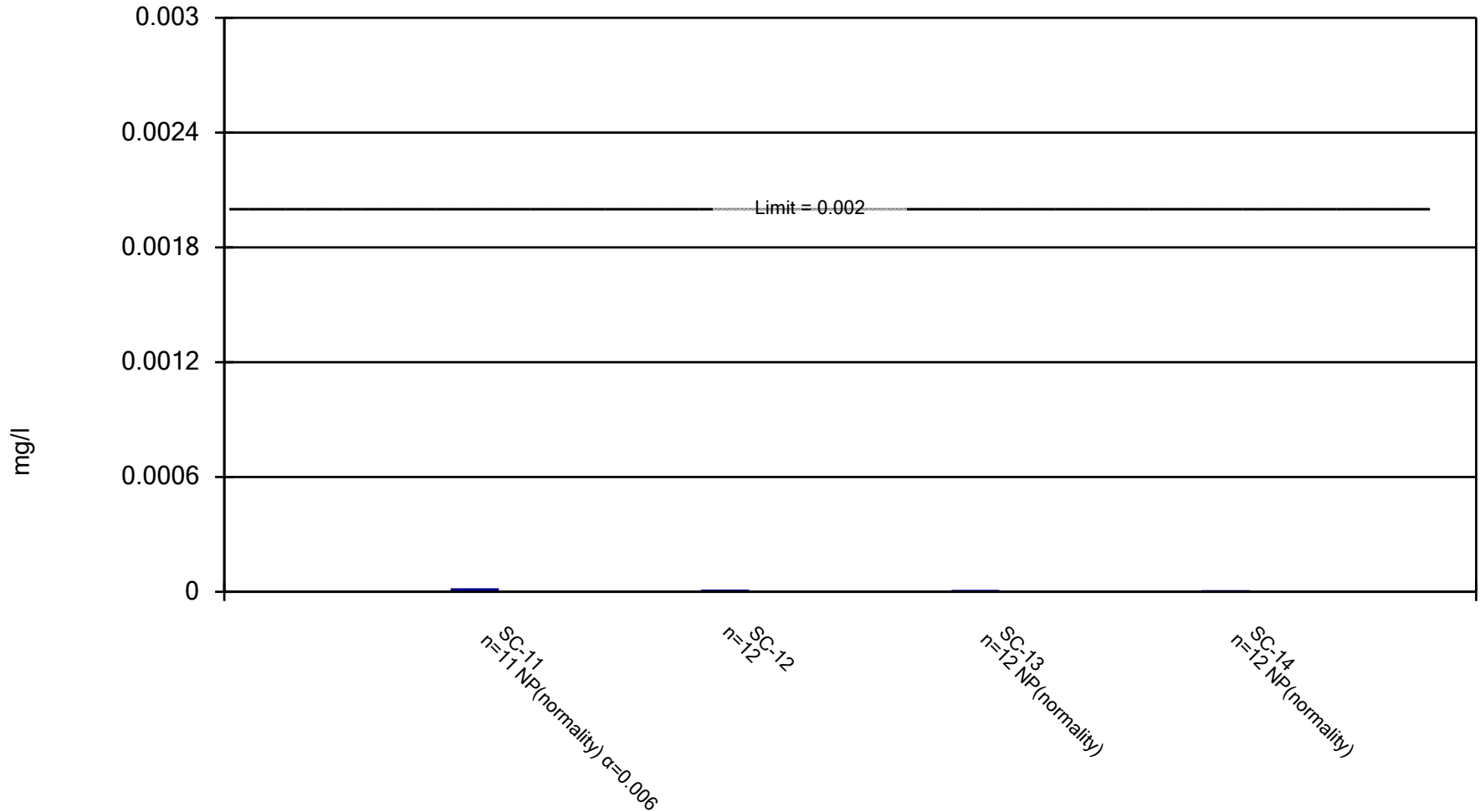
Constituent: Mercury, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|--------------|-------------|-------------|-----------|--------------|
| 6/22/2016 | 1.3E-06 | 2.8E-06 | 4.7E-06 (D) | | | 3.6E-05 |
| 6/23/2016 | | | | 5.4E-06 | | |
| 6/27/2016 | | | | | 1.3E-05 | |
| 8/2/2016 | 2E-06 (D) | 4E-06 | 6E-06 | 7E-06 | 6E-06 | |
| 8/3/2016 | | | | | | 1.05E-05 (D) |
| 9/19/2016 | 2E-06 | 3E-06 (D) | 6E-06 | 4E-06 | 3E-06 | |
| 9/20/2016 | | | | | | 1.6E-05 |
| 10/12/2016 | 2E-06 | | 6E-06 | 5E-06 (D) | 3E-06 | |
| 10/13/2016 | | | | | | 1E-05 |
| 11/15/2016 | 2E-06 | 4E-06 | 6E-06 | 2E-06 (D) | 9E-06 | |
| 11/16/2016 | | | | | | 1E-05 |
| 1/18/2017 | 2E-06 | 5E-06 | 7.5E-06 (D) | 2E-06 | 8E-06 | |
| 1/19/2017 | | | | | | 1.1E-05 |
| 2/14/2017 | 2E-06 | 4E-06 | 6E-06 (D) | 2E-06 | 4E-06 | |
| 2/15/2017 | | | | | | 9E-06 (D) |
| 2/28/2017 | 2E-06 (D) | 4E-06 | 6E-06 | 2E-06 | 5E-06 | |
| 3/1/2017 | | | | | | 9E-06 |
| 11/13/2017 | 2E-06 (T) | 3.5E-06 (TD) | 6E-06 (T) | 4E-06 (T) | 7E-06 (T) | |
| 11/14/2017 | | | | | | 1E-05 |
| 2/14/2018 | 2E-06 | 3E-06 | 5E-06 | 2E-06 (D) | 5E-06 | |
| 2/15/2018 | | | | | | 1.1E-05 |
| 9/25/2018 | 2.5E-06 (D) | 3E-06 | 5E-06 | 3E-06 | 2.4E-05 | |
| 9/26/2018 | | | | | | 9E-06 |
| 5/14/2019 | 2E-06 | 3E-06 | 6E-06 | 7.5E-06 (D) | 3E-06 | |
| 5/15/2019 | | | | | | 1E-05 |
| Mean | 1.983E-06 | 3.573E-06 | 5.85E-06 | 3.825E-06 | 7.5E-06 | 1.263E-05 |
| Std. Dev. | 2.6E-07 | 6.8E-07 | 7.2E-07 | 2.019E-06 | 5.977E-06 | 7.595E-06 |
| Upper Lim. | 2.5E-06 | 4.143E-06 | 7.5E-06 | 7E-06 | 1.065E-05 | 1.6E-05 |
| Lower Lim. | 1.3E-06 | 3.003E-06 | 5E-06 | 2E-06 | 3.581E-06 | 9E-06 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

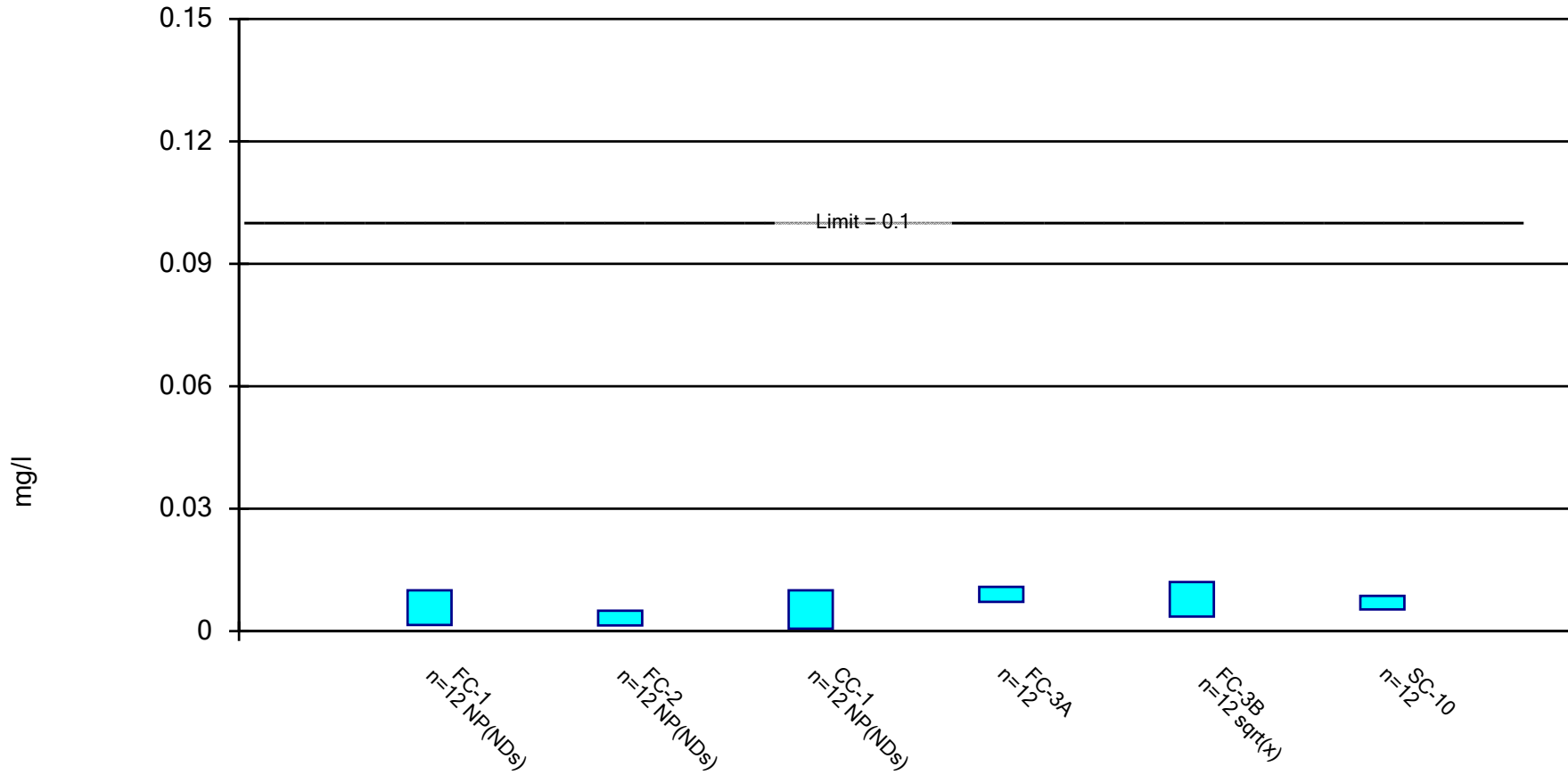
Constituent: Mercury, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|-----------|-----------|-----------|
| 6/22/2016 | 6.7E-05 | 4.5E-06 | 3.6E-06 | 1.2E-05 |
| 8/3/2016 | | 6E-06 | 2E-06 | 3E-06 |
| 9/20/2016 | 9.5E-06 (D) | 5E-06 | 3E-06 | 3E-06 |
| 10/13/2016 | 1E-05 | 3E-06 (D) | 2E-06 | 2E-06 |
| 11/16/2016 | 1E-05 | 4E-06 | 2E-06 (D) | 2E-06 |
| 1/19/2017 | 1E-05 | 4E-06 | 3E-06 | 2E-06 |
| 2/15/2017 | 8E-06 | 3E-06 | 2E-06 | 2E-06 |
| 3/1/2017 | 9E-06 | 3E-06 (D) | 3E-06 | <2E-06 |
| 11/14/2017 | 7.5E-06 (D) | 4E-06 | 2E-06 | 2E-06 |
| 2/15/2018 | 1.3E-05 | 4E-06 | 2E-06 | 2E-06 |
| 9/26/2018 | 8E-06 | 5E-06 | 2E-06 (D) | 2E-06 |
| 5/15/2019 | 9E-06 | 4E-06 (D) | 2E-06 | 2E-06 |
| Mean | 1.464E-05 | 4.125E-06 | 2.383E-06 | 2.917E-06 |
| Std. Dev. | 1.743E-05 | 9.1E-07 | 5.9E-07 | 2.906E-06 |
| Upper Lim. | 1.3E-05 | 4.837E-06 | 3.6E-06 | 3E-06 |
| Lower Lim. | 8E-06 | 3.413E-06 | 2E-06 | 1E-06 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

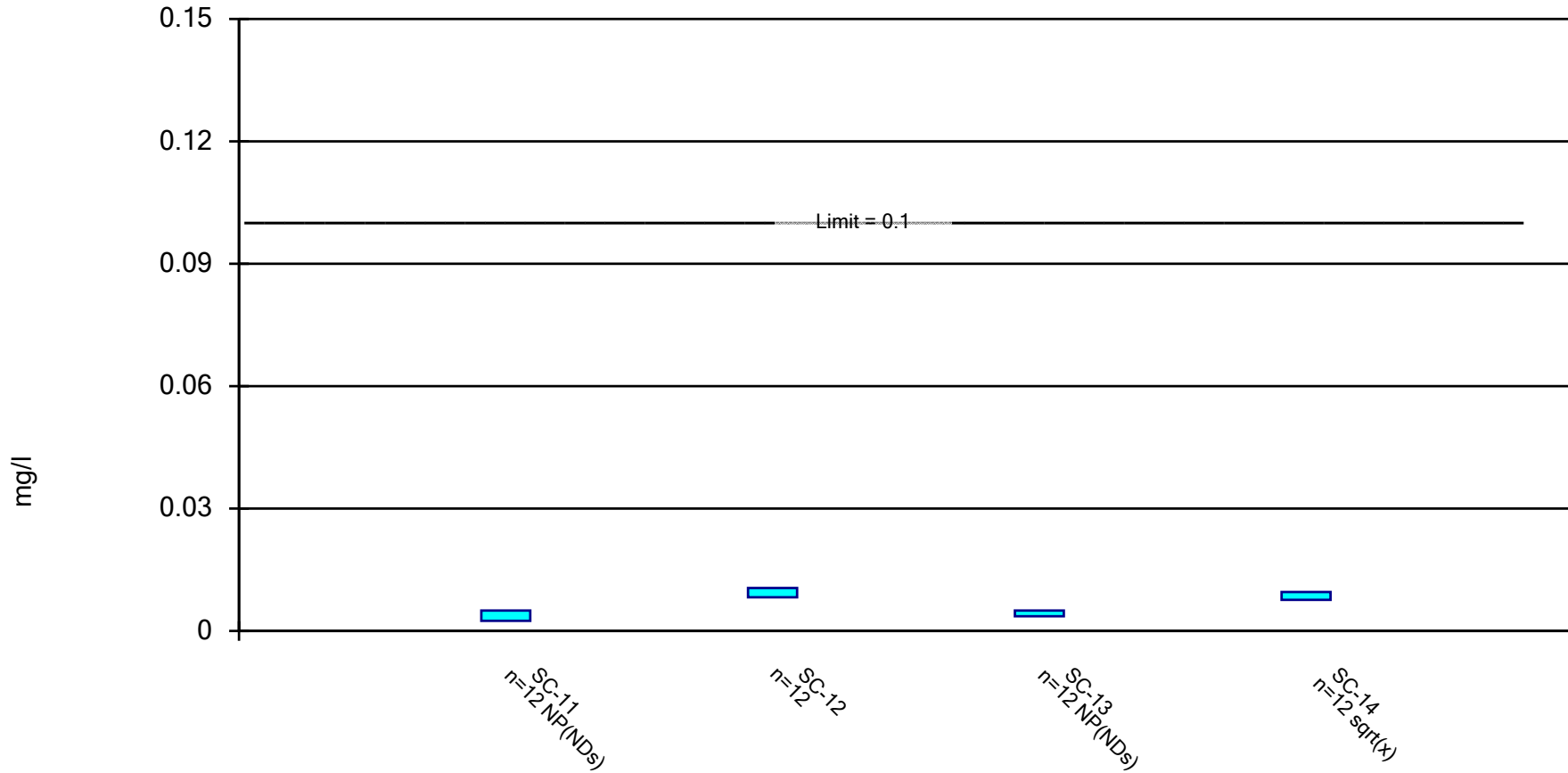
Constituent: Molybdenum, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|------------|--------------|--------------|--------------|------------|--------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | | | 0.0113 |
| 6/23/2016 | | | | <0.005 | | |
| 6/27/2016 | | | | | 0.0201 | |
| 8/2/2016 | <0.005 (D) | <0.005 | <0.005 | 0.00838 | 0.0198 | |
| 8/3/2016 | | | | | | 0.008055 (D) |
| 9/19/2016 | <0.005 | <0.005 (D) | <0.005 | 0.0122 | 0.00609 | |
| 9/20/2016 | | | | | | 0.00911 |
| 10/12/2016 | <0.005 | 0.001252 (D) | <0.005 | 0.009175 (D) | 0.00525 | |
| 10/13/2016 | | | | | | 0.00767 |
| 11/15/2016 | <0.005 | <0.005 | <0.005 | 0.01065 (D) | 0.0117 | |
| 11/16/2016 | | | | | | 0.0074 |
| 1/18/2017 | <0.005 | <0.005 | <0.005 (D) | 0.00969 | <0.005 | |
| 1/19/2017 | | | | | | 0.00614 |
| 2/14/2017 | <0.005 | <0.005 | <0.005 (D) | 0.0104 | 0.00716 | |
| 2/15/2017 | | | | | | 0.006325 (D) |
| 2/28/2017 | <0.005 (D) | <0.005 | <0.005 | 0.0109 | 0.00842 | |
| 3/1/2017 | | | | | | 0.00646 |
| 11/13/2017 | 0.0015 (D) | 0.0014 (D) | <0.0002 (D1) | 0.005 (D) | 0.0042 (D) | |
| 11/14/2017 | | | | | | 0.0026 (D) |
| 2/14/2018 | <0.01 | 0.003 | <0.01 | 0.0112 (D) | 0.0055 | |
| 2/15/2018 | | | | | | 0.0072 |
| 9/25/2018 | 0.0015 (D) | 0.002 | 0.0006 | 0.0086 | 0.0027 | |
| 9/26/2018 | | | | | | 0.0062 |
| 5/14/2019 | 0.0018 | 0.002 (D) | 0.00068 (D) | 0.0069 (D) | 0.0014 (D) | |
| 5/15/2019 | | | | | | 0.0054 (D) |
| Mean | 0.004567 | 0.003721 | 0.00429 | 0.009008 | 0.00811 | 0.006988 |
| Std. Dev. | 0.002286 | 0.001634 | 0.002697 | 0.002352 | 0.006125 | 0.002105 |
| Upper Lim. | 0.01 | 0.005 | 0.01 | 0.01085 | 0.01205 | 0.00864 |
| Lower Lim. | 0.0015 | 0.0014 | 0.0006 | 0.007163 | 0.003562 | 0.005337 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

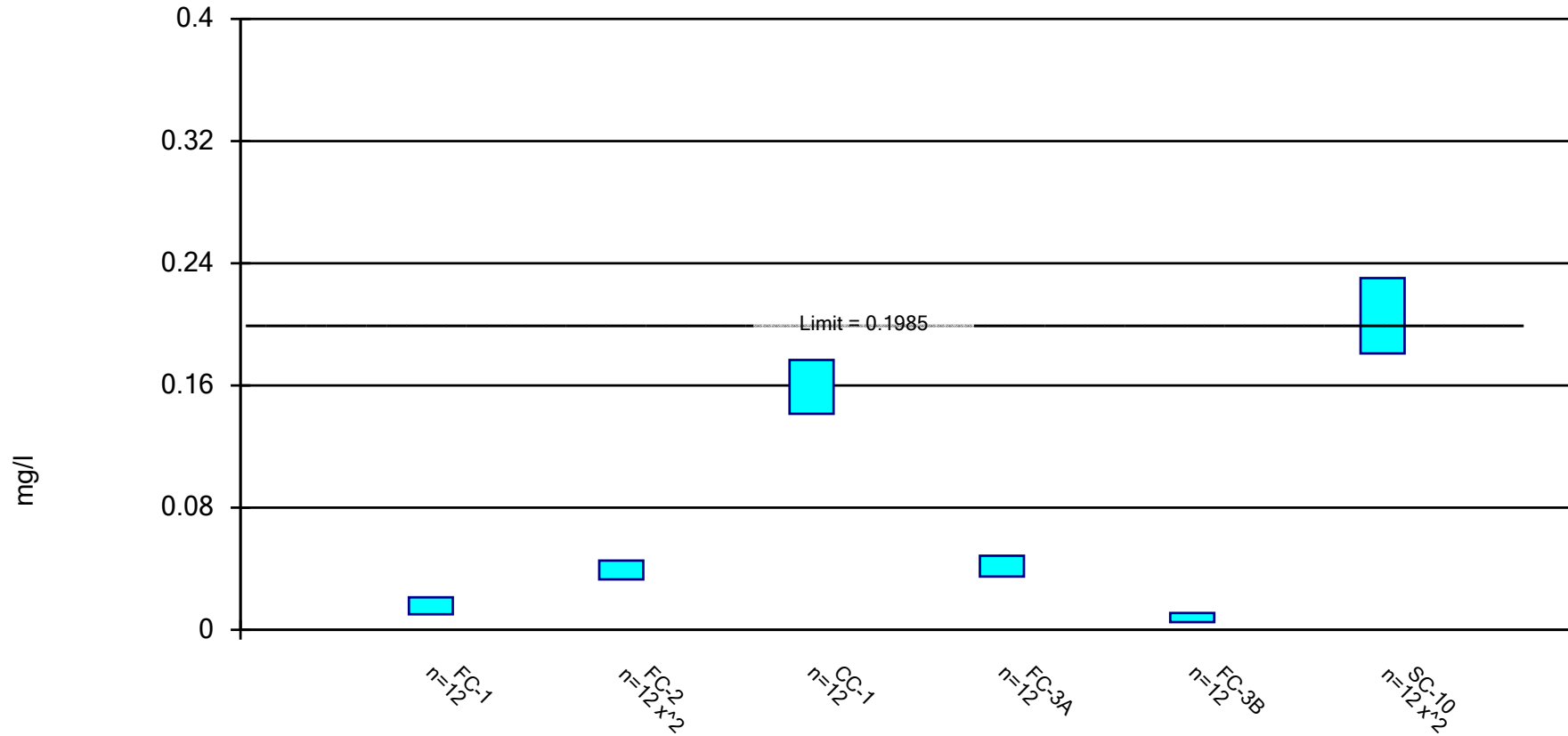
Constituent: Molybdenum, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|-------------|-------------|------------|
| 6/22/2016 | <0.005 | 0.0128 | <0.005 | 0.0079 |
| 8/3/2016 | <0.005 | 0.0103 | <0.005 | 0.00734 |
| 9/20/2016 | <0.005 (D) | 0.00983 | <0.005 | 0.00819 |
| 10/13/2016 | <0.005 | 0.0101 (D) | <0.005 | 0.00848 |
| 11/16/2016 | <0.005 | 0.00951 | <0.005 (D) | 0.00897 |
| 1/19/2017 | <0.005 | 0.00866 | <0.005 | 0.00798 |
| 2/15/2017 | <0.005 | 0.00909 | <0.005 | 0.00821 |
| 3/1/2017 | <0.005 | 0.00905 (D) | <0.005 | 0.00869 |
| 11/14/2017 | 0.00185 (D) | 0.0067 (D) | 0.0036 (D) | 0.0072 (D) |
| 2/15/2018 | 0.0033 | 0.0097 | 0.005 | 0.012 |
| 9/26/2018 | 0.003 | 0.0089 | 0.00375 (D) | 0.0098 |
| 5/15/2019 | 0.0025 (D) | 0.0081 (D) | 0.0031 (D) | 0.0086 (D) |
| Mean | 0.004221 | 0.009395 | 0.004621 | 0.008613 |
| Std. Dev. | 0.001198 | 0.00145 | 0.0007011 | 0.001276 |
| Upper Lim. | 0.005 | 0.01053 | 0.005 | 0.009554 |
| Lower Lim. | 0.0025 | 0.008257 | 0.0036 | 0.007646 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

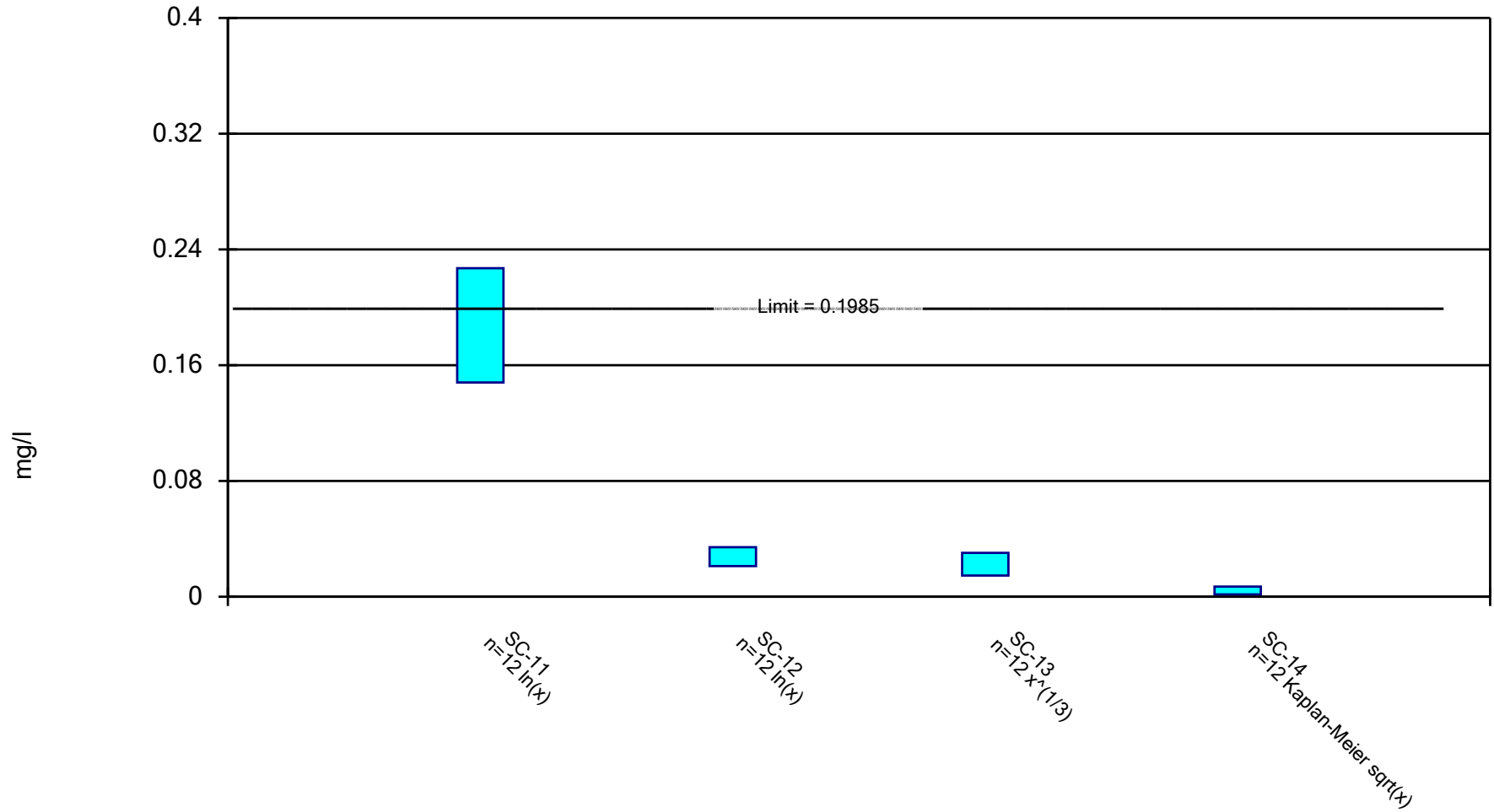
Confidence Interval

Constituent: Selenium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|-------------|------------|-------------|------------|-------------|
| 6/22/2016 | 0.016 | 0.0471 | 0.1985 (D) | | | 0.212 |
| 6/23/2016 | | | | 0.0393 | | |
| 6/27/2016 | | | | | 0.0057 | |
| 8/2/2016 | 0.0098 (D) | 0.0412 | 0.186 | 0.0382 | 0.0069 | |
| 8/3/2016 | | | | | | 0.216 (D) |
| 9/19/2016 | 0.028 (D) | 0.04895 (D) | 0.157 (D) | 0.0364 (D) | 0.0112 (D) | |
| 9/20/2016 | | | | | | 0.201 (D) |
| 10/12/2016 | 0.0167 (D) | <0.001 (D1) | 0.138 (D) | 0.04245 (D) | 0.0115 (D) | |
| 10/13/2016 | | | | | | 0.194 (D) |
| 11/15/2016 | 0.0136 | 0.0356 (D) | 0.145 (D) | 0.0355 (D) | 0.0106 (D) | |
| 11/16/2016 | | | | | | 0.201 (DP1) |
| 1/18/2017 | 0.0254 (D) | 0.0452 (D) | 0.1385 (D) | 0.039 (D) | 0.0067 (D) | |
| 1/19/2017 | | | | | | 0.22 (D) |
| 2/14/2017 | 0.0141 (DT) | 0.0388 (DT) | 0.1415 (D) | 0.0352 (DT) | 0.0092 (D) | |
| 2/15/2017 | | | | | | 0.22 (D) |
| 2/28/2017 | 0.00375 (D) | 0.0367 (D) | 0.143 (D) | 0.0263 (D) | 0.0011 (D) | |
| 3/1/2017 | | | | | | 0.224 (D) |
| 11/13/2017 | 0.015 (D) | 0.0381 (D) | 0.135 (D) | 0.0552 (D) | 0.0107 (D) | |
| 11/14/2017 | | | | | | 0.168 (D) |
| 2/14/2018 | 0.0068 | 0.044 | 0.169 | 0.0543 (D) | 0.0036 | |
| 2/15/2018 | | | | | | 0.249 |
| 9/25/2018 | 0.02165 (D) | 0.0371 | 0.17 | 0.0512 | 0.0142 | |
| 9/26/2018 | | | | | | 0.111 (D) |
| 5/14/2019 | 0.0178 (D) | 0.0402 (D) | 0.188 (D) | 0.04725 (D) | 0.005 (D) | |
| 5/15/2019 | | | | | | 0.235 (D) |
| Mean | 0.01572 | 0.03779 | 0.1591 | 0.04169 | 0.008033 | 0.2043 |
| Std. Dev. | 0.007075 | 0.01251 | 0.02246 | 0.008707 | 0.003821 | 0.03589 |
| Upper Lim. | 0.02127 | 0.04531 | 0.1768 | 0.04852 | 0.01103 | 0.2303 |
| Lower Lim. | 0.01017 | 0.03301 | 0.1415 | 0.03486 | 0.005036 | 0.181 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

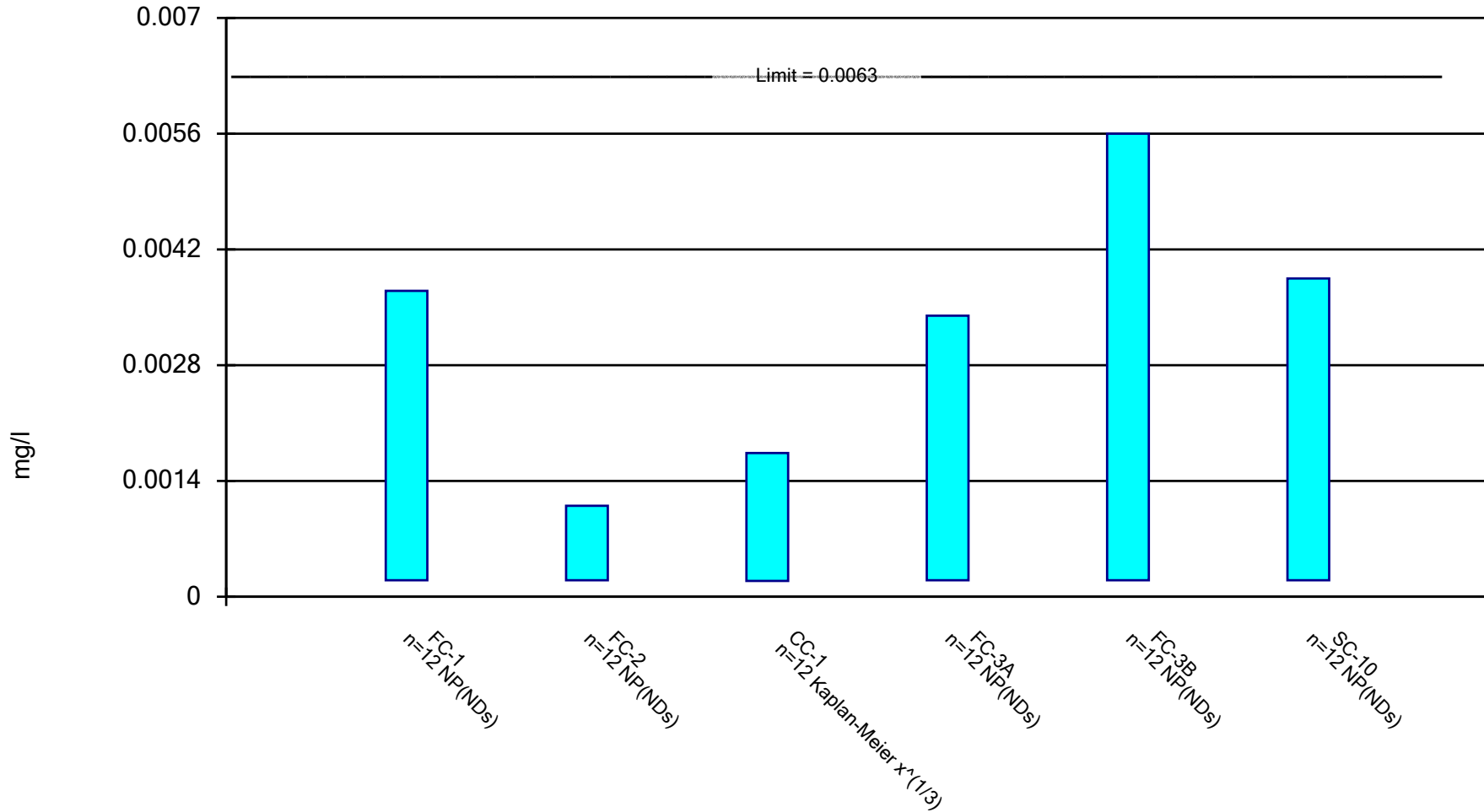
Constituent: Selenium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|--------------|-------------|--------------|
| 6/22/2016 | 0.168 | 0.0203 | 0.0311 | 0.0031 |
| 8/3/2016 | 0.155 | 0.0197 | 0.0236 | 0.0035 |
| 9/20/2016 | 0.188 (D) | 0.0252 (D) | 0.0228 (D) | 0.0062 (D) |
| 10/13/2016 | 0.168 (D) | 0.05055 (D) | 0.0558 (D) | 0.0192 (D) |
| 11/16/2016 | 0.163 (DP1) | 0.0237 (DP1) | 0.00765 (D) | <0.001 (D1P) |
| 1/19/2017 | 0.196 (D) | 0.0337 (D) | 0.0202 (D) | 0.0013 (D) |
| 2/15/2017 | 0.194 (D) | 0.03 (D) | 0.0164 (D) | 0.0033 (D) |
| 3/1/2017 | 0.189 (D) | 0.02355 (D) | 0.0177 (D) | <0.001 (D1) |
| 11/14/2017 | 0.213 (D) | 0.0252 (D) | 0.0236 (D) | 0.0046 (D) |
| 2/15/2018 | 0.355 | 0.0437 | 0.0204 | 0.0055 |
| 9/26/2018 | 0.107 (D) | 0.0231 | 0.01845 (D) | 0.002 |
| 5/15/2019 | 0.186 (D) | 0.0198 (D) | 0.0185 (D) | 0.005 (D) |
| Mean | 0.1902 | 0.02821 | 0.02302 | 0.004558 |
| Std. Dev. | 0.05849 | 0.009837 | 0.0117 | 0.004983 |
| Upper Lim. | 0.2271 | 0.03423 | 0.03036 | 0.007059 |
| Lower Lim. | 0.1481 | 0.02117 | 0.01465 | 0.001629 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

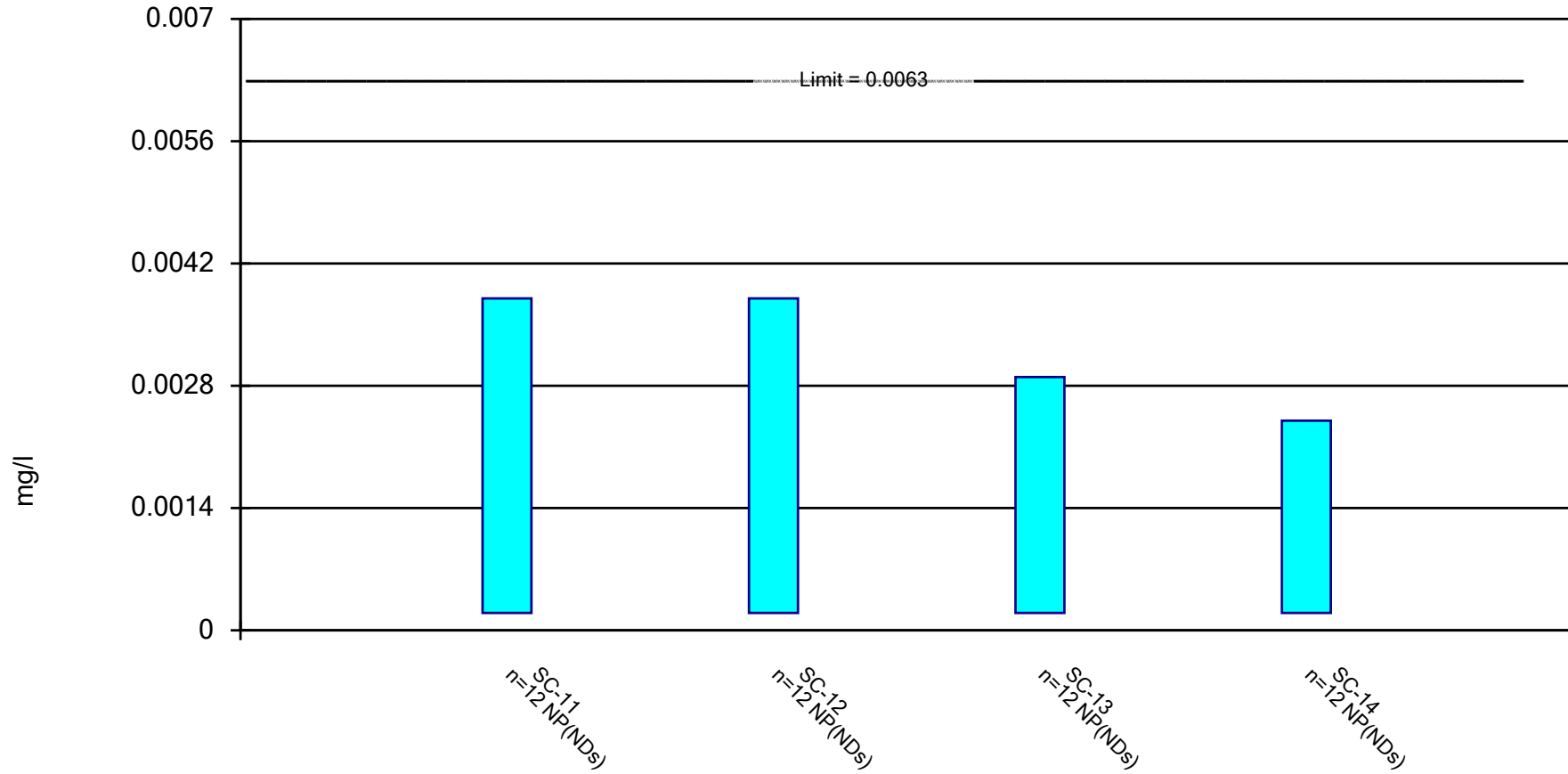
Confidence Interval

Constituent: Thallium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | 0.0002 | <0.0002 | 0.000455 (D) | | | <0.0002 |
| 6/23/2016 | | | | <0.0002 | | |
| 6/27/2016 | | | | | <0.0002 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | 0.00045 | <0.0002 | <0.0002 | |
| 8/3/2016 | | | | | | <0.0002 (D) |
| 9/19/2016 | 0.00027 (D) | 0.000545 (D) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | |
| 9/20/2016 | | | | | | <0.0002 (D1) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D) | <0.0002 (D1) | |
| 10/13/2016 | | | | | | <0.0002 (D1) |
| 11/15/2016 | 0.0061 (D) | <0.0002 (D1) | 0.0063 (D) | 0.0057 (D) | 0.0056 (D) | |
| 11/16/2016 | | | | | | 0.0077 (D) |
| 1/18/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0014 (D) | 0.00069 (D) | 0.00098 (D) | |
| 1/19/2017 | | | | | | 0.00091 (D) |
| 2/14/2017 | 0.0037 (D) | 0.0036 (D) | 0.00385 (D) | 0.0034 (D) | 0.0062 (D) | |
| 2/15/2017 | | | | | | 0.00385 (D) |
| 2/28/2017 | 0.0011 (D) | 0.0011 (D) | 0.0014 (D) | 0.0011 (D) | 0.00091 (D) | |
| 3/1/2017 | | | | | | 0.00082 (D) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | <0.0005 (D1) |
| 2/14/2018 | <0.002 | <0.001 | <0.002 | <0.001 (D) | <0.001 | |
| 2/15/2018 | | | | | | <0.0004 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/26/2018 | | | | | | <0.0005 (D1) |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 5/15/2019 | | | | | | <0.0005 (D1D) |
| Mean | 0.001314 | 0.0007538 | 0.00148 | 0.001183 | 0.001416 | 0.001332 |
| Std. Dev. | 0.001824 | 0.0009443 | 0.001844 | 0.001675 | 0.00212 | 0.002244 |
| Upper Lim. | 0.0037 | 0.0011 | 0.001738 | 0.0034 | 0.0056 | 0.00385 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0001909 | 0.0002 | 0.0002 | 0.0002 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, Total Analysis Run 9/10/2019 11:06 AM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

Constituent: Thallium, Total (mg/l) Analysis Run 9/10/2019 11:12 AM View: CCR Landfill Prediction Intervals

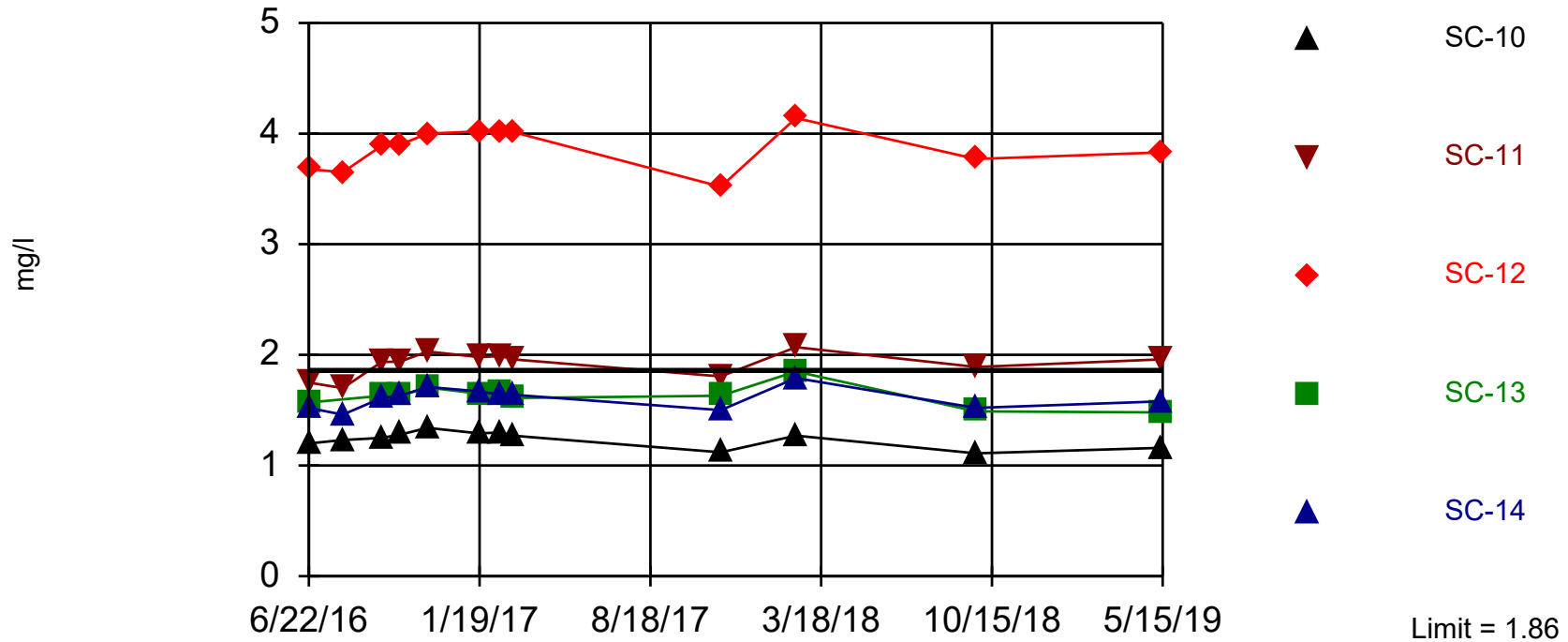
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/3/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/20/2016 | <0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 10/13/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.0063 (D) | 0.006 (D) | 0.0029 (D) | 0.0024 (D) |
| 1/19/2017 | 0.0012 (D) | 0.0014 (D) | 0.0015 (D) | 0.0014 (D) |
| 2/15/2017 | 0.0038 (D) | 0.0038 (D) | 0.0038 (D) | 0.0035 (D) |
| 3/1/2017 | 0.00077 (D) | 0.00076 (D) | 0.00077 (D) | 0.00075 (D) |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.0004 | <0.002 | <0.001 | <0.001 |
| 9/26/2018 | <0.0005 (D1) | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.001231 | 0.001355 | 0.001023 | 0.0009458 |
| Std. Dev. | 0.001884 | 0.001805 | 0.00117 | 0.001032 |
| Upper Lim. | 0.0038 | 0.0038 | 0.0029 | 0.0024 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Exceeds Limit: SC-11, SC-12

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Prediction Limit

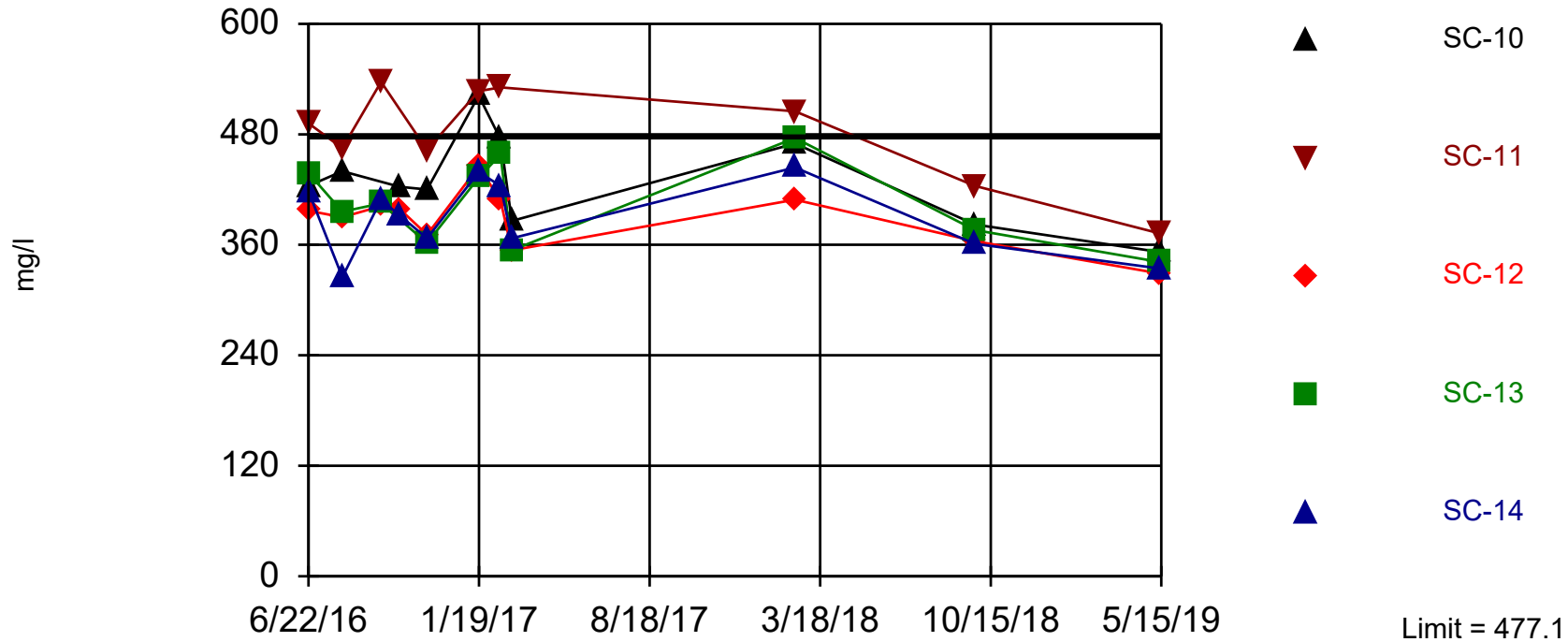
Constituent: Boron, Total (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | SC-14 | SC-11 | SC-10 | SC-13 | SC-12 | CC-1 | FC-3A | FC-3B |
|------------|------------|-----------|-----------|------------|------------|------------|-------------|-----------|-----------|----------|
| 6/22/2016 | 0.976 (T) | 0.901 (T) | 1.52 | 1.75 | 1.2 | 1.57 | 3.68 | 1.07 (D) | | |
| 6/23/2016 | | | | | | | | | 1.31 | |
| 6/27/2016 | | | | | | | | | | 1.09 |
| 8/2/2016 | 0.9285 (D) | 0.902 | | | | | | 1.03 | 1.08 | 1.28 |
| 8/3/2016 | | | 1.46 | 1.7 | 1.23 (D) | | 3.65 | | | |
| 9/19/2016 | 0.932 | 0.937 (D) | | | | | | 1.05 | 1.2 | 1.46 |
| 9/20/2016 | | | 1.61 | 1.935 (D) | 1.25 | 1.63 | 3.89 | | | |
| 10/12/2016 | 0.931 | 0.923 | | | | | | 1.1 | 1.175 (D) | 1.53 |
| 10/13/2016 | | | 1.63 | 1.94 | 1.28 | 1.63 | 3.9 (D) | | | |
| 11/15/2016 | 1.03 | 0.936 | | | | | | 1.12 | 1.185 (D) | 1.68 |
| 11/16/2016 | | | 1.71 | 2.03 | 1.34 | 1.705 (D) | 4 | | | |
| 1/18/2017 | 0.98 | 0.946 | | | | | | 1.125 (D) | 1.19 | 1.66 |
| 1/19/2017 | | | 1.67 | 1.98 | 1.29 | 1.65 | 4.02 | | | |
| 2/14/2017 | 0.972 | 0.934 | | | | | | 1.115 (D) | 1.14 | 1.59 |
| 2/15/2017 | | | 1.64 | 1.99 | 1.3 (D) | 1.67 | 4.02 | | | |
| 2/28/2017 | 0.9495 (D) | 0.956 (D) | | | | | | 1.03 (D) | 1.14 (D) | 1.73 (D) |
| 3/1/2017 | | | 1.64 (D) | 1.96 (DT1) | 1.27 (DT1) | 1.61 (DT1) | 4.015 (DT1) | | | |
| 11/13/2017 | 0.884 | 0.925 (D) | | | | | | 1.04 | 1.05 | 1.69 |
| 11/14/2017 | | | 1.5 | 1.805 (D) | 1.12 | 1.63 | 3.52 | | | |
| 2/14/2018 | 1.05 (D) | 0.957 (D) | | | | | | 1.08 (D) | 1.13 (D) | 1.86 (D) |
| 2/15/2018 | | | 1.79 (DT) | 2.07 (DT) | 1.27 (DT) | 1.85 (DT) | 4.14 (DT) | | | |
| 9/25/2018 | 0.887 (D) | 0.887 (D) | | | | | | 1 (D) | 1.03 (D) | 1.73 (D) |
| 9/26/2018 | | | 1.52 (D) | 1.89 (D) | 1.11 (D) | 1.49 (D) | 3.77 (D) | | | |
| 5/14/2019 | 1.02 | 0.926 | | | | | | 1.07 | 1.04 (D) | 1.3 |
| 5/15/2019 | | | 1.58 (T) | 1.96 (T) | 1.16 (T) | 1.48 (T) | 3.83 (TD) | | | |

Within Limit

Prediction Limit Interwell Parametric



Background Data Summary (based on square transformation): Mean=150493, Std. Dev.=41235, n=47. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.928. Kappa = 1.87 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 5 points to limit.

Prediction Limit

Constituent: Calcium, Total (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

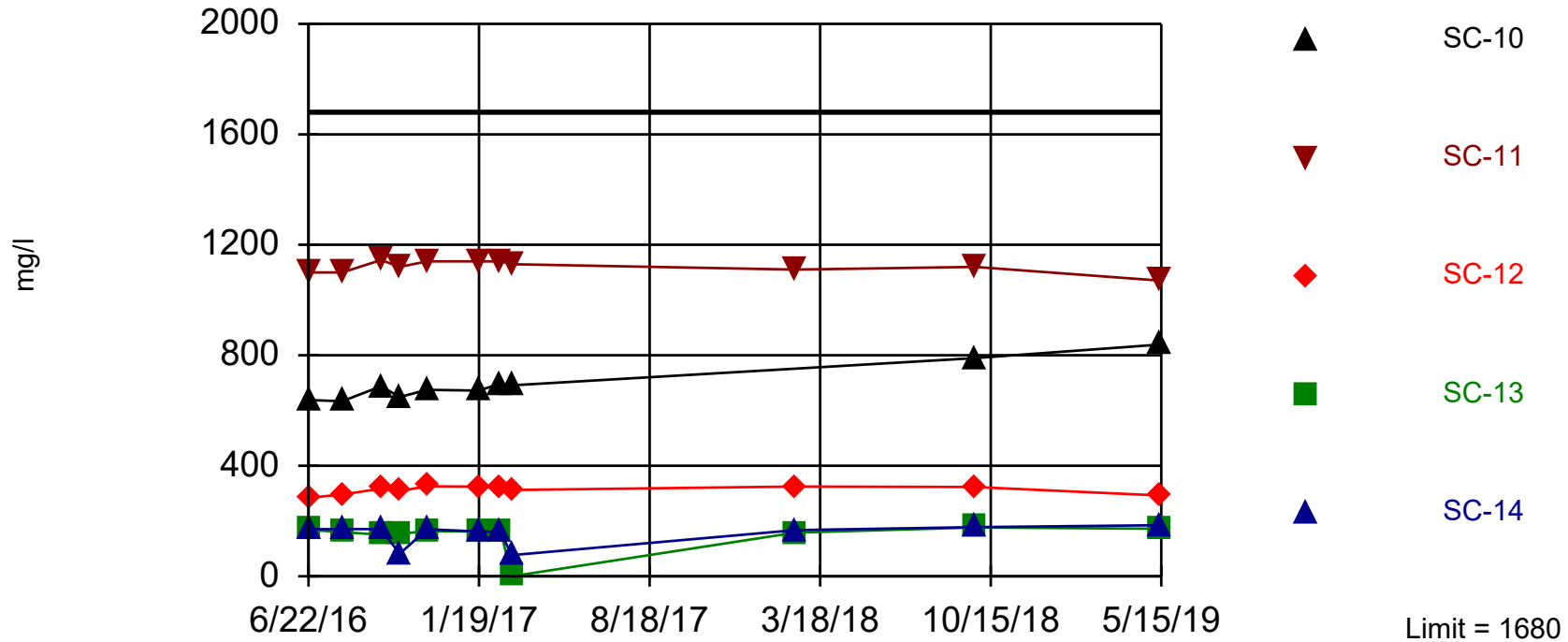
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-10 | FC-2 | SC-11 | SC-12 | CC-1 | SC-14 | SC-13 | FC-3A | FC-3B |
|------------|-------------|-------------|-------------|-----------|-------------|-------------|-----------|-----------|-------------|-----------|
| 6/22/2016 | 404 | 424 (DT1) | 405 (T1D) | 492 (DT1) | 397 (DT1) | 472 (DT1) | 418 (DT1) | 438 (DT1) | | |
| 6/23/2016 | | | | | | | | | 440 (DT1) | |
| 6/27/2016 | | | | | | | | | | 453 (DT1) |
| 8/2/2016 | 410 (DT1) | | 440 (DT1) | | | | | | 417 (DT1) | 412 (DT1) |
| 8/3/2016 | | 440 (DT1) | | 465 (DT1) | 390 (DT1) | | 325 | 396 (DT1) | | |
| 9/19/2016 | 388 (DT1) | | 393.5 (DT1) | | | 483 (DT1) | | | 433 (DT1) | 424 (DT1) |
| 9/20/2016 | | | | 537 (DT1) | 402 (DT1) | | 409 (D) | 405 (D) | | |
| 10/12/2016 | 389 (D) | | 390 (D) | | | 398 (DT1) | | | 398 (DT1) | |
| 10/13/2016 | | 423 (DT1) | | | 399 (DT1) | | 392 (DT1) | | | |
| 11/15/2016 | | | | | | | | | 385 (D) | 331 (D) |
| 11/16/2016 | | 420 (DT1) | | 463 (DT1) | 371 (DT1) | | 367 (DT1) | 362 (DT1) | | |
| 1/18/2017 | 438 (T1D) | | 438 (T1D) | | | | | | 445 (DT1) | 282 (DT1) |
| 1/19/2017 | | 522 (DT1) | | 527 (DT1) | 445 (D) | | 439 (DT1) | 433 (DT1) | | |
| 2/14/2017 | 408 (DT1) | | | | | 431.5 (DT1) | | | 420 (DT1) | 296 (DT1) |
| 2/15/2017 | | 474.5 (DT1) | | 531 (DT1) | 408 (DT1) | | 424 (DT1) | 458 (DT1) | | |
| 2/28/2017 | 376.5 (DT1) | | 381 (DT1) | | | 379 (DT1) | | | 390 (DT1) | 325 (DT1) |
| 3/1/2017 | | 386 (DT1) | | | 354 (DT1) | | 367 (DT1) | 354 (DT1) | | |
| 2/14/2018 | 397 (DT) | | 387 (DT) | | | 392 (DT) | | | 401 (DT) | 246 (DT) |
| 2/15/2018 | | 470 (DT) | | 505 (DT) | 409 (DT) | | 444 (DT) | 476 (DT) | | |
| 9/25/2018 | 370 (D) | | 368 (D) | | | | | | 386 (D) | 233 (D) |
| 9/26/2018 | | 382 (D) | | 424 (D) | 364 (D) | | 361 (D) | 376 (D) | | |
| 5/14/2019 | 337 (T1) | | 344 | | | 340 (T1) | | | 353.5 (T1D) | 196 (T1) |
| 5/15/2019 | | 352 (T1) | | 372 (T1) | 328.5 (T1D) | | 334 (T1) | 341 (T1) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 55 background values. Annual per-constituent alpha = 0.006311. Individual comparison alpha = 0.0006329 (1 of 2). Comparing 5 points to limit.

Prediction Limit

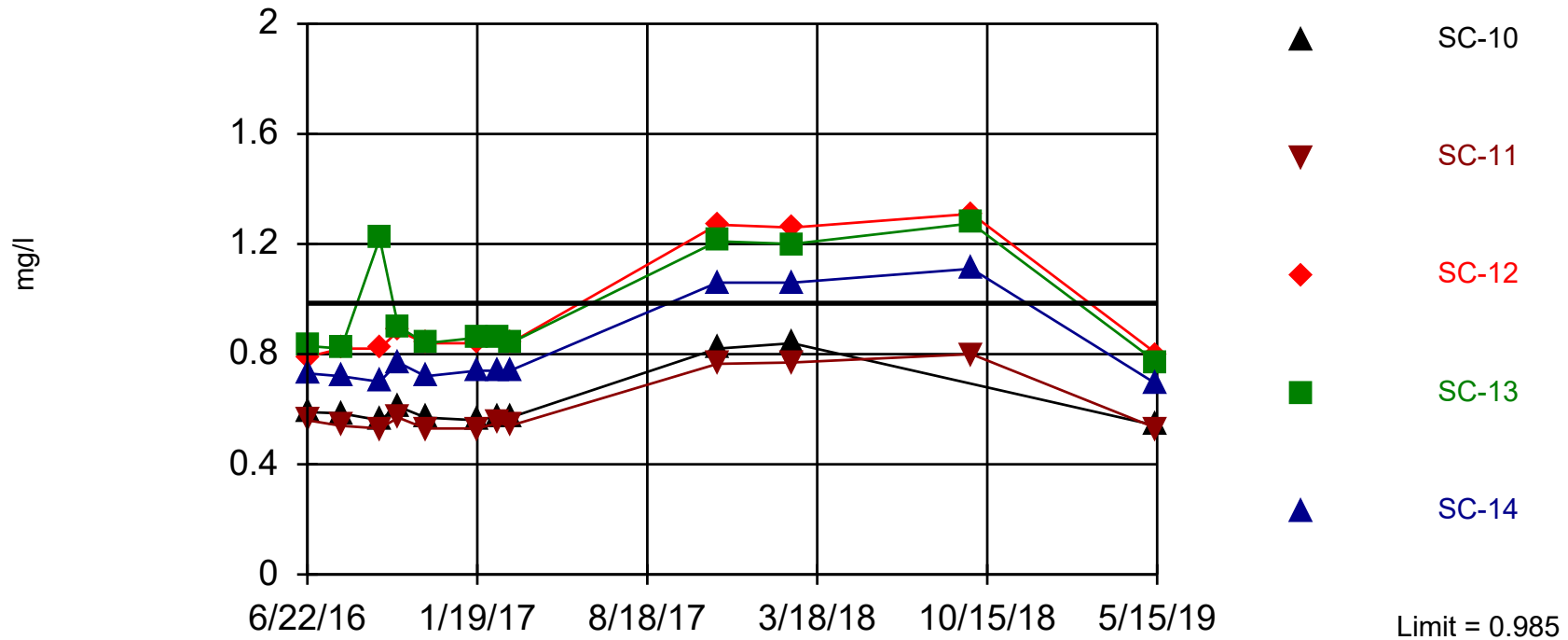
Constituent: Chloride (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-----------|-----------|-----------|-----------|-----------|----------|---------|----------|-----------|----------|
| 6/22/2016 | 772 (D) | 168 (D) | 284 (D) | 1100 (D) | 638 (D) | 1535 (D) | 132 (D) | 170 (D) | | |
| 6/23/2016 | | | | | | | | | 92.5 (D) | |
| 6/27/2016 | | | | | | | | | | 319 (D) |
| 8/2/2016 | 761.5 (D) | | | | | 1540 (D) | 128 (D) | | 91 (D) | 504 (D) |
| 8/3/2016 | | 160 (D) | 296 (D) | 1100 (D) | 633.5 (D) | | | 171 (D) | | |
| 9/19/2016 | 760 (D) | | | | | 1530 (D) | 130 (D) | | 96.3 (D) | 594 (D) |
| 9/20/2016 | | 150 (D) | 317 (D) | 1145 (D) | 688 (D) | | | 171 (D) | | |
| 10/12/2016 | 750 (D) | | | | | 1500 (D) | 124 (D) | | 99.55 (D) | 687 (D) |
| 10/13/2016 | | 154 (D) | 308.5 (D) | 1120 (D) | 649 (D) | | | 81.2 (D) | | |
| 11/15/2016 | 71.2 (D) | | | | | 1550 (D) | 127 (D) | | 101.5 (D) | 676 (D) |
| 11/16/2016 | | 163 (D) | 326 (D) | 1140 (D) | 675 (D) | | | 170 (D) | | |
| 1/18/2017 | 741 (D) | | | | | 1680 (D) | 125 (D) | | 104 (D) | 631 (D) |
| 1/19/2017 | | 162 (D) | 324 (D) | 1140 (D) | 672 (D) | | | 162 (D) | | |
| 2/14/2017 | 738 (D) | | | | | 1515 (D) | 123 (D) | | 107 (D) | 732 (D) |
| 2/15/2017 | | 165 (D) | 320 (D) | 1140 (D) | 697.5 (D) | | | 160 (D) | | |
| 2/28/2017 | 769 (D) | | | | | 1560 (D) | 122 (D) | | 107 (D) | 818 (D) |
| 3/1/2017 | | 0.163 (D) | 312.5 (D) | 1130 (D) | 691 (D) | | | 76.5 (D) | | |
| 2/14/2018 | 756 (D) | | | | | 1530 (D) | 124 (D) | | 115.5 (D) | 652 (D) |
| 2/15/2018 | | 158 (DT) | 325 (TD) | 1110 (DT) | | | | 167 (DT) | | |
| 9/25/2018 | 783.5 (D) | | | | | 1520 (D) | 118 (D) | | 122 (D) | 1210 (D) |
| 9/26/2018 | | 177 (D) | 323 (D) | 1120 (D) | 790 (D) | | | 178 (D) | | |
| 5/14/2019 | 782 (D) | | | | | 1540 (D) | 113 (D) | | 124 (D) | 199 (D) |
| 5/15/2019 | | 172 (D) | 292 (D) | 1070 (D) | 839 (D) | | | 185 (D) | | |

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Fluoride, Total (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

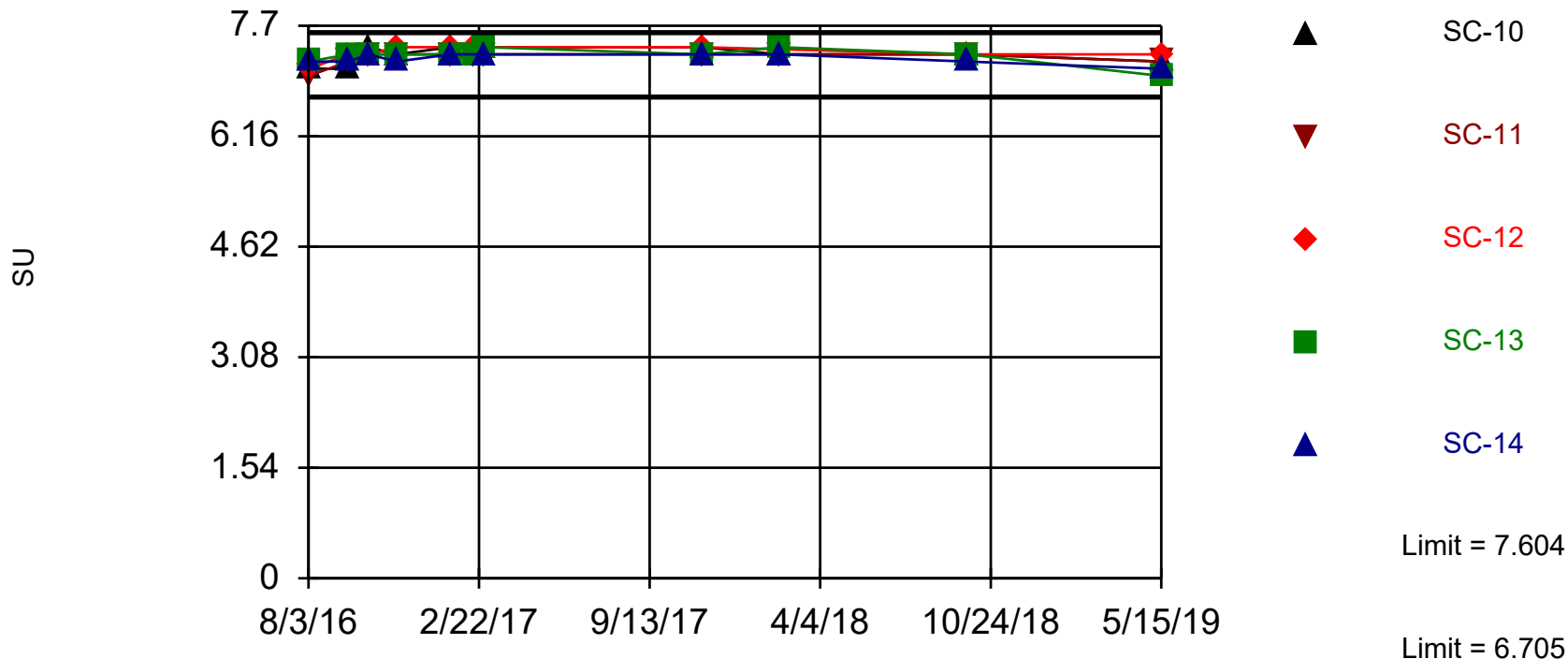
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | SC-14 | CC-1 | FC-2 | FC-3A | FC-3B |
|------------|--------------|-----------|------------|-----------|------------|----------|------------|-----------|------------|-------------|
| 6/22/2016 | 0.12 (T) | 0.83 (T) | 0.79 (T) | 0.56 (T) | 0.59 (T) | 0.73 (T) | 0.215 (TD) | 0.51 (T) | | |
| 6/23/2016 | | | | | | | | | 0.46 (T) | |
| 6/27/2016 | | | | | | | | | | 0.55 |
| 8/2/2016 | 0.06006 (TD) | | | | | | 0.21 (T) | 0.5 (T) | 0.46 (T) | 0.00048 (T) |
| 8/3/2016 | | 0.82 (T) | 0.82 (T) | 0.54 (T) | 0.585 (TD) | 0.72 (T) | | | | |
| 9/19/2016 | 0.13 | | | | | | 0.22 | 0.985 (D) | 0.48 | 0.48 |
| 9/20/2016 | | 1.22 (D) | 0.82 | 0.53 (D) | 0.56 | 0.7 | | | | |
| 10/12/2016 | 0.12 (T) | | | | | | 0.21 (T) | 0.52 (T) | 0.465 (TD) | 0.51 (T) |
| 10/13/2016 | | 0.9 (T) | 0.885 (TD) | 0.57 (T) | 0.61 (T) | 0.77 (T) | | | | |
| 11/15/2016 | 0.12 (T) | | | | | | 0.2 (T) | 0.51 (T) | 0.46 (TD) | 0.46 (T) |
| 11/16/2016 | | 0.84 (D) | 0.84 (T) | 0.53 (T) | 0.57 (T) | 0.72 (T) | | | | |
| 1/18/2017 | 0.13 (T) | | | | | | 0.2 (TD) | 0.52 (T) | 0.46 (T) | 0.56 (T) |
| 1/19/2017 | | 0.86 (T) | 0.84 (T) | 0.53 (T) | 0.56 (T) | 0.74 (T) | | | | |
| 2/14/2017 | 0.13 (T) | | | | | | 0.22 (TD) | 0.55 (T) | 0.48 (T) | 0.51 (T) |
| 2/15/2017 | | 0.86 (T) | | 0.55 (T) | 0.575 (TD) | 0.74 (T) | | | | |
| 2/28/2017 | 0.13 (TD) | | | | | | 0.22 (T) | 0.53 (T) | 0.47 (T) | 0.42 (T) |
| 3/1/2017 | | 0.84 (T) | 0.84 (TD) | 0.54 (T) | 0.57 (T) | 0.74 (T) | | | | |
| 11/13/2017 | 0.2 | | | | | | 0.45 | 0.7 (D) | 0.56 | 0.48 |
| 11/14/2017 | | 1.21 | 1.27 | 0.765 (D) | 0.82 | 1.06 | | | | |
| 2/14/2018 | 0.21 | | | | | | 0.5 | 0.74 | 0.615 (D) | 0.53 |
| 2/15/2018 | | 1.2 | 1.26 | 0.77 | 0.84 | 1.06 | | | | |
| 9/25/2018 | 0.195 (D) | | | | | | 0.48 | 0.73 | 0.62 | 0.52 |
| 9/26/2018 | | 1.275 (D) | 1.31 | 0.8 | | 1.11 | | | | |
| 5/14/2019 | 0.13 | | | | | | 0.2 | 0.51 | 0.44 (D) | 0.69 |
| 5/15/2019 | | 0.77 | 0.8 (D) | 0.53 | 0.54 | 0.69 | | | | |

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.155, Std. Dev.=0.2425, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9582, critical = 0.94. Kappa = 1.852 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 5 points to limit.

Constituent: pH Analysis Run 9/5/2019 4:15 PM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: pH (SU) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

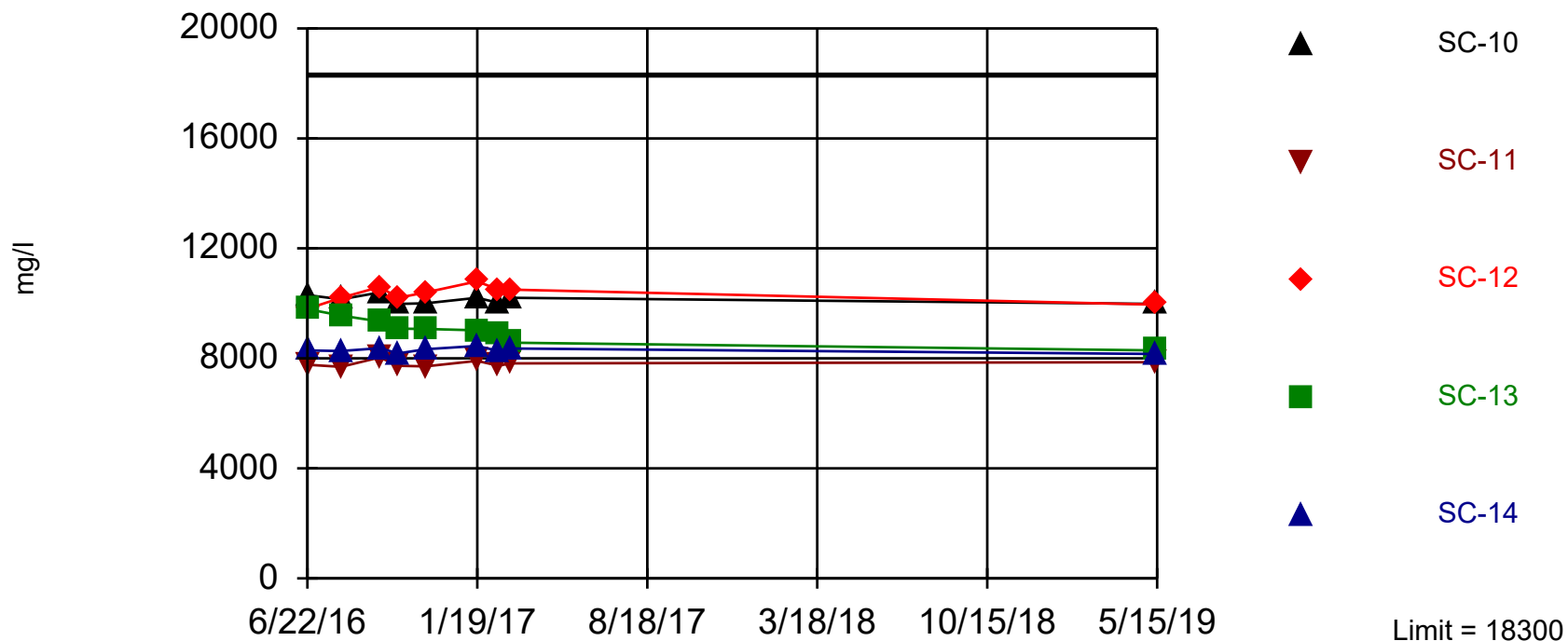
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-3B | FC-3A | CC-1 | FC-2 | SC-12 | SC-11 | SC-10 | SC-14 | SC-13 |
|------------|-------|-------|-------|------|------|-------|-------|---------|-------|-------|
| 8/2/2016 | 7 (D) | 7.2 | 7.5 | 6.8 | 7.2 | | | | | |
| 8/3/2016 | | | | | | 7.1 | 7 | 7.1 (D) | 7.2 | 7.2 |
| 9/19/2016 | 7.1 | 6.9 | 7.5 | 6.7 | 7.2 | | | | | |
| 9/20/2016 | | | | | | 7.3 | 7.2 | 7.1 | 7.2 | 7.3 |
| 10/12/2016 | 7.1 | 7 | 7.5 | 6.9 | 7.2 | | | | | |
| 10/13/2016 | | | | | | 7.3 | 7.3 | 7.4 | 7.3 | 7.3 |
| 11/15/2016 | 7.1 | 7 | 7.6 | 6.9 | 7.3 | | | | | |
| 11/16/2016 | | | | | | 7.4 | 7.3 | 7.3 | 7.2 | 7.3 |
| 1/18/2017 | 7.1 | 7 | 7.6 | 6.9 | 7.3 | | | | | |
| 1/19/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2017 | 7.1 | 7 | 7.6 | 6.9 | 7.3 | | | | | |
| 2/15/2017 | | | | | | 7.4 | 7.3 | 7.4 | | 7.3 |
| 2/28/2017 | 7.2 | 7 | 7.5 | 6.9 | 7.3 | | | | | |
| 3/1/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.4 |
| 11/13/2017 | 7.2 | 7 | 7.6 | 7 | 7.3 | | | | | |
| 11/14/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2018 | 7.1 | 6.8 | 7.6 | 6.9 | 7.3 | | | | | |
| 2/15/2018 | | | | | | | 7.3 | 7.3 | 7.3 | 7.4 |
| 9/25/2018 | 7 | 7.1 | 7.3 | 6.8 | 7.3 | | | | | |
| 9/26/2018 | | | | | | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 5/14/2019 | 7.1 | 7.2 | 7.5 | 6.8 | 7.2 | | | | | |
| 5/15/2019 | | | | | | 7.3 | 7.2 | 7.2 | 7.1 | 7 |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 45 background values. Annual per-constituent alpha = 0.009352. Individual comparison alpha = 0.0009391 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Sulfate (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

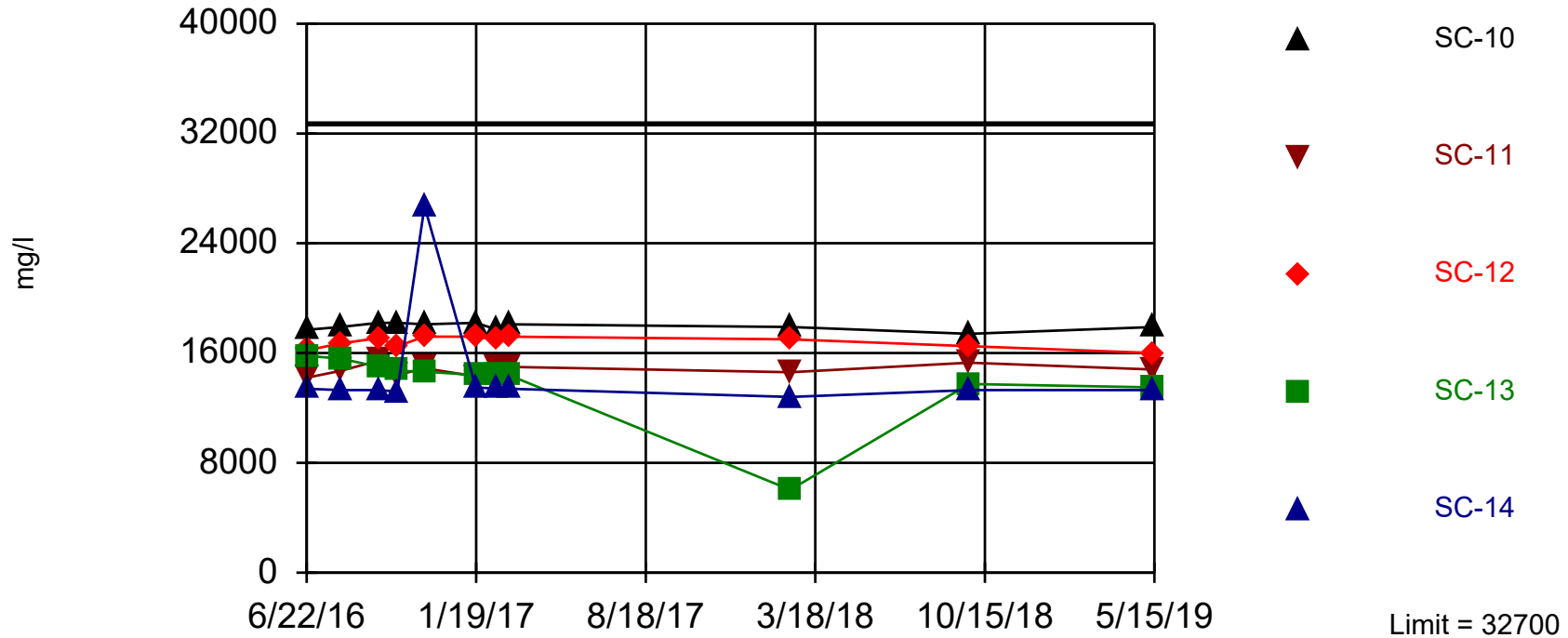
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-10 | SC-13 | SC-14 | SC-11 | FC-2 | SC-12 | FC-3A | FC-3B |
|------------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|----------|----------|
| 6/22/2016 | 13200 (D) | 17200 (D) | 10300 (D) | 9790 (D) | 8290 (D) | 7770 (D) | 7080 (D) | 9800 (D) | | |
| 6/23/2016 | | | | | | | | | 5870 (D) | |
| 6/27/2016 | | | | | | | | | | 4820 (D) |
| 8/2/2016 | 13000 (D) | 17200 (D) | | | | | 7000 (D) | | 5650 (D) | 5240 (D) |
| 8/3/2016 | | | 10150 (D) | 9560 (D) | 8270 (D) | 7690 (D) | | 10200 (D) | | |
| 9/19/2016 | 13000 (D) | 17300 (D) | | | | | 7030 (D) | | 5800 (D) | 5380 (D) |
| 9/20/2016 | | | 10400 (D) | 9340 (D) | 8370 (D) | 8035 (D) | | 10600 (D) | | |
| 10/12/2016 | 12800 (D) | 16600 (D) | | | | | 6910 (D) | | 5635 (D) | 4940 (D) |
| 10/13/2016 | | | 9980 (D) | 9080 (D) | 8180 (D) | 7730 (D) | | 10200 (D) | | |
| 11/15/2016 | 13600 (D) | 17400 (D) | | | | | 6910 | | 5735 (D) | 5370 (D) |
| 11/16/2016 | | | 10000 (D) | 9070 (D) | 8330 (D) | 7710 (D) | | 10400 (D) | | |
| 1/18/2017 | 13700 (D) | 17550 (D) | | | | | 7040 (D) | | 5880 (D) | 4590 (D) |
| 1/19/2017 | | | 10200 (D) | 9020 (D) | 8450 (D) | 7910 (D) | | 10800 (D) | | |
| 2/14/2017 | 13200 (D) | 16800 (D) | | | | | 6840 (D) | | 5720 (D) | 4470 (D) |
| 2/15/2017 | | | 10020 (D) | 8840 (D) | 8270 (D) | 7730 (D) | | 10500 (D) | | |
| 2/28/2017 | 13100 (D) | 17400 (D) | | | | | 6940 (D) | | 5820 (D) | 4640 (D) |
| 3/1/2017 | | | 10200 (D) | 8570 (D) | 8360 (D) | 7820 (D) | | 10500 (D) | | |
| 5/14/2019 | 13200 (D) | 18300 (D) | | | | | 6660 (D) | | 5725 (D) | 4250 (D) |
| 5/15/2019 | | | 9980 (D) | 8290 (D) | 8160 (D) | 7860 (D) | | 9955 (D) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 55 background values. Annual per-constituent alpha = 0.006311. Individual comparison alpha = 0.0006329 (1 of 2). Comparing 5 points to limit.

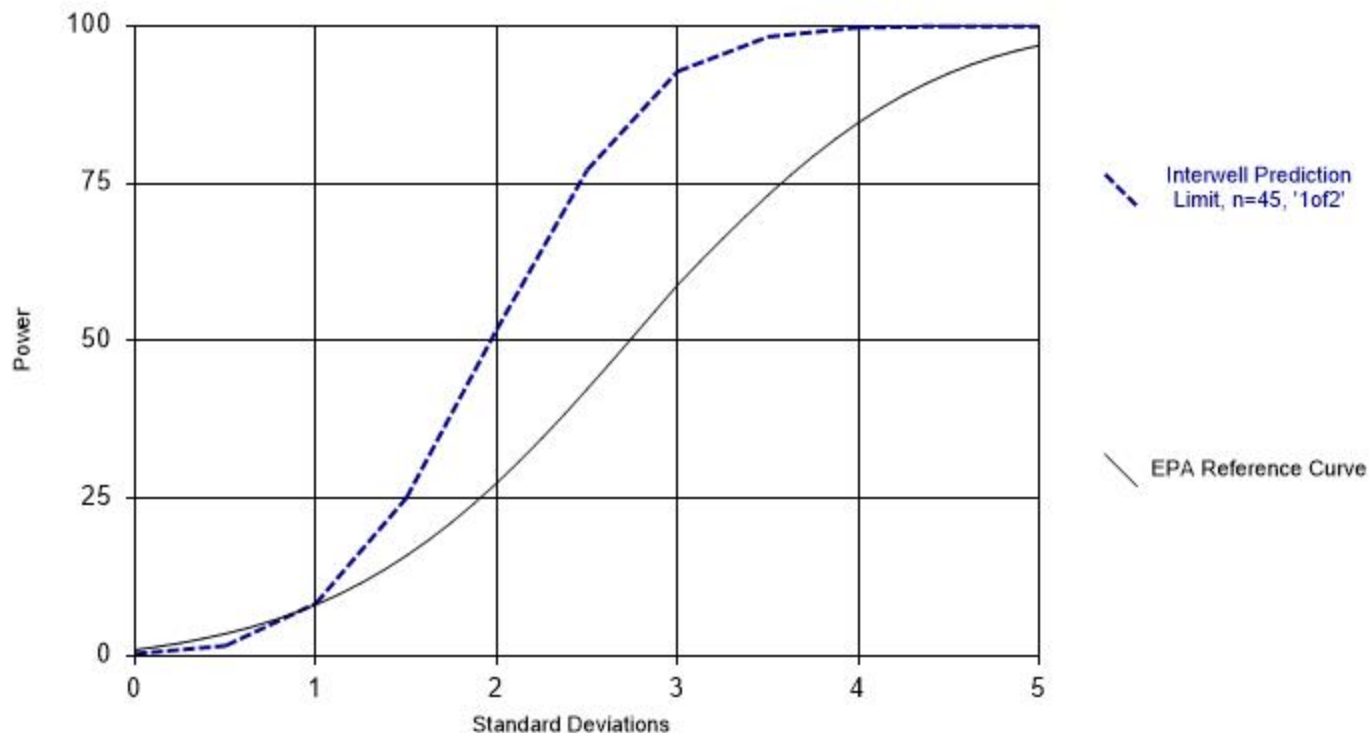
Prediction Limit

Constituent: TDS (mg/l) Analysis Run 9/5/2019 4:17 PM View: CCR Landfill Prediction Intervals

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|----------|-------|
| 6/22/2016 | 22300 | 15800 | 16200 | 14200 | 17700 | 30950 (D) | 11200 | 13400 | | |
| 6/23/2016 | | | | | | | | | 9460 | |
| 6/27/2016 | | | | | | | | | | 7770 |
| 8/2/2016 | 22000 (D) | | | | | 2.1 | 10900 | | 9140 | 9200 |
| 8/3/2016 | | 15600 | 16700 | 14700 | 17900 (D) | | | 13300 | | |
| 9/19/2016 | 21900 | | | | | 30500 | 11250 (D) | | 9320 | 9410 |
| 9/20/2016 | | 15000 | 17100 | 15450 (D) | 18200 | | | 13300 | | |
| 10/12/2016 | 23200 | | | | | 31400 | 11600 | | 9470 (D) | 9450 |
| 10/13/2016 | | 14700 | 16500 (D) | 14400 | 18200 | | | 13200 | | |
| 11/15/2016 | 22100 | | | | | 30600 | 11300 | | 9320 (D) | 9630 |
| 11/16/2016 | | 14650 (D) | 17200 | 14900 | 18100 | | | 26700 | | |
| 1/18/2017 | 22200 | | | | | 31200 (D) | 11200 | | 9180 | 9250 |
| 1/19/2017 | | 14400 | 17200 | 14300 | 18200 | | | 13500 | | |
| 2/14/2017 | 22100 | | | | | 30450 (D) | 11200 | | 9310 | 9350 |
| 2/15/2017 | | 14400 | 17000 | 15000 | 17700 (D) | | | 13400 | | |
| 2/28/2017 | 22100 (D) | | | | | 30800 | 11300 | | 9490 | 9410 |
| 3/1/2017 | | 14400 | 17200 (D) | 15000 | 18100 | | | 13400 | | |
| 2/14/2018 | 22300 | | | | | 32500 | 11000 | | 9400 (D) | 9040 |
| 2/15/2018 | | 6040 | 17000 | 14600 | 17900 | | | 12800 | | |
| 9/25/2018 | 21800 (D) | | | | | 31400 | 10900 | | 9700 | 8970 |
| 9/26/2018 | | 13750 (D) | 16500 | 15300 | 17400 | | | 13300 | | |
| 5/14/2019 | 22300 | | | | | 32700 | 10800 | | 9280 (D) | 7890 |
| 5/15/2019 | | 13500 | 16000 (D) | 14800 | 17900 | | | 13300 | | |

Power Curve



Kappa = 1.876, based on 5 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 9/5/2019 4:22 PM View: CCR Landfill Prediction Intervals
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

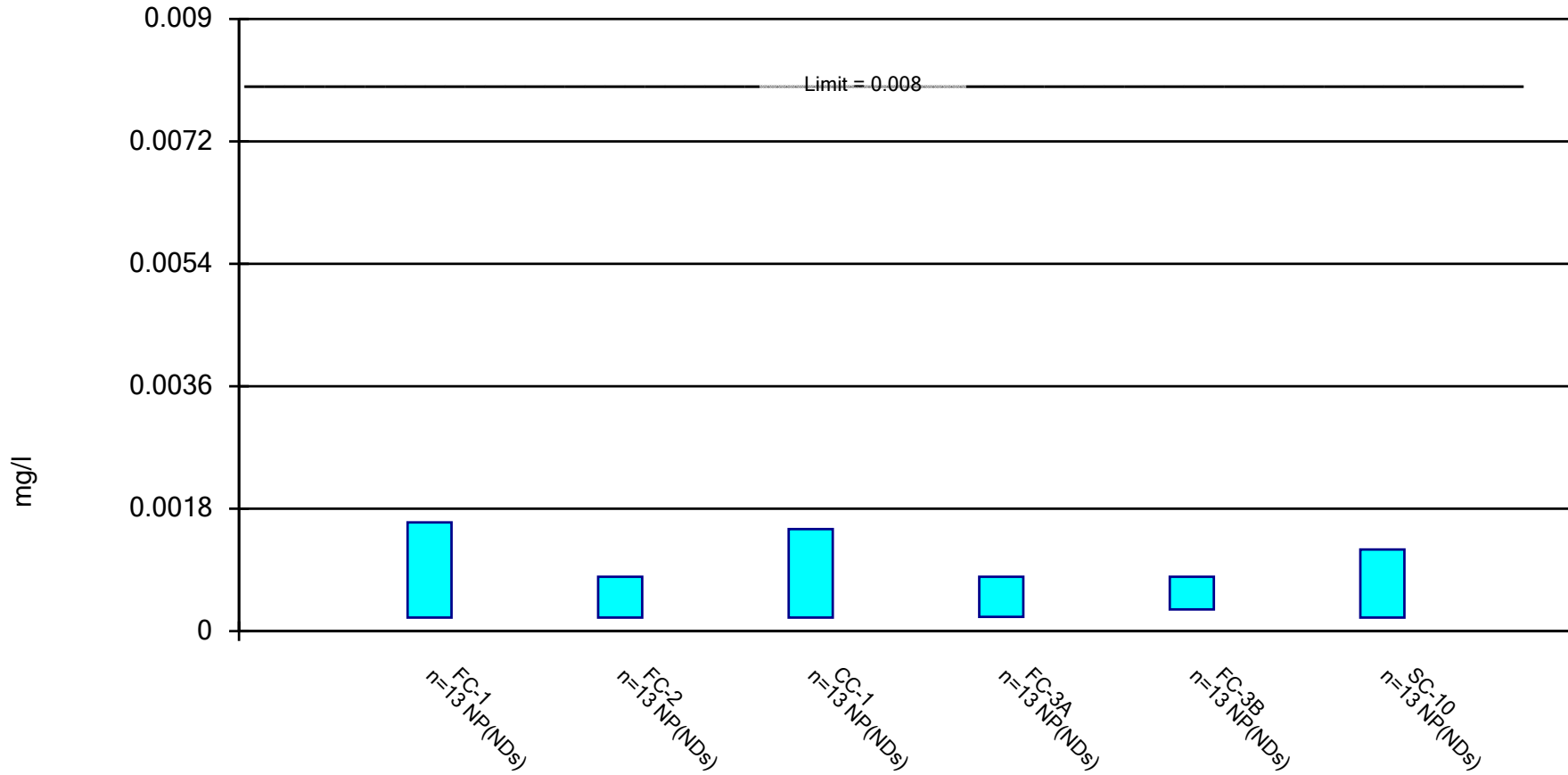
Tolerance Limit

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database Printed 9/10/2019, 10:44 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bq N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|---------------------|
| Antimony, Total (mg/l) | n/a | 0.008 | n/a | n/a | n/a | 60 | 80 | n/a | 0.04607 | NP Inter(NDs) |
| Arsenic, Total (mg/l) | n/a | 0.01192 | n/a | n/a | n/a | 59 | 13.56 | sqrt(x) | 0.05 | Inter |
| Barium, Total (mg/l) | n/a | 2.833 | n/a | n/a | n/a | 60 | 6.667 | n/a | 0.04607 | NP Inter(normal...) |
| Beryllium, Total (mg/l) | n/a | 0.0002 | n/a | n/a | n/a | 60 | 100 | n/a | 0.04607 | NP Inter(NDs) |
| Cadmium, Total (mg/l) | n/a | 0.005 | n/a | n/a | n/a | 60 | 95 | n/a | 0.04607 | NP Inter(NDs) |
| Chromium, Total (mg/l) | n/a | 0.01 | n/a | n/a | n/a | 60 | 75 | n/a | 0.04607 | NP Inter(NDs) |
| Cobalt, Total (mg/l) | n/a | 0.0139 | n/a | n/a | n/a | 58 | 82.76 | n/a | 0.05105 | NP Inter(NDs) |
| Fluoride, Total (mg/l) | n/a | 0.985 | n/a | n/a | n/a | 60 | 0 | n/a | 0.04607 | NP Inter(normal...) |
| Lead, Total (mg/l) | n/a | 0.009 | n/a | n/a | n/a | 60 | 48.33 | n/a | 0.04607 | NP Inter(normal...) |
| Lithium, Total (mg/l) | n/a | 1.16 | n/a | n/a | n/a | 60 | 0 | n/a | 0.04607 | NP Inter(normal...) |
| Mercury, Total (mg/l) | n/a | 0.000024 | n/a | n/a | n/a | 59 | 0 | n/a | 0.04849 | NP Inter(normal...) |
| Molybdenum, Total (mg/l) | n/a | 0.0201 | n/a | n/a | n/a | 60 | 46.67 | n/a | 0.04607 | NP Inter(normal...) |
| Rad 226+228 (pCi/L) | n/a | 5.023 | n/a | n/a | n/a | 60 | 0 | x^(1/3) | 0.05 | Inter |
| Selenium, Total (mg/l) | n/a | 0.1985 | n/a | n/a | n/a | 60 | 1.667 | n/a | 0.04607 | NP Inter(normal...) |
| Thallium, Total (mg/l) | n/a | 0.0063 | n/a | n/a | n/a | 60 | 63.33 | n/a | 0.04607 | NP Inter(NDs) |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

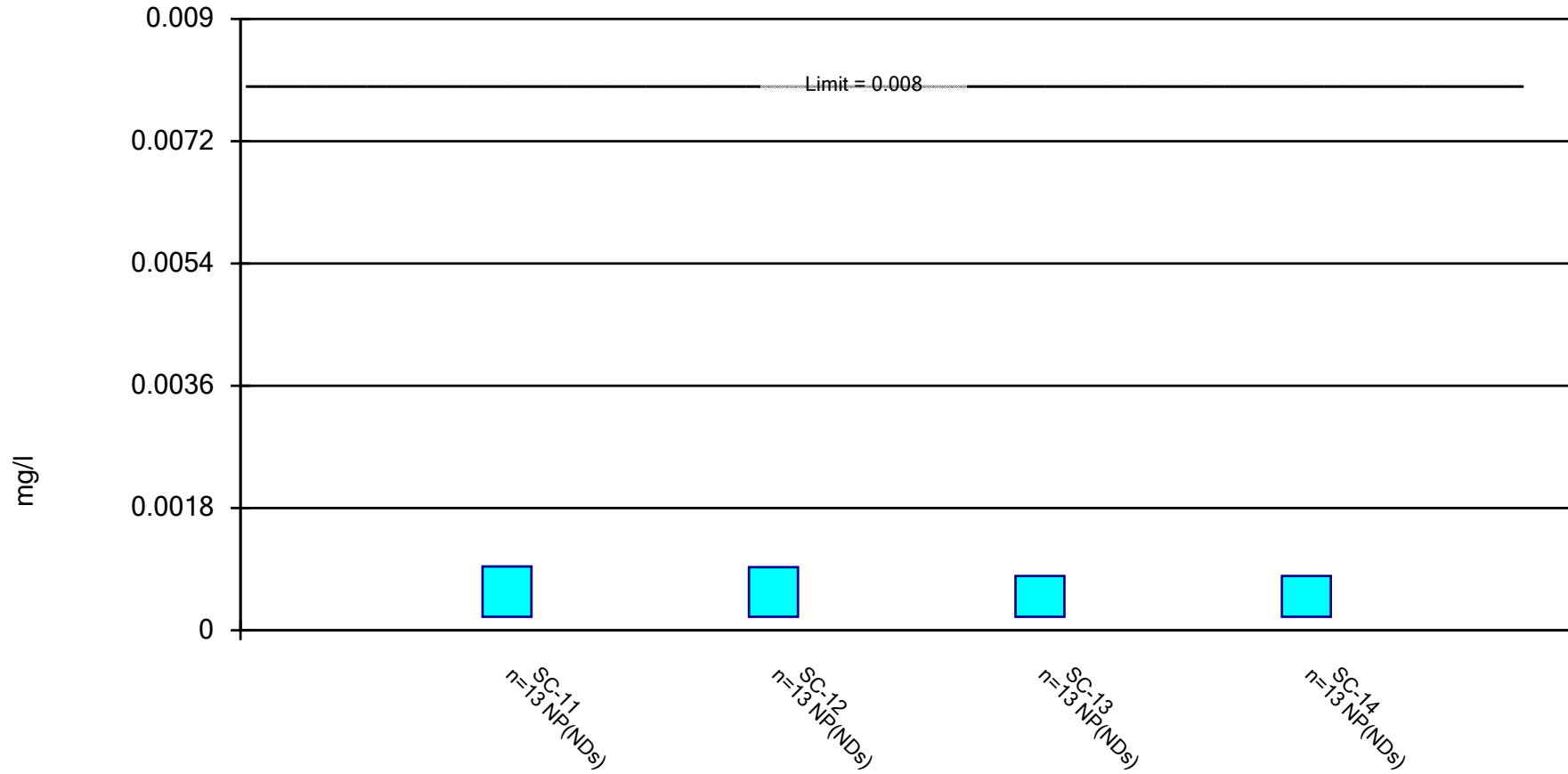
Constituent: Antimony, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 (D) | | | <0.0002 |
| 6/23/2016 | | | | 0.00021 | | |
| 6/27/2016 | | | | | 0.00065 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | <0.0002 | <0.0002 | 0.00061 | |
| 8/3/2016 | | | | | | <0.0002 (D) |
| 9/19/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | |
| 9/20/2016 | | | | | | <0.0002 (D1) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | 0.0004 (D) | 0.00026 (D) | 0.00032 (D) | |
| 10/13/2016 | | | | | | 0.00025 (D) |
| 11/15/2016 | 0.0016 (D) | <0.0002 (D1) | 0.0015 (D) | 0.0015 (D) | 0.0015 (D) | |
| 11/16/2016 | | | | | | 0.0012 (D) |
| 1/18/2017 | <0.0005 (D1P) | <0.0005 (D1P) | <0.0005 (D1) | 0.00055 (D) | <0.0005 (D1) | |
| 1/19/2017 | | | | | | <0.0005 (D1) |
| 2/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | 0.00066 (D) | |
| 2/15/2017 | | | | | | 0.00054 (D) |
| 2/28/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 3/1/2017 | | | | | | <0.0005 (D1) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | <0.0005 (D1) |
| 2/14/2018 | <0.008 | <0.0008 | <0.008 | <0.0008 (D) | <0.0008 | |
| 2/15/2018 | | | | | | <0.008 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/26/2018 | | | | | | <0.0005 |
| 5/14/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 5/15/2019 | | | | | | <0.0005 (D1D) |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 9/25/2019 | | | | | | <0.0005 (D1D) |
| Mean | 0.001069 | 0.0004077 | 0.001077 | 0.0005169 | 0.0005954 | 0.001045 |
| Std. Dev. | 0.002114 | 0.0001891 | 0.002106 | 0.0003428 | 0.0003102 | 0.002106 |
| Upper Lim. | 0.0016 | 0.0008 | 0.0015 | 0.0008 | 0.0008 | 0.0012 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.00021 | 0.00032 | 0.0002 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

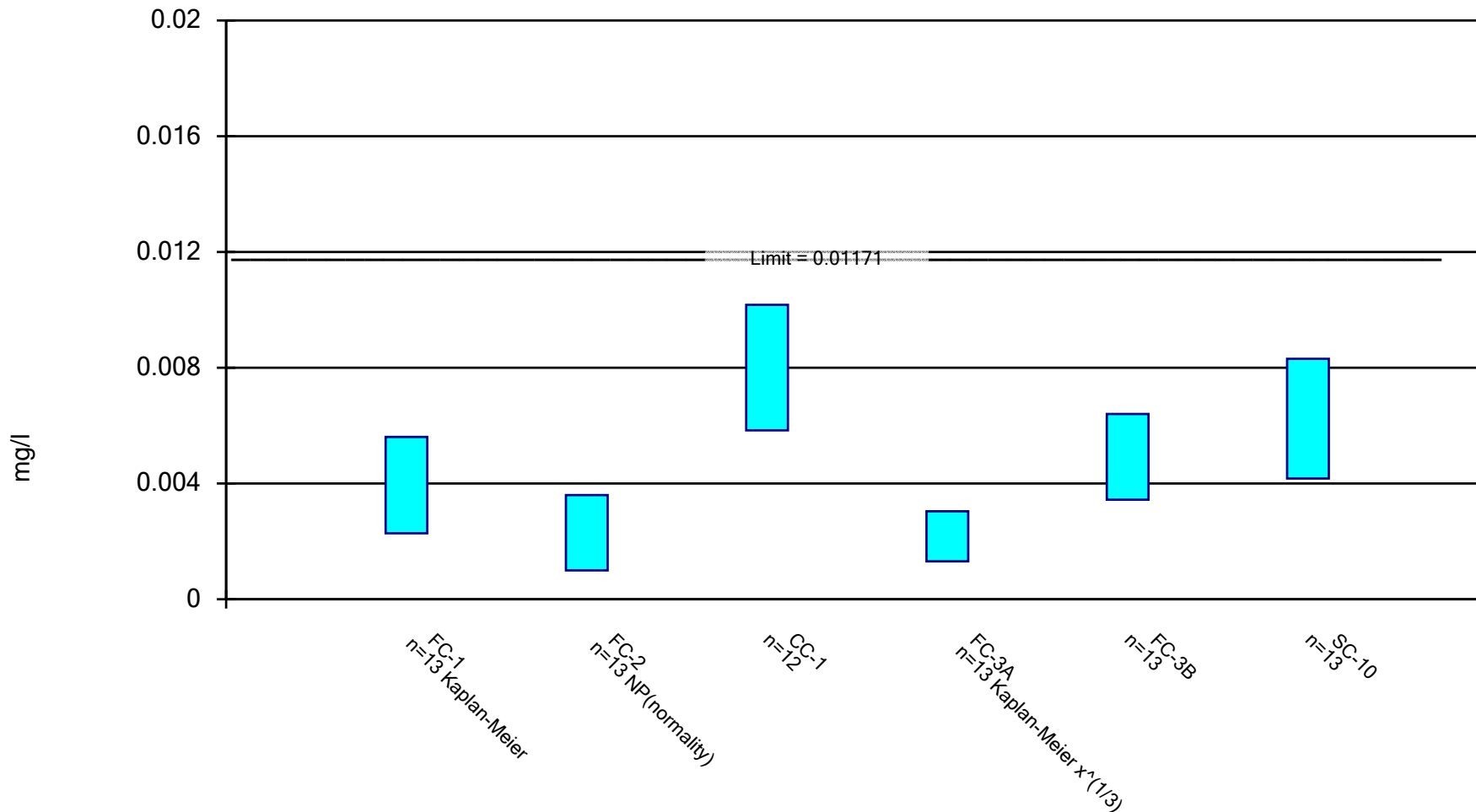
Constituent: Antimony, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 | 0.00021 |
| 8/3/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/20/2016 | <0.0002 (D1) | <0.0002 (D1) | 0.0002 (D) | 0.00022 (D) |
| 10/13/2016 | 0.0002 (D) | 0.00023 (D) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.00094 (D) | 0.00093 (D) | 0.00059 (D) | <0.0002 (D1) |
| 1/19/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 3/1/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0071 (DT) | <0.0005 (D1) |
| 2/15/2018 | <0.008 | <0.008 | <0.0008 | <0.0008 |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/24/2019 | | <0.0005 (D1D) | | |
| 9/25/2019 | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.001018 | 0.00102 | 0.0009454 | 0.00041 |
| Std. Dev. | 0.002108 | 0.002107 | 0.001858 | 0.0001865 |
| Upper Lim. | 0.00094 | 0.00093 | 0.0008 | 0.0008 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

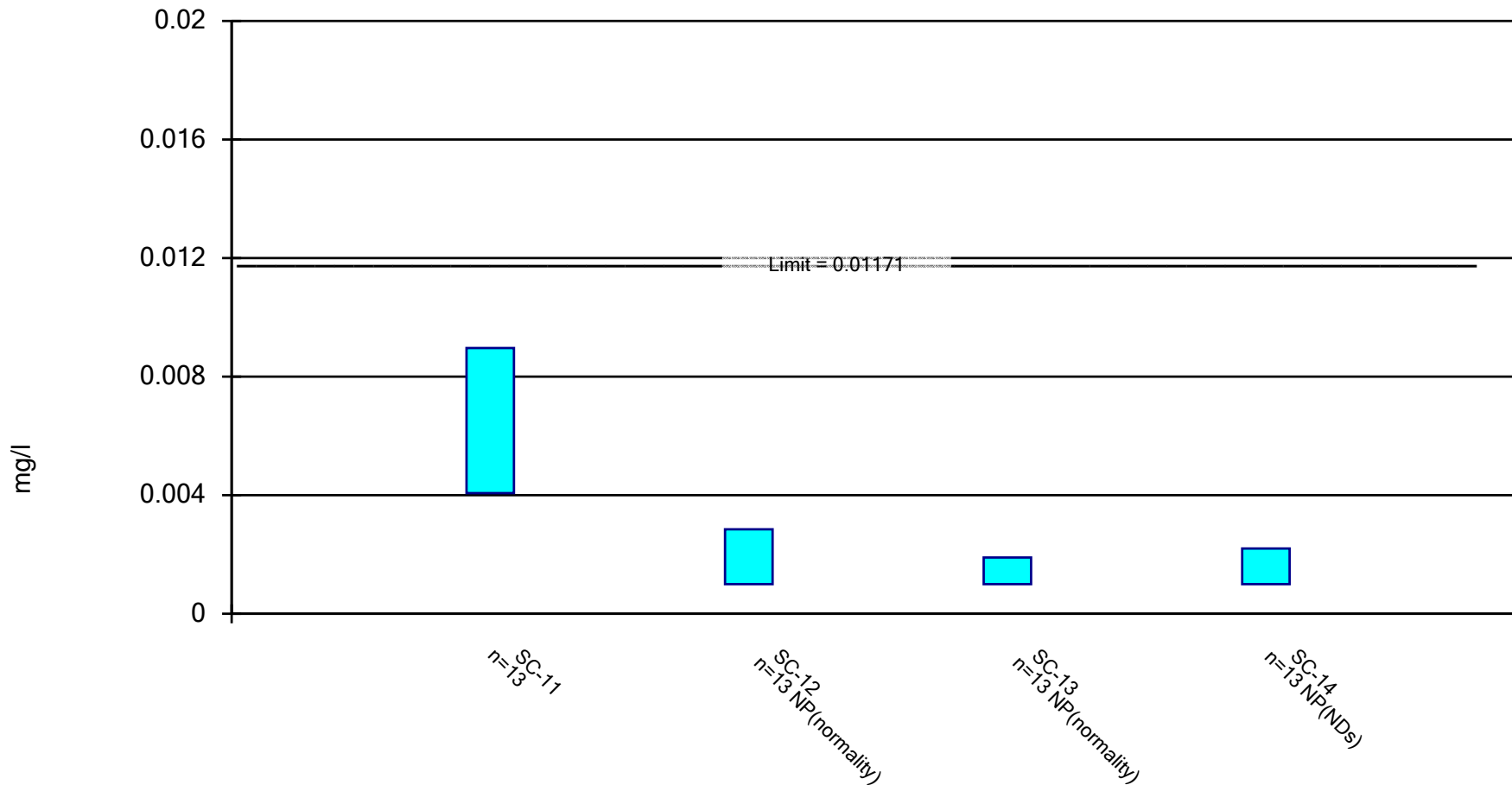
Constituent: Arsenic, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|--------------|-------------|--------------|------------|-------------|
| 6/22/2016 | 0.0042 | 0.0025 | 0.0109 (D) | | | 0.0083 |
| 6/23/2016 | | | | 0.0031 | | |
| 6/27/2016 | | | | | 0.0026 | |
| 8/2/2016 | 0.0025 (D) | 0.0016 | 0.0105 | 0.0021 | 0.0031 | |
| 8/3/2016 | | | | | | 0.00625 (D) |
| 9/19/2016 | 0.0094 (D) | 0.0036 (D) | 0.0089 (D) | 0.0029 (D) | 0.0051 (D) | |
| 9/20/2016 | | | | | | 0.0073 (D) |
| 10/12/2016 | 0.0023 (D) | <0.001 (D1) | 0.0071 (D) | 0.001325 (D) | 0.0056 (D) | |
| 10/13/2016 | | | | | | 0.0051 (D) |
| 11/15/2016 | 0.0036 (D) | <0.001 (D1) | 0.0054 (D) | 0.0018 (D) | 0.007 (D) | |
| 11/16/2016 | | | | | | 0.003 (D) |
| 1/18/2017 | 0.0061 (D) | 0.0011 (D) | 0.00255 (D) | <0.001 (D1) | 0.0057 (D) | |
| 1/19/2017 | | | | | | 0.0039 (D) |
| 2/14/2017 | <0.001 (D1) | <0.001 (D1) | 0.00495 (D) | <0.001 (D1) | 0.004 (D) | |
| 2/15/2017 | | | | | | 0.0054 (D) |
| 2/28/2017 | 0.00625 (D) | 0.0076 (D) | 0.011 (D) | 0.0069 (D) | 0.0081 (D) | |
| 3/1/2017 | | | | | | 0.0126 (D) |
| 11/13/2017 | 0.0041 (D) | 0.0025 (D) | 0.008 (D) | 0.0022 (D) | 0.0064 (D) | |
| 11/14/2017 | | | | | | 0.0095 (D) |
| 2/14/2018 | <0.002 | <0.001 | | 0.00115 (D) | 0.0026 | |
| 2/15/2018 | | | | | | 0.0022 |
| 9/25/2018 | 0.005 (D) | 0.0014 | 0.0115 | 0.003 | 0.0074 | |
| 9/26/2018 | | | | | | 0.0068 |
| 5/14/2019 | 0.0029 | 0.0013 (D) | 0.0072 (D) | 0.0017 (D) | 0.002 (D) | |
| 5/15/2019 | | | | | | 0.0057 (D) |
| 9/24/2019 | 0.00295 (D) | <0.001 (D1D) | 0.0081 (D) | 0.0016 (D) | 0.0044 (D) | |
| 9/25/2019 | | | | | | 0.0051 (D) |
| Mean | 0.004023 | 0.002046 | 0.008008 | 0.00229 | 0.004923 | 0.006242 |
| Std. Dev. | 0.002241 | 0.001853 | 0.002762 | 0.001567 | 0.001992 | 0.002779 |
| Upper Lim. | 0.005612 | 0.0036 | 0.01018 | 0.003042 | 0.006404 | 0.008308 |
| Lower Lim. | 0.00228 | 0.001 | 0.005841 | 0.001314 | 0.003442 | 0.004176 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

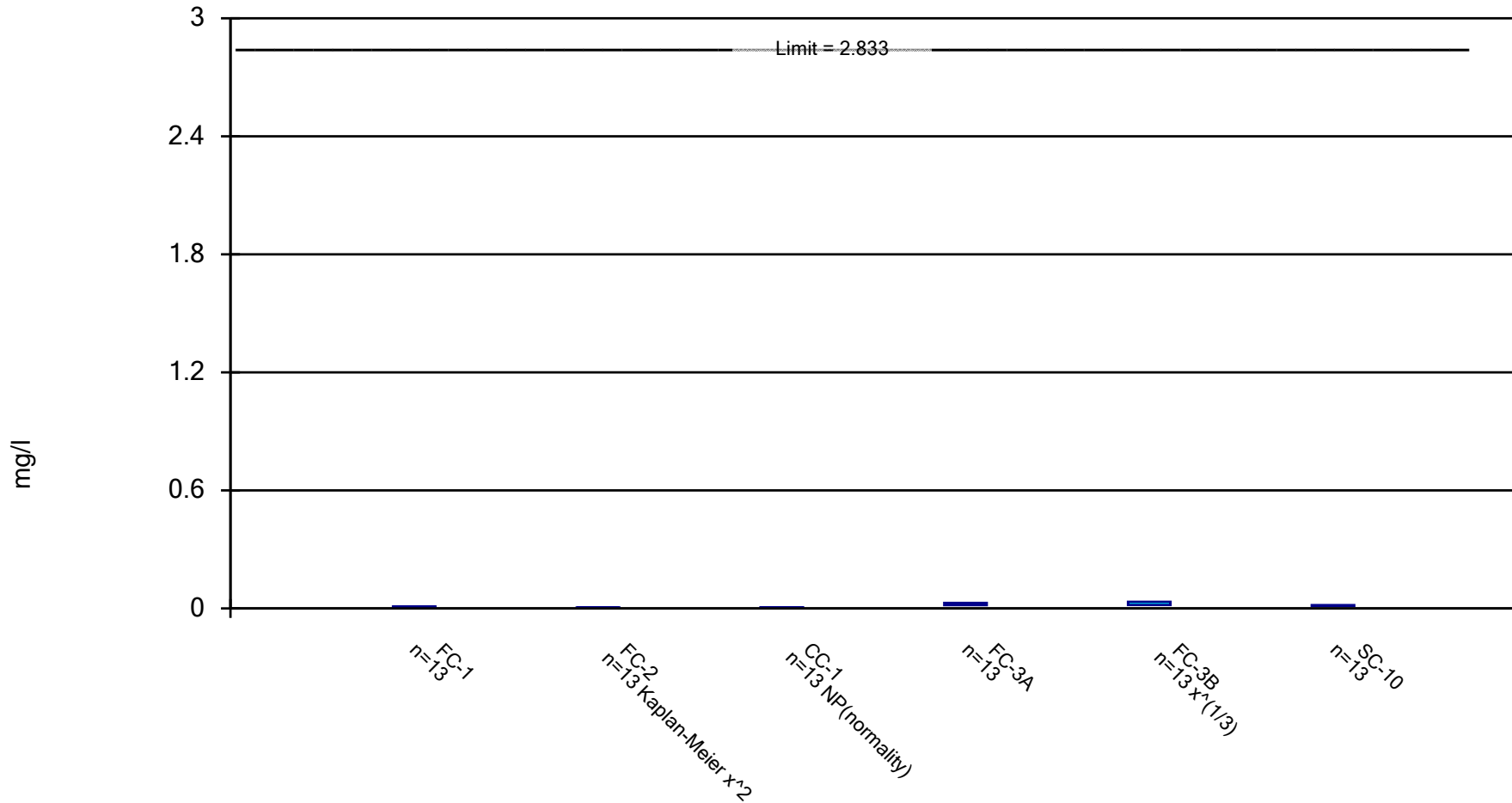
Constituent: Arsenic, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|--------------|-------------|--------------|
| 6/22/2016 | 0.0093 | 0.0017 | 0.0019 | 0.0022 |
| 8/3/2016 | 0.0095 | 0.0014 | <0.001 | <0.001 |
| 9/20/2016 | 0.00825 (D) | 0.0026 (D) | 0.0013 (D) | <0.001 (D1) |
| 10/13/2016 | 0.0062 (D) | 0.00285 (D) | 0.0015 (D) | <0.001 (D1) |
| 11/16/2016 | <0.001 (D1) | 0.0016 (D) | <0.001 (D) | <0.001 (D1) |
| 1/19/2017 | 0.0033 (D) | <0.001 (D1) | <0.001 (D1) | <0.001 (D1) |
| 2/15/2017 | 0.0046 (D) | <0.001 (D1) | <0.001 (D1) | <0.001 (D) |
| 3/1/2017 | 0.0111 (D) | 0.0067 (D) | 0.0057 (D) | 0.003 (D) |
| 11/14/2017 | 0.0089 (D) | 0.0027 (D) | 0.0018 (D) | 0.0011 (D) |
| 2/15/2018 | 0.0021 | 0.0011 | <0.001 | <0.001 |
| 9/26/2018 | 0.0104 | 0.0013 | <0.001 (D) | <0.001 |
| 5/15/2019 | 0.0051 (D) | 0.00135 (D) | 0.001 (D) | <0.001 (D) |
| 9/24/2019 | | <0.001 (D1D) | | |
| 9/25/2019 | 0.005 (D) | | 0.00105 (D) | <0.001 (D1D) |
| Mean | 0.006519 | 0.002023 | 0.001558 | 0.001254 |
| Std. Dev. | 0.003289 | 0.001554 | 0.001286 | 0.00062 |
| Upper Lim. | 0.008965 | 0.00285 | 0.0019 | 0.0022 |
| Lower Lim. | 0.004074 | 0.001 | 0.001 | 0.001 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

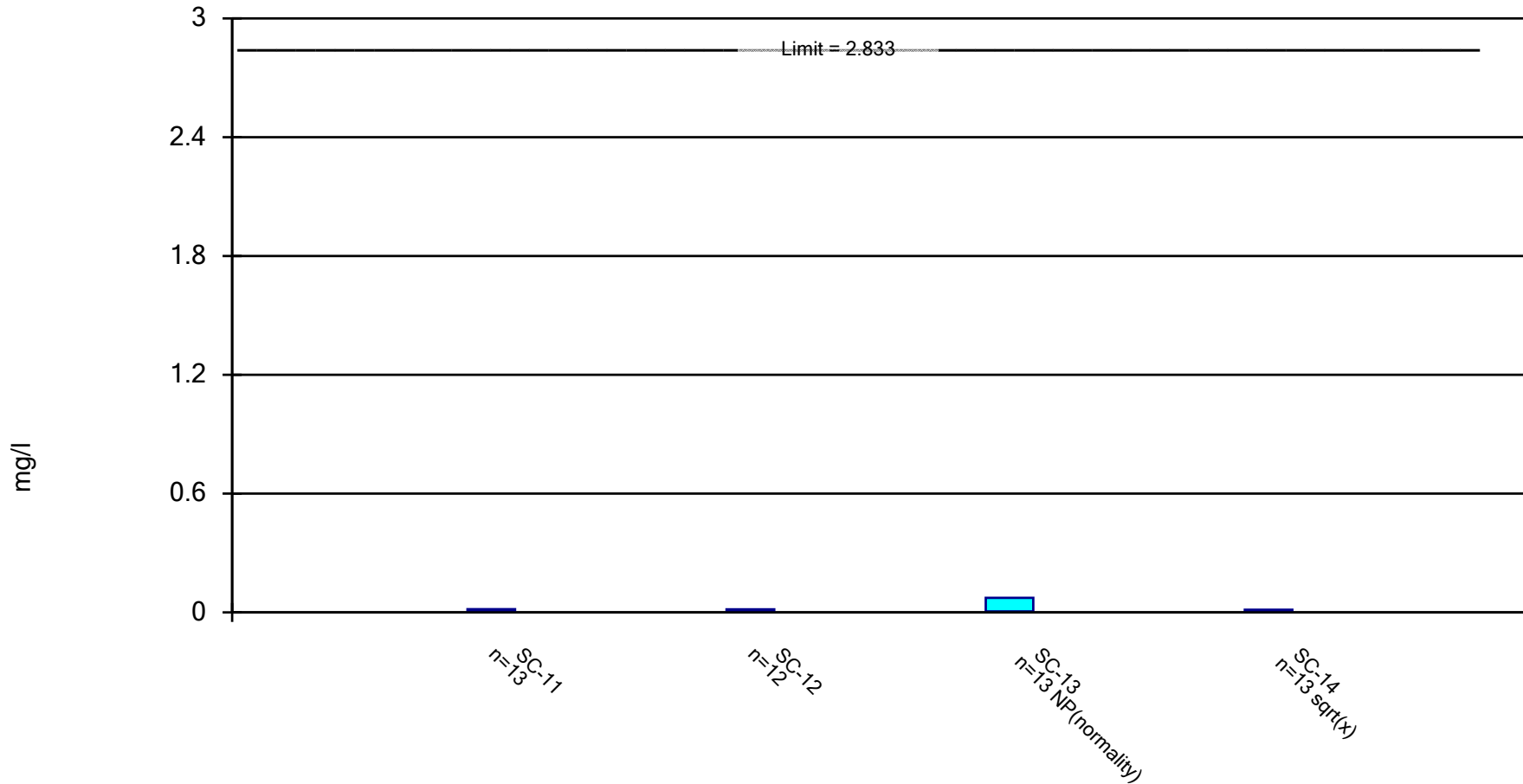
Constituent: Barium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|-------------|--------------|-------------|------------|------------|
| 6/22/2016 | 0.00954 | 0.00503 | 2.83285 (D) | | | 0.0184 |
| 6/23/2016 | | | | 0.034 | | |
| 6/27/2016 | | | | | 0.0336 | |
| 8/2/2016 | 0.008725 (D) | <0.005 | 0.00512 | 0.0202 | 0.0253 | |
| 8/3/2016 | | | | | | 0.0138 (D) |
| 9/19/2016 | 0.00928 | 0.00525 (D) | 0.00542 | 0.0218 | 0.0183 | |
| 9/20/2016 | | | | | | 0.013 |
| 10/12/2016 | 0.00905 | 0.00536 | 0.00593 | 0.03735 (D) | 0.0184 | |
| 10/13/2016 | | | | | | 0.0141 |
| 11/15/2016 | 0.0102 | 0.00516 | 0.00608 | 0.01735 (D) | 0.0652 | |
| 11/16/2016 | | | | | | 0.0178 |
| 1/18/2017 | 0.00929 | 0.00539 | 0.005675 (D) | 0.0164 | 0.0244 | |
| 1/19/2017 | | | | | | 0.0216 |
| 2/14/2017 | 0.01 | 0.00566 | 0.006005 (D) | 0.0167 | 0.023 | |
| 2/15/2017 | | | | | | 0.0145 (D) |
| 2/28/2017 | 0.009 (D) | 0.0054 | <0.005 | 0.0148 | 0.0208 | |
| 3/1/2017 | | | | | | 0.0105 |
| 11/13/2017 | 0.0082 (D) | 0.00435 (D) | 0.004 (D) | 0.0259 (D) | 0.0154 (D) | |
| 11/14/2017 | | | | | | 0.014 (D) |
| 2/14/2018 | 0.0105 | <0.01 | <0.01 | 0.01205 (D) | 0.0196 | |
| 2/15/2018 | | | | | | 0.0124 |
| 9/25/2018 | 0.00665 (D) | 0.004 | 0.0039 | 0.021 | 0.037 | |
| 9/26/2018 | | | | | | 0.0165 |
| 5/14/2019 | 0.0073 | 0.0043 (D) | 0.0044 (D) | 0.0265 (D) | 0.0146 (D) | |
| 5/15/2019 | | | | | | 0.0168 (D) |
| 9/24/2019 | 0.0073 (D) | 0.0056 (D) | 0.0041 (D) | 0.0276 (D) | 0.0268 (D) | |
| 9/25/2019 | | | | | | 0.0124 (D) |
| Mean | 0.008849 | 0.004846 | 0.2224 | 0.02243 | 0.02634 | 0.01506 |
| Std. Dev. | 0.001186 | 0.0008747 | 0.7843 | 0.007529 | 0.0134 | 0.003023 |
| Upper Lim. | 0.00973 | 0.0054 | 0.00608 | 0.02803 | 0.03372 | 0.01731 |
| Lower Lim. | 0.007967 | 0.004584 | 0.0039 | 0.01684 | 0.01761 | 0.01281 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

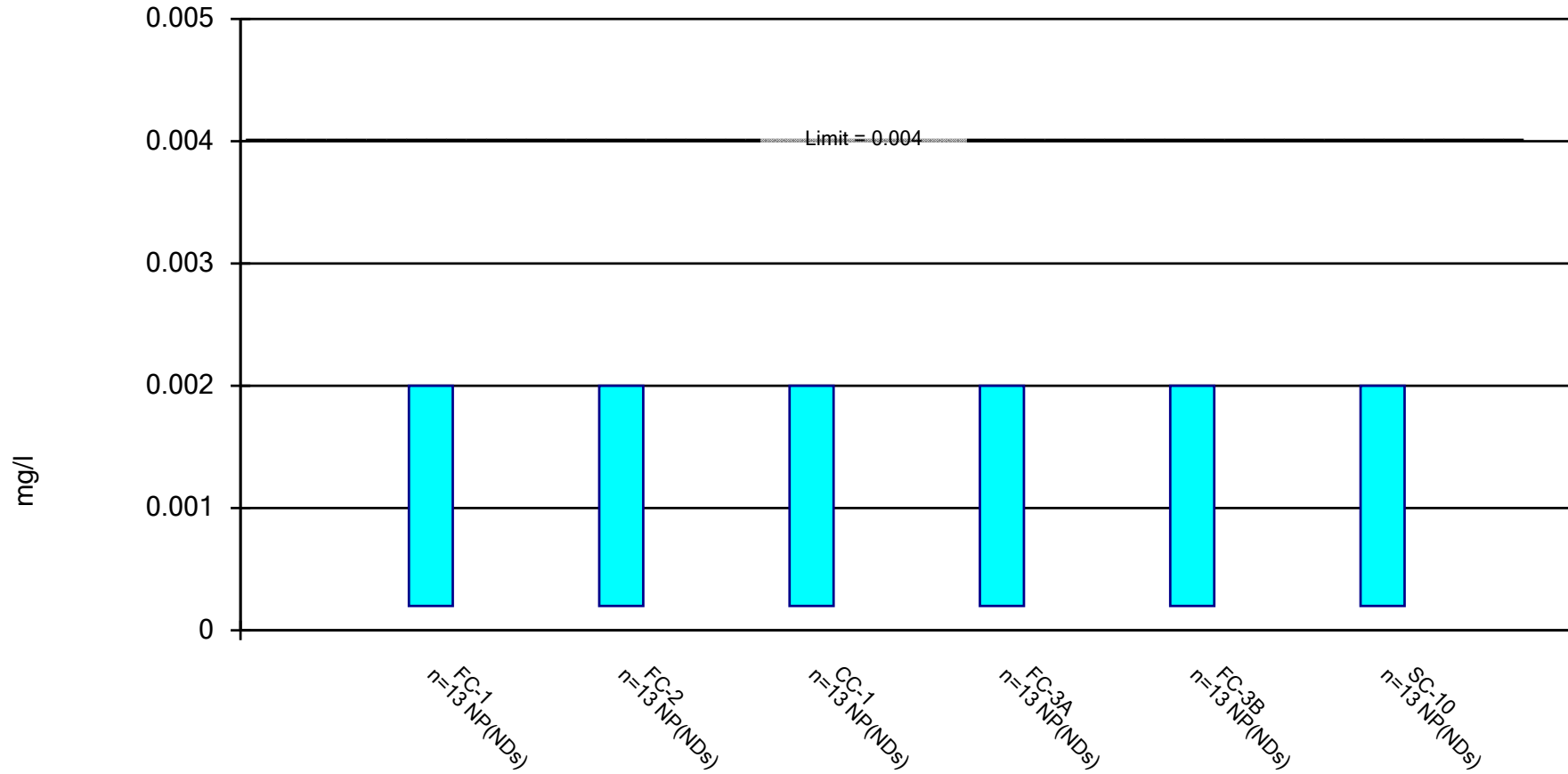
Constituent: Barium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|--------------|-------------|--------------|------------|
| 6/22/2016 | 0.017 | 0.0112 | 0.00979 | 0.024 |
| 8/3/2016 | 0.0165 | 0.0133 | 0.00703 | 0.0131 |
| 9/20/2016 | 0.009275 (D) | | 0.0736 | 0.0109 |
| 10/13/2016 | 0.0225 | 0.01415 (D) | 0.00797 | 0.0163 |
| 11/16/2016 | 0.016 | 0.0178 | 4.629645 (D) | 0.0136 |
| 1/19/2017 | 0.0117 | 0.0108 | 0.0075 | 0.00905 |
| 2/15/2017 | 0.0156 | 0.0127 | 0.00742 | 0.00766 |
| 3/1/2017 | 0.00732 | 0.00781 (D) | 0.00603 | 0.0063 |
| 11/14/2017 | 0.01395 (D) | 0.0063 (D) | 0.006 (D) | 0.0052 (D) |
| 2/15/2018 | 0.0089 | 0.0079 | <0.01 | <0.01 |
| 9/26/2018 | 0.0099 | 0.0245 | 0.00575 (D) | 0.0057 |
| 5/15/2019 | 0.0086 (D) | 0.00755 (D) | 0.0046 (D) | 0.005 (D) |
| 9/24/2019 | | 0.007 (D) | | |
| 9/25/2019 | 0.0099 (D) | | 0.0168 (D) | 0.0049 (D) |
| Mean | 0.01286 | 0.01175 | 0.3682 | 0.009747 |
| Std. Dev. | 0.004455 | 0.005306 | 1.281 | 0.005743 |
| Upper Lim. | 0.01617 | 0.01591 | 0.0736 | 0.01328 |
| Lower Lim. | 0.009545 | 0.007588 | 0.005 | 0.005687 |

Non-Parametric Confidence Interval

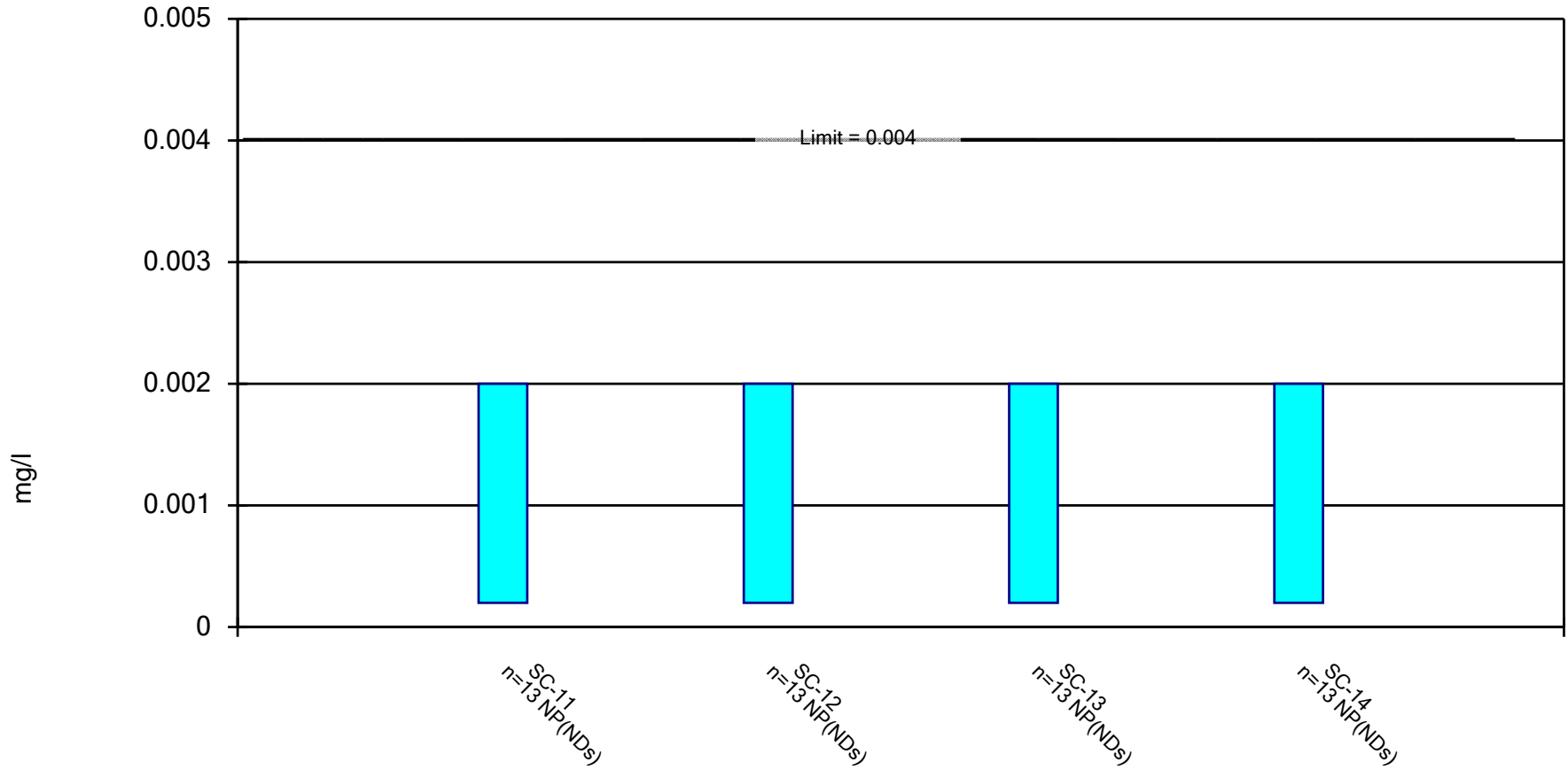
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

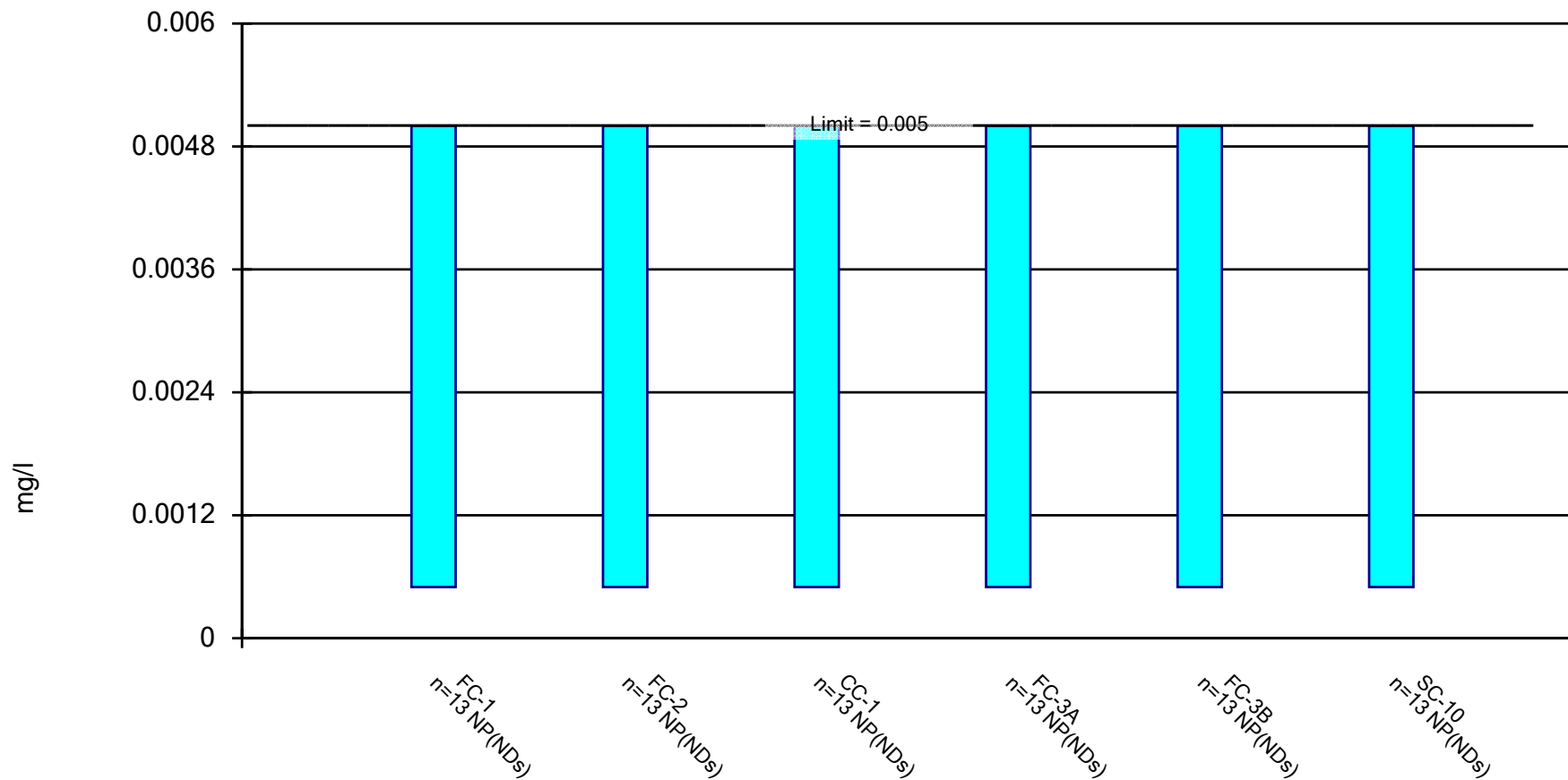
Constituent: Beryllium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.002 | <0.002 | <0.002 | <0.002 |
| 8/3/2016 | <0.002 | <0.002 | <0.002 | <0.002 |
| 9/20/2016 | <0.002 (D) | <0.002 | <0.002 | <0.002 |
| 10/13/2016 | <0.002 | <0.002 (D) | <0.002 | <0.002 |
| 11/16/2016 | <0.002 | <0.002 | <0.002 (D) | <0.002 |
| 1/19/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 2/15/2017 | <0.002 | <0.002 | <0.002 | <0.002 |
| 3/1/2017 | <0.002 | <0.002 (D) | <0.002 | <0.002 |
| 11/14/2017 | <0.0002 (D1) | <0.0002 (D1) | 0.00021 (D) | <0.0002 (D1) |
| 2/15/2018 | <0.002 | <0.002 | <0.001 (T) | <0.001 (T) |
| 9/26/2018 | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 |
| 5/15/2019 | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) |
| 9/24/2019 | | <0.0002 (D1D) | | |
| 9/25/2019 | <0.0002 (D1D) | | <0.0002 (D1D) | <0.0002 (D1D) |
| Mean | 0.001446 | 0.001446 | 0.00137 | 0.001369 |
| Std. Dev. | 0.0008647 | 0.0008647 | 0.0008546 | 0.0008557 |
| Upper Lim. | 0.002 | 0.002 | 0.002 | 0.002 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Non-Parametric Confidence Interval

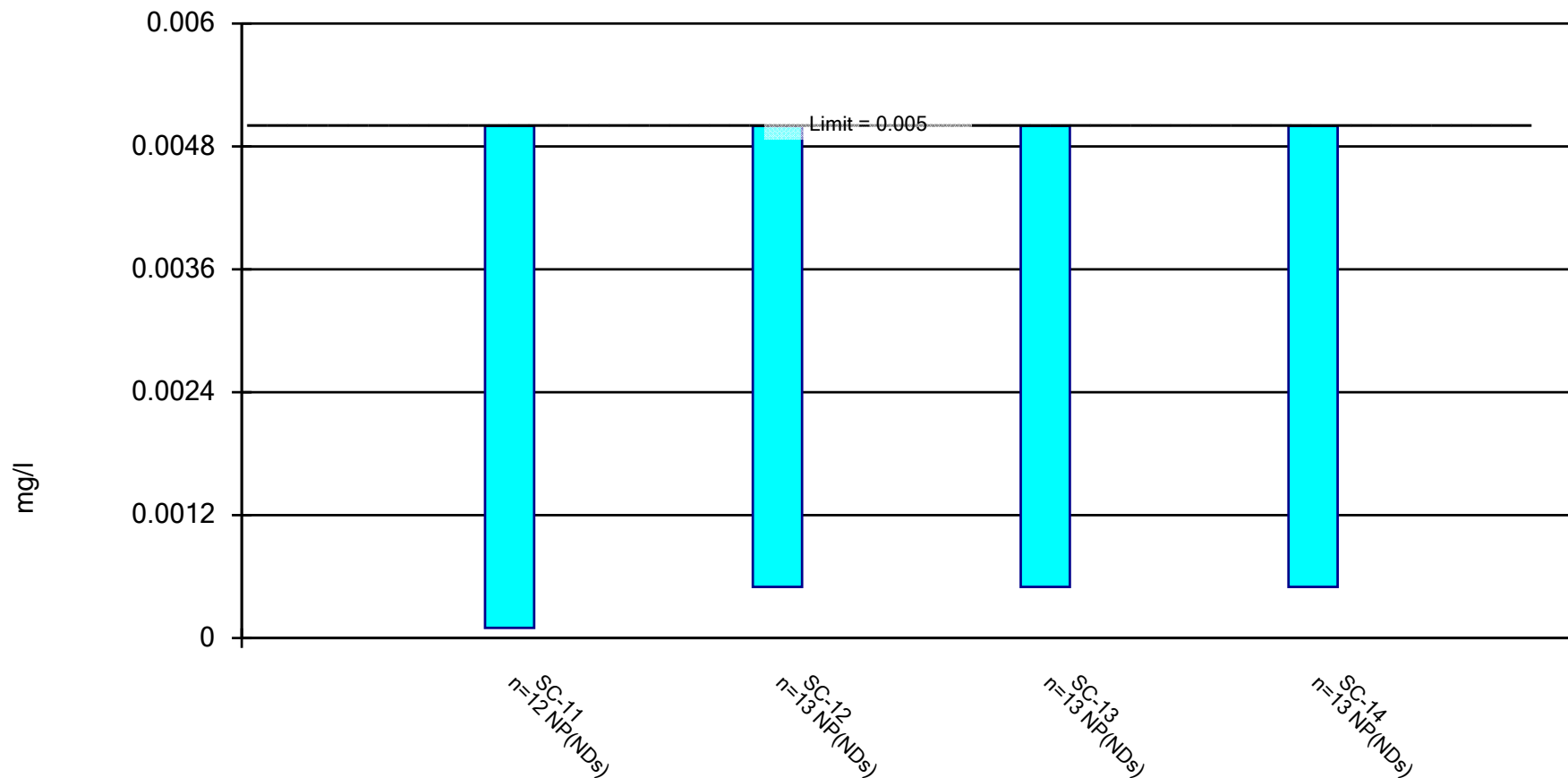
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

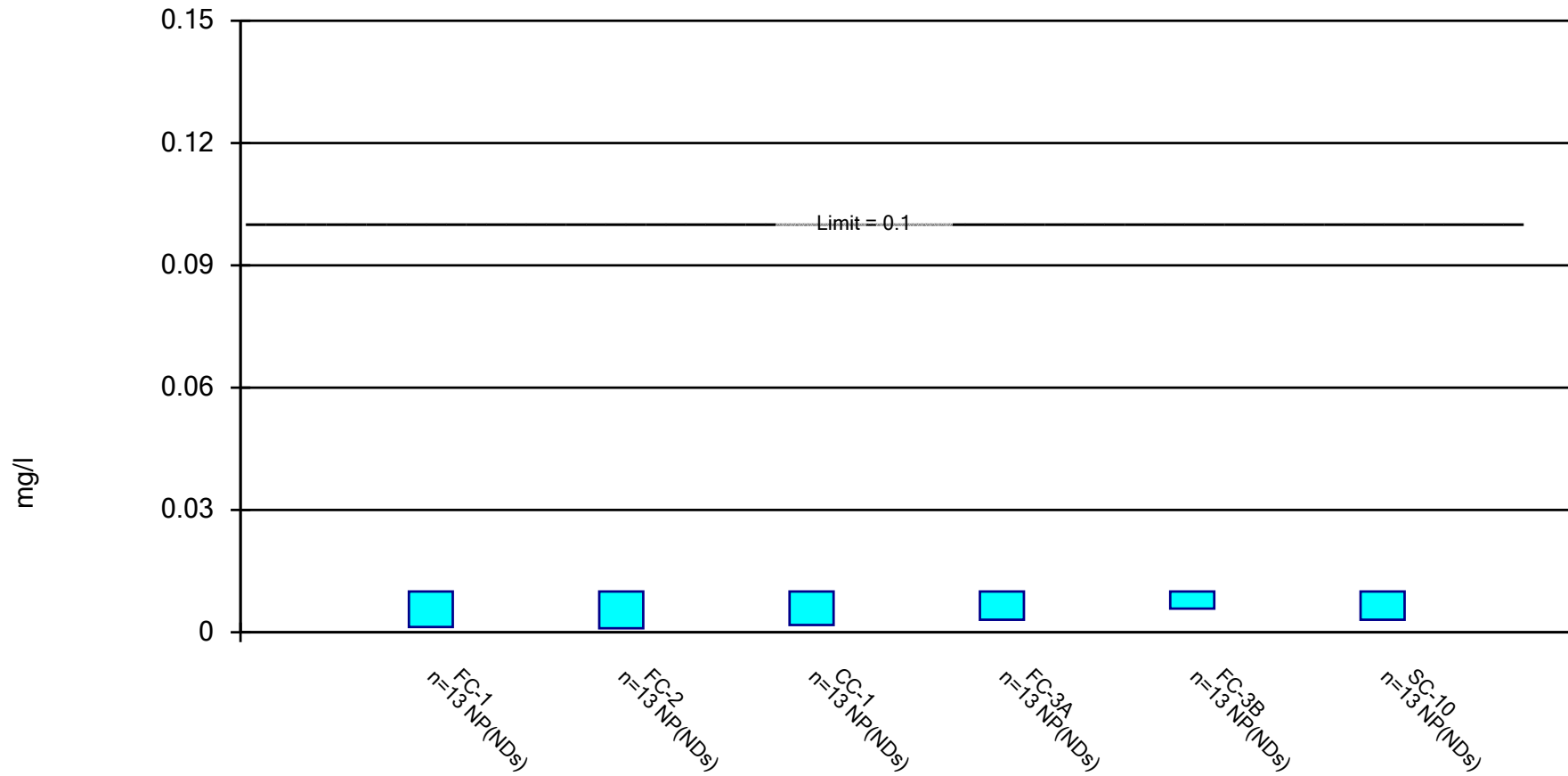
Constituent: Cadmium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/3/2016 | | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 10/13/2016 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/16/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 |
| 1/19/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/15/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/1/2017 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.0001 | <0.0001 | <0.001 | <0.001 |
| 9/26/2018 | <0.0005 | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/24/2019 | | <0.0005 (D1D) | | |
| 9/25/2019 | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| Mean | 0.003092 | 0.003238 | 0.003308 | 0.003308 |
| Std. Dev. | 0.002361 | 0.002321 | 0.002232 | 0.002232 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0001 | 0.0005 | 0.0005 | 0.0005 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium, Total Analysis Run 1/13/2020 11:51 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

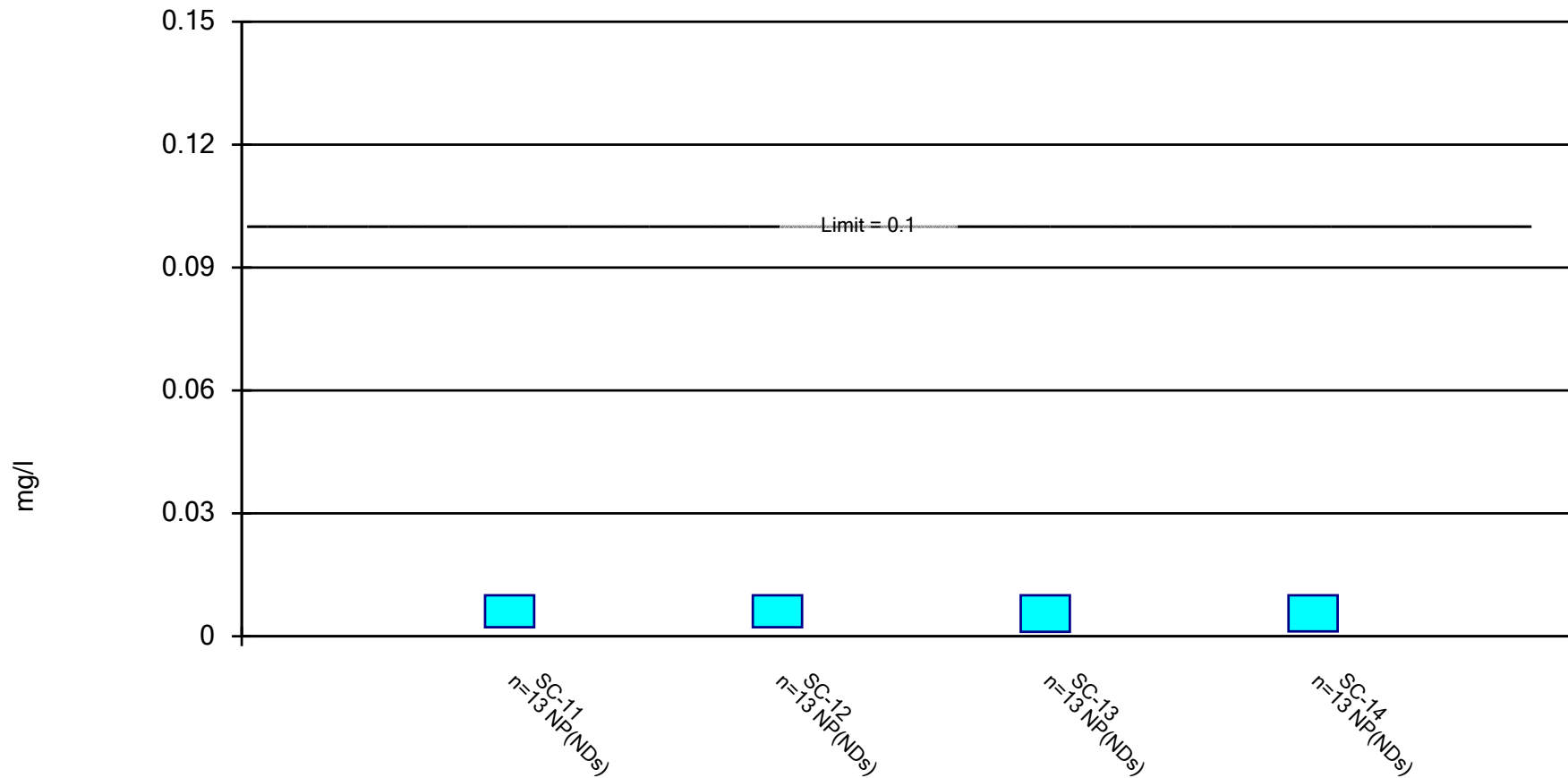
Constituent: Chromium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|------------|------------|------------|------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 | <0.01 (D) | | | <0.01 |
| 6/23/2016 | | | | <0.01 | | |
| 6/27/2016 | | | | | <0.01 | |
| 8/2/2016 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | |
| 8/3/2016 | | | | | | <0.01 (D) |
| 9/19/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 | <0.01 | |
| 9/20/2016 | | | | | | <0.01 |
| 10/12/2016 | <0.01 | <0.01 | <0.01 | <0.01 (D) | <0.01 | |
| 10/13/2016 | | | | | | <0.01 |
| 11/15/2016 | <0.01 | <0.01 | <0.01 | <0.01 (D) | <0.01 | |
| 11/16/2016 | | | | | | <0.01 |
| 1/18/2017 | <0.01 | <0.01 | <0.01 (D) | <0.01 | <0.01 | |
| 1/19/2017 | | | | | | <0.01 |
| 2/14/2017 | <0.01 | <0.01 | <0.01 (D) | <0.01 | <0.01 | |
| 2/15/2017 | | | | | | <0.01 (D) |
| 2/28/2017 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | |
| 3/1/2017 | | | | | | <0.01 |
| 11/13/2017 | 0.006 (D) | 0.0051 (D) | 0.0064 (D) | 0.0062 (D) | 0.0086 (D) | |
| 11/14/2017 | | | | | | 0.0061 (D) |
| 2/14/2018 | <0.004 | <0.004 | <0.004 | <0.004 (D) | 0.0058 | |
| 2/15/2018 | | | | | | <0.004 |
| 9/25/2018 | 0.001 (D) | 0.001 | 0.0017 | 0.0025 | 0.0061 | |
| 9/26/2018 | | | | | | 0.0019 |
| 5/14/2019 | 0.0013 | <0.001 (D) | 0.0018 (D) | 0.0031 (D) | 0.0049 (D) | |
| 5/15/2019 | | | | | | 0.0031 (D) |
| 9/24/2019 | 0.0042 (D) | 0.0035 (D) | 0.0036 (D) | 0.0054 (D) | 0.0089 (D) | |
| 9/25/2019 | | | | | | 0.0049 (D) |
| Mean | 0.007423 | 0.007277 | 0.0075 | 0.007785 | 0.008792 | 0.007692 |
| Std. Dev. | 0.003606 | 0.00374 | 0.003474 | 0.00305 | 0.001894 | 0.003178 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Lower Lim. | 0.0013 | 0.001 | 0.0018 | 0.0031 | 0.0058 | 0.0031 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

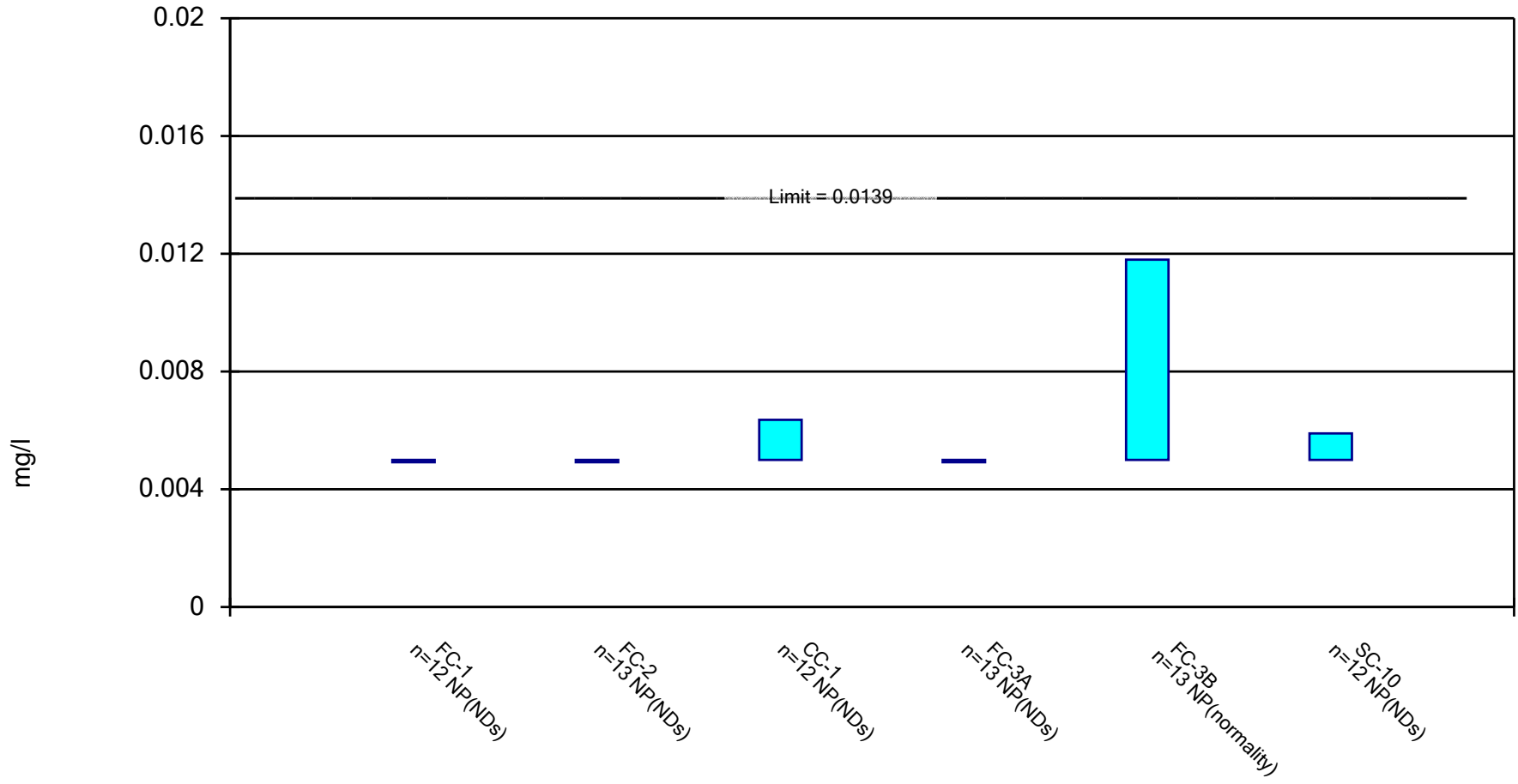
Constituent: Chromium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|------------|-------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 | <0.01 | <0.01 |
| 8/3/2016 | <0.01 | <0.01 | <0.01 | <0.01 |
| 9/20/2016 | <0.01 (D) | <0.01 | <0.01 | <0.01 |
| 10/13/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 |
| 11/16/2016 | <0.01 | <0.01 | <0.01 (D) | <0.01 |
| 1/19/2017 | <0.01 | <0.01 | <0.01 | <0.01 |
| 2/15/2017 | <0.01 | <0.01 | <0.01 | <0.01 |
| 3/1/2017 | <0.01 | <0.01 (D) | <0.01 | <0.01 |
| 11/14/2017 | 0.0075 (D) | 0.0069 (D) | 0.0029 (D) | 0.0066 (D) |
| 2/15/2018 | <0.004 | <0.004 | <0.004 | <0.004 |
| 9/26/2018 | 0.0012 | 0.0022 | <0.001 (D) | <0.001 |
| 5/15/2019 | 0.0022 (D) | 0.00185 (D) | 0.0011 (D) | 0.0012 (D) |
| 9/24/2019 | | 0.0043 (D) | | |
| 9/25/2019 | 0.0048 (D) | | 0.0049 (D) | 0.0041 (D) |
| Mean | 0.007669 | 0.007635 | 0.007223 | 0.007454 |
| Std. Dev. | 0.003378 | 0.003324 | 0.00379 | 0.003612 |
| Upper Lim. | 0.01 | 0.01 | 0.01 | 0.01 |
| Lower Lim. | 0.0022 | 0.0022 | 0.0011 | 0.0012 |

Non-Parametric Confidence Interval

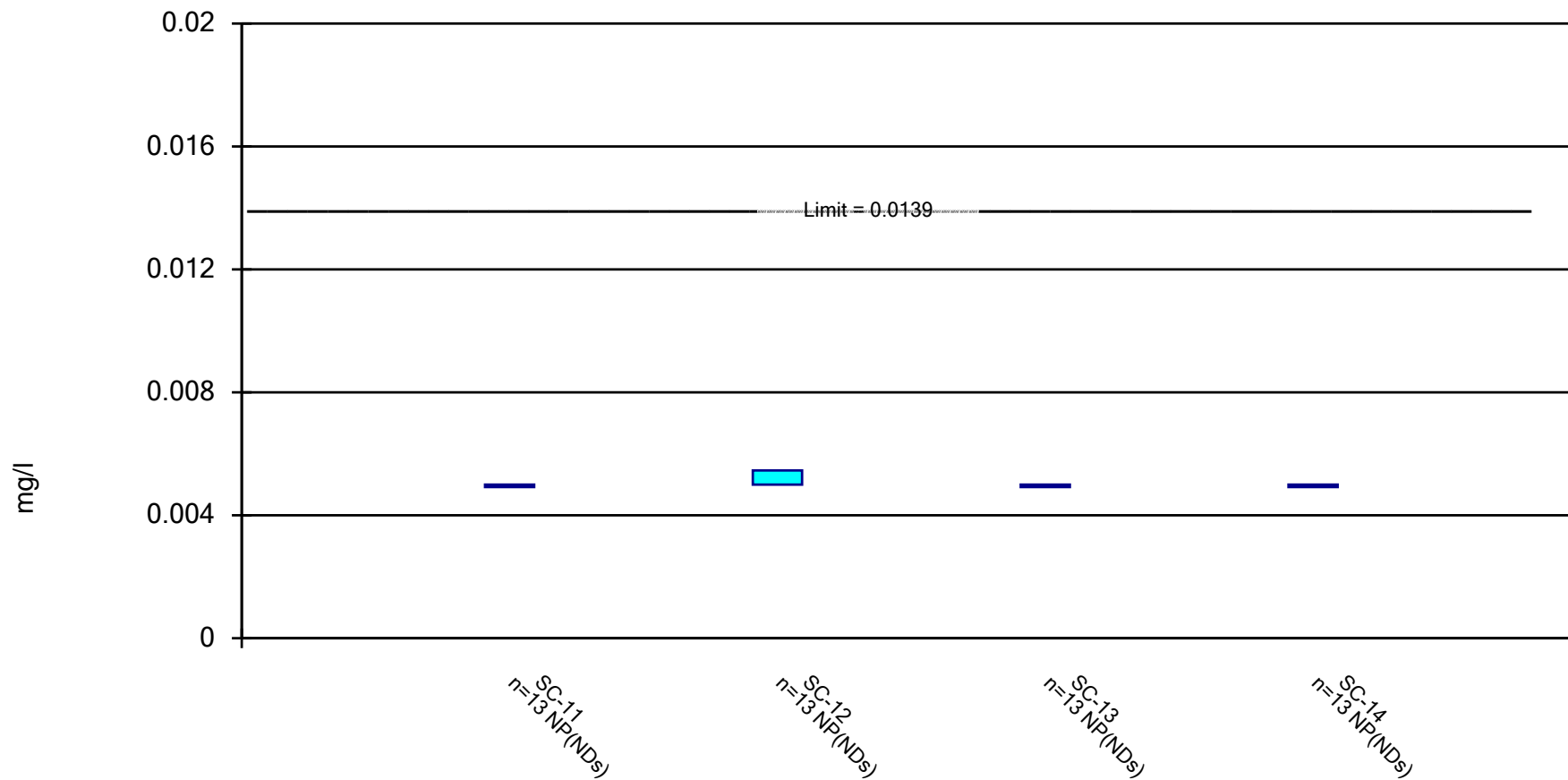
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

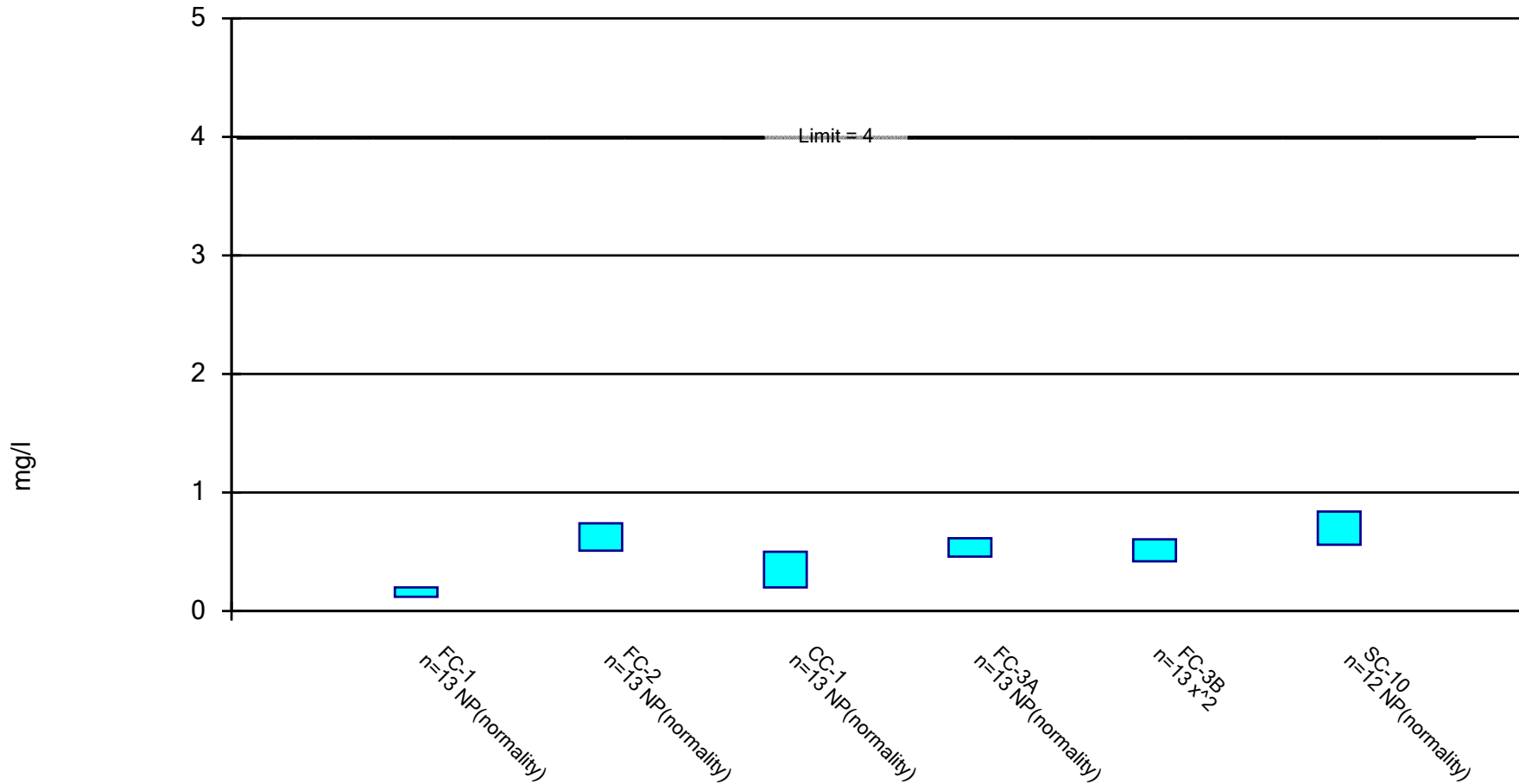
Constituent: Cobalt, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|--------------|--------------|--------------|--------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/3/2016 | 0.005 | <0.005 | <0.005 | <0.005 |
| 9/20/2016 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 10/13/2016 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/16/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 |
| 1/19/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 2/15/2017 | <0.005 | <0.005 | <0.005 | <0.005 |
| 3/1/2017 | <0.005 | <0.005 (D) | <0.005 | <0.005 |
| 11/14/2017 | <0.005 (D) | <0.005 | <0.005 | <0.005 |
| 2/15/2018 | 0.00525 | 0.00546 | <0.005 | <0.005 |
| 9/26/2018 | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) |
| 5/15/2019 | <0.005 | <0.005 | <0.005 | <0.005 |
| 9/24/2019 | | <0.005 | | |
| 9/25/2019 | <0.005 | | <0.005 (D) | <0.005 |
| Mean | 0.005019 | 0.005035 | 0.005 | 0.005 |
| Std. Dev. | 6.934E-05 | 0.0001276 | 0 | 0 |
| Upper Lim. | 0.005 | 0.00546 | 0.005 | 0.005 |
| Lower Lim. | 0.005 | 0.005 | 0.005 | 0.005 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

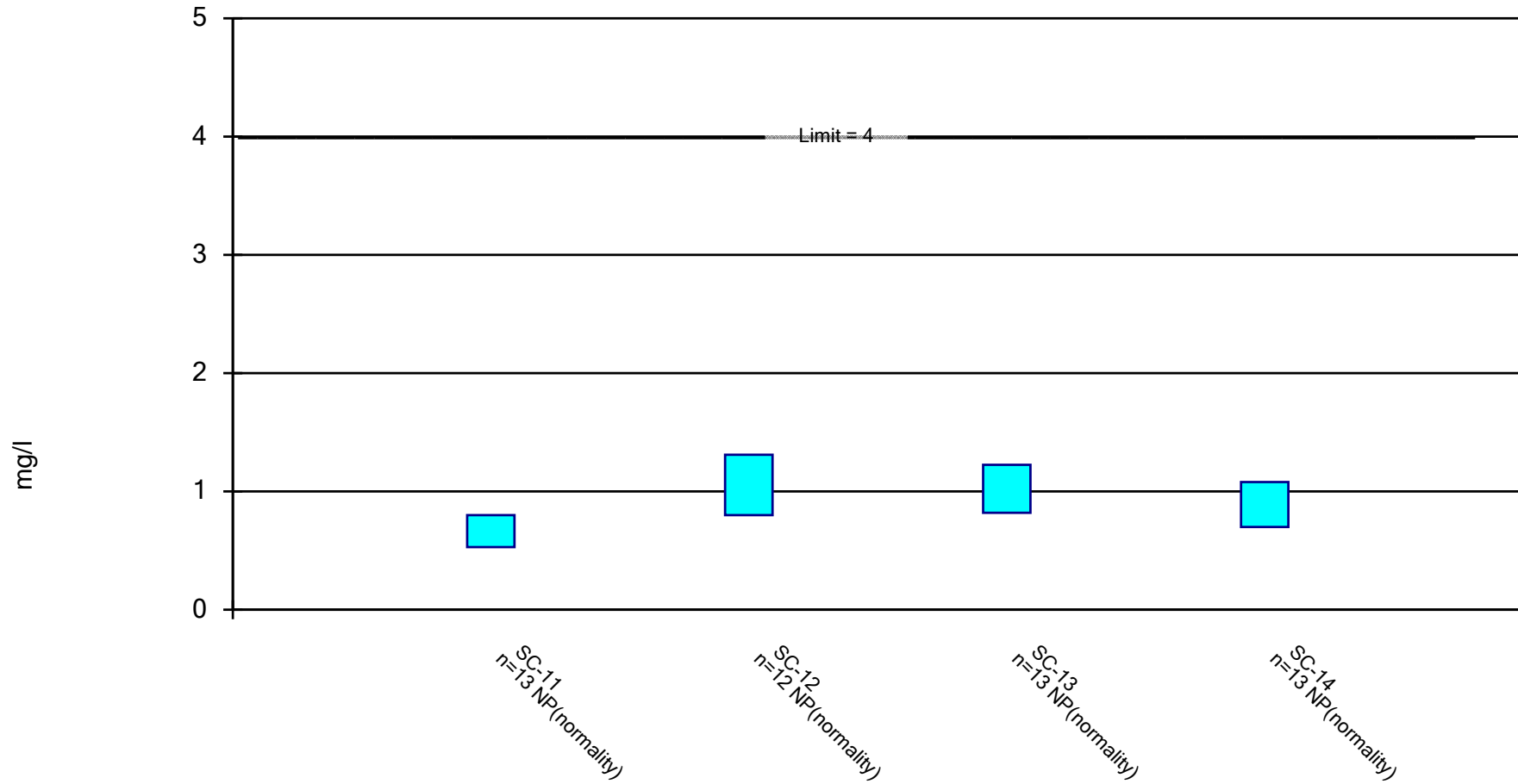
Constituent: Fluoride, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|--------------|-----------|------------|------------|-------------|------------|
| 6/22/2016 | 0.12 (T) | 0.51 (T) | 0.215 (TD) | | | 0.59 (T) |
| 6/23/2016 | | | | 0.46 (T) | | |
| 6/27/2016 | | | | | 0.55 | |
| 8/2/2016 | 0.06006 (TD) | 0.5 (T) | 0.21 (T) | 0.46 (T) | 0.00048 (T) | |
| 8/3/2016 | | | | | | 0.585 (TD) |
| 9/19/2016 | 0.13 | 0.985 (D) | 0.22 | 0.48 | 0.48 | |
| 9/20/2016 | | | | | | 0.56 |
| 10/12/2016 | 0.12 (T) | 0.52 (T) | 0.21 (T) | 0.465 (TD) | 0.51 (T) | |
| 10/13/2016 | | | | | | 0.61 (T) |
| 11/15/2016 | 0.12 (T) | 0.51 (T) | 0.2 (T) | 0.46 (TD) | 0.46 (T) | |
| 11/16/2016 | | | | | | 0.57 (T) |
| 1/18/2017 | 0.13 (T) | 0.52 (T) | 0.2 (TD) | 0.46 (T) | 0.56 (T) | |
| 1/19/2017 | | | | | | 0.56 (T) |
| 2/14/2017 | 0.13 (T) | 0.55 (T) | 0.22 (TD) | 0.48 (T) | 0.51 (T) | |
| 2/15/2017 | | | | | | 0.575 (TD) |
| 2/28/2017 | 0.13 (TD) | 0.53 (T) | 0.22 (T) | 0.47 (T) | 0.42 (T) | |
| 3/1/2017 | | | | | | 0.57 (T) |
| 11/13/2017 | 0.2 | 0.7 (D) | 0.45 | 0.56 | 0.48 | |
| 11/14/2017 | | | | | | 0.82 |
| 2/14/2018 | 0.21 | 0.74 | 0.5 | 0.615 (D) | 0.53 | |
| 2/15/2018 | | | | | | 0.84 |
| 9/25/2018 | 0.195 (D) | 0.73 | 0.48 | 0.62 | 0.52 | |
| 5/14/2019 | 0.13 | 0.51 | 0.2 | 0.44 (D) | 0.69 | |
| 5/15/2019 | | | | | | 0.54 |
| 9/24/2019 | 0.195 (D) | 0.72 | 0.53 | 0.59 | 0.72 | |
| 9/25/2019 | | | | | | 0.85 |
| Mean | 0.1439 | 0.6173 | 0.2965 | 0.5046 | 0.4947 | 0.6392 |
| Std. Dev. | 0.04325 | 0.1471 | 0.1355 | 0.06581 | 0.1708 | 0.1205 |
| Upper Lim. | 0.2 | 0.74 | 0.5 | 0.615 | 0.6054 | 0.84 |
| Lower Lim. | 0.12 | 0.51 | 0.2 | 0.46 | 0.4203 | 0.56 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

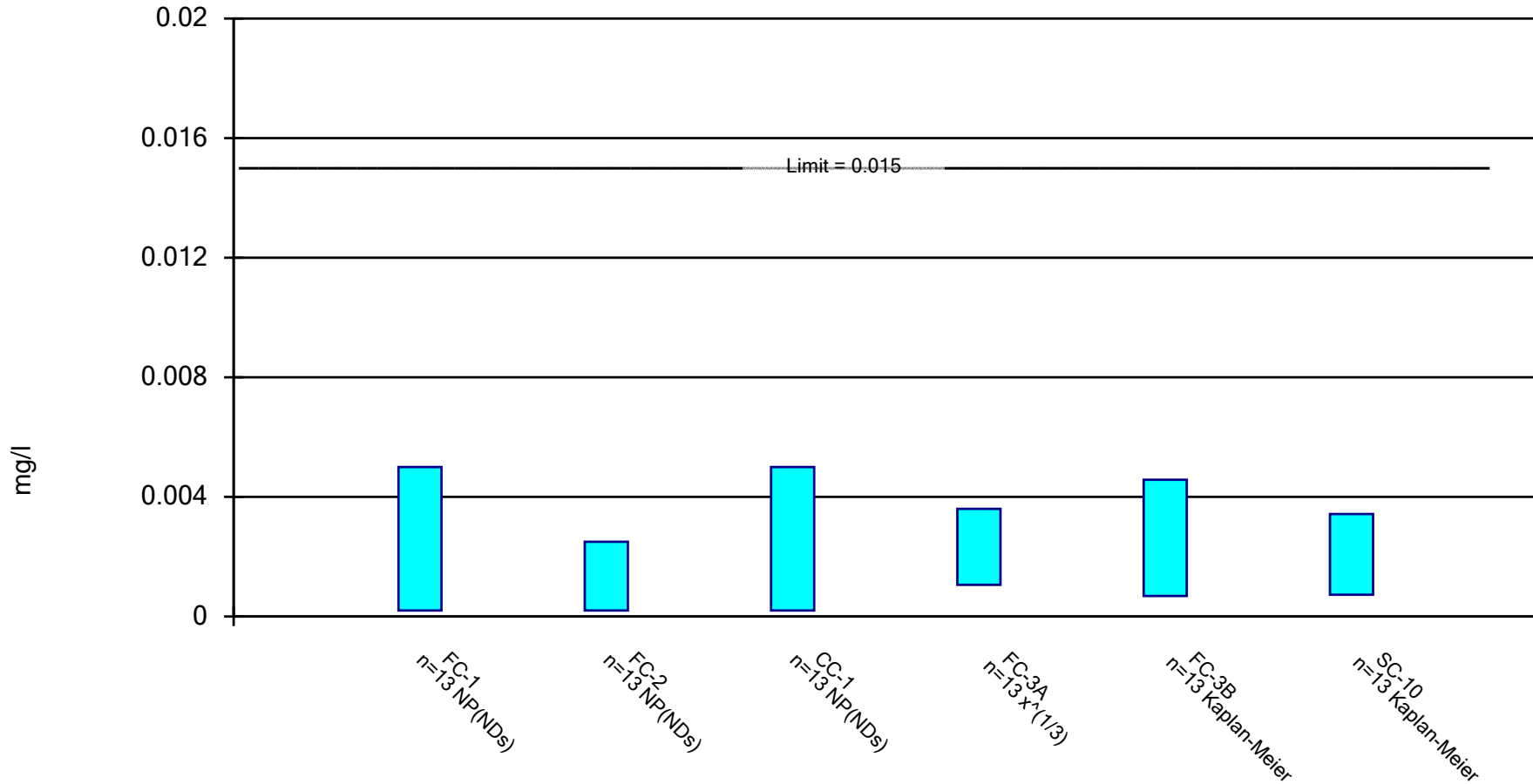
Constituent: Fluoride, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-----------|------------|-----------|----------|
| 6/22/2016 | 0.56 (T) | 0.79 (T) | 0.83 (T) | 0.73 (T) |
| 8/3/2016 | 0.54 (T) | 0.82 (T) | 0.82 (T) | 0.72 (T) |
| 9/20/2016 | 0.53 (D) | 0.82 | 1.22 (D) | 0.7 |
| 10/13/2016 | 0.57 (T) | 0.885 (TD) | 0.9 (T) | 0.77 (T) |
| 11/16/2016 | 0.53 (T) | 0.84 (T) | 0.84 (D) | 0.72 (T) |
| 1/19/2017 | 0.53 (T) | 0.84 (T) | 0.86 (T) | 0.74 (T) |
| 2/15/2017 | 0.55 (T) | | 0.86 (T) | 0.74 (T) |
| 3/1/2017 | 0.54 (T) | 0.84 (TD) | 0.84 (T) | 0.74 (T) |
| 11/14/2017 | 0.765 (D) | 1.27 | 1.21 | 1.06 |
| 2/15/2018 | 0.77 | 1.26 | 1.2 | 1.06 |
| 9/26/2018 | 0.8 | 1.31 | 1.275 (D) | 1.11 |
| 5/15/2019 | 0.53 | 0.8 (D) | 0.77 | 0.69 |
| 9/24/2019 | | 1.37 | | |
| 9/25/2019 | 0.81 | | 1.225 (D) | 1.08 |
| Mean | 0.6173 | 0.9871 | 0.9885 | 0.8354 |
| Std. Dev. | 0.1184 | 0.2356 | 0.1982 | 0.1695 |
| Upper Lim. | 0.8 | 1.31 | 1.225 | 1.08 |
| Lower Lim. | 0.53 | 0.8 | 0.82 | 0.7 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

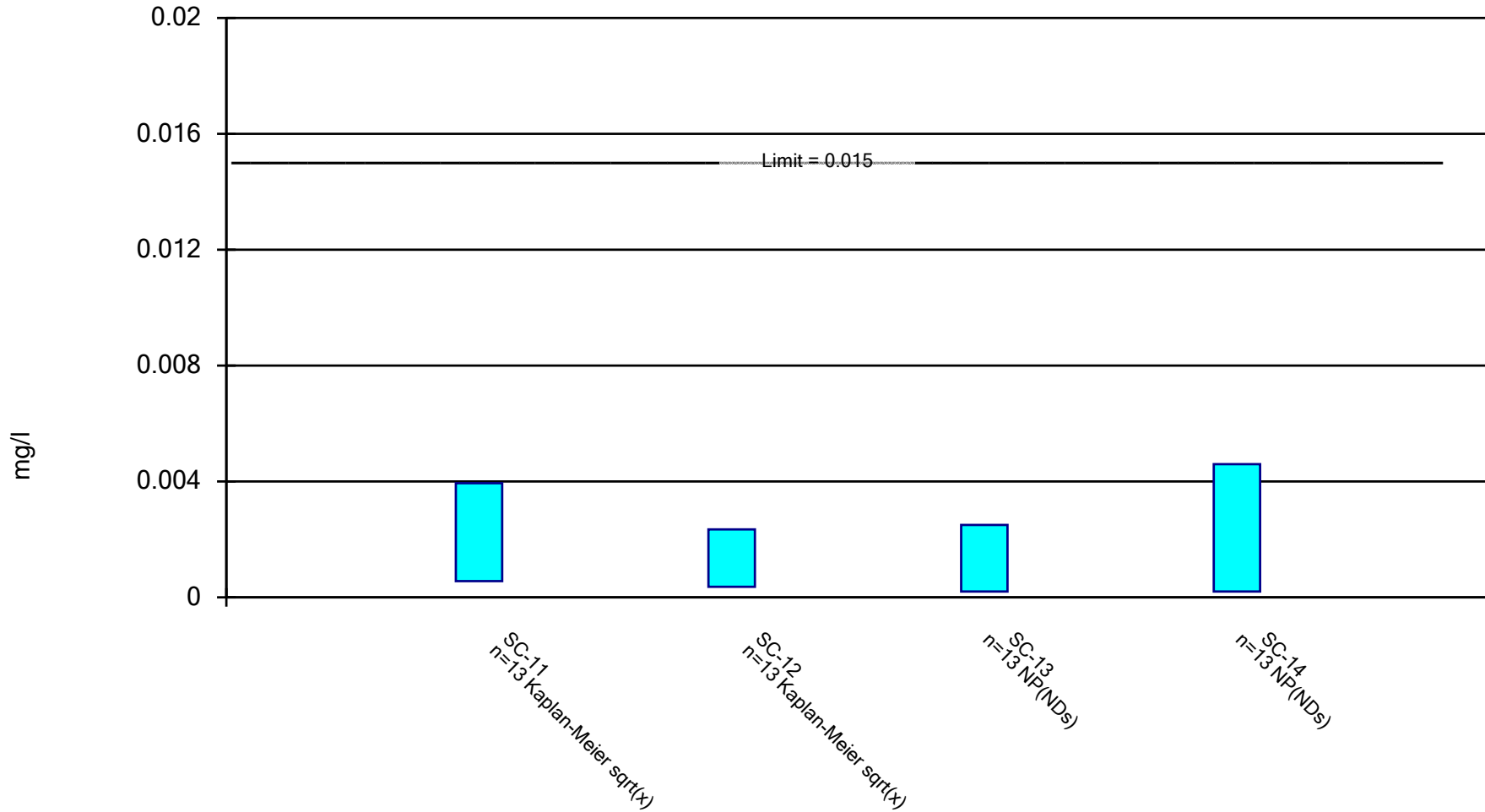
Constituent: Lead, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|---------------|---------------|---------------|--------------|---------------|---------------|
| 6/22/2016 | <0.0002 | 0.0002 | <0.0002 (D) | | | 0.0041 |
| 6/23/2016 | | | | 0.0052 | | |
| 6/27/2016 | | | | | 0.0039 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | <0.0002 | 0.0015 | 0.0021 | |
| 8/3/2016 | | | | | | 0.0017 (D) |
| 9/19/2016 | 0.00032 (D) | <0.0002 (D1) | <0.0002 (D1) | 0.001 (D) | 0.00042 (D) | |
| 9/20/2016 | | | | | | 0.00091 (D) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | 0.000835 (D) | <0.0002 (D1) | |
| 10/13/2016 | | | | | | 0.00044 (D) |
| 11/15/2016 | 0.0037 (D) | <0.0002 (D1) | 0.0052 (D) | 0.0031 (D) | 0.0065 (D) | |
| 11/16/2016 | | | | | | 0.0063 (D) |
| 1/18/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0035 (D) | 0.0035 (D) | 0.0035 (D) | |
| 1/19/2017 | | | | | | 0.0041 (D) |
| 2/14/2017 | 0.0027 (D) | 0.0018 (D) | 0.0028 (D) | 0.0017 (D) | 0.00099 (D) | |
| 2/15/2017 | | | | | | 0.00275 (D) |
| 2/28/2017 | 0.0081 (D) | 0.0089 (D) | 0.0049 (D) | 0.009 | 0.0089 (D) | |
| 3/1/2017 | | | | | | 0.0046 (D) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | 0.00091 (D) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | 0.0011 (D) |
| 2/14/2018 | <0.005 | <0.0025 | <0.005 | <0.0025 (D) | <0.0025 | |
| 2/15/2018 | | | | | | <0.005 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | 0.00086 | 0.0046 | |
| 9/26/2018 | | | | | | <0.0005 (D1) |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | 0.0011 (D1D) | 0.00073 (D1D) | |
| 5/15/2019 | | | | | | 0.00092 (D1D) |
| 9/24/2019 | <0.0005 (D1D) | 0.0014 (D) | 0.00072 (D) | 0.0018 (D) | 0.0012 (D) | |
| 9/25/2019 | | | | | | 0.00089 (D) |
| Mean | 0.001763 | 0.001354 | 0.001878 | 0.002539 | 0.002772 | 0.002562 |
| Std. Dev. | 0.002461 | 0.002381 | 0.002076 | 0.002331 | 0.00265 | 0.002014 |
| Upper Lim. | 0.005 | 0.0025 | 0.005 | 0.003603 | 0.004575 | 0.003427 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.001061 | 0.0006864 | 0.0007298 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

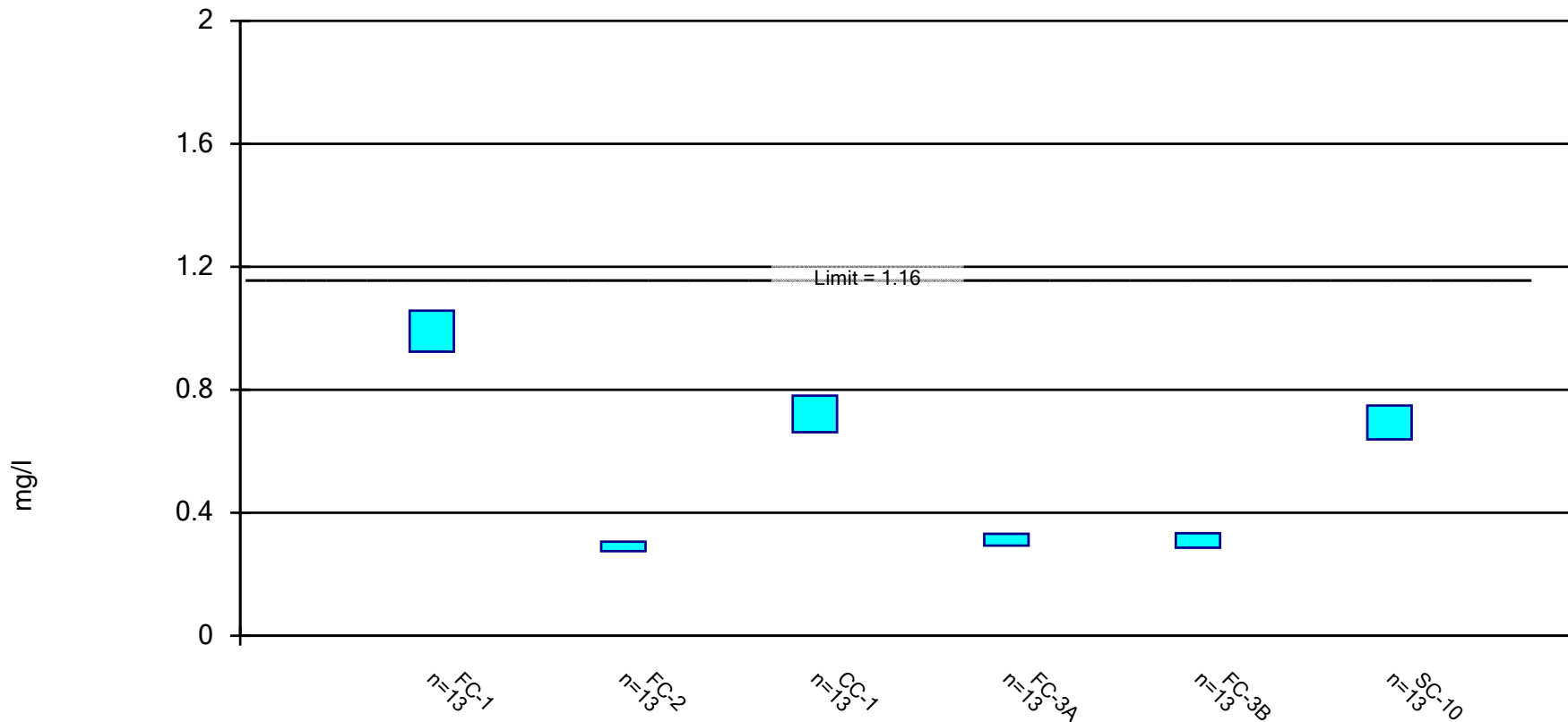
Constituent: Lead, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|--------------|---------------|---------------|
| 6/22/2016 | 0.0076 | 0.00043 | 0.00052 | 0.0046 |
| 8/3/2016 | 0.0043 | 0.0016 | <0.0002 | 0.0007 |
| 9/20/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 10/13/2016 | 0.0006 (D) | <0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.0063 (D) | 0.0038 (D) | 0.00145 (D) | 0.0016 (D) |
| 1/19/2017 | 0.0025 (D) | 0.0017 (D) | 0.0015 (D) | 0.0016 (D) |
| 2/15/2017 | 0.0028 (D) | 0.0021 (D) | 0.0015 (D) | 0.0015 (D) |
| 3/1/2017 | 0.0059 (D) | 0.0064 (D) | 0.0068 (D) | 0.0064 (D) |
| 11/14/2017 | 0.00073 (D) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.005 | <0.005 | <0.0025 | <0.0025 |
| 9/26/2018 | <0.0005 (D1) | 0.0012 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D) | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/24/2019 | | 0.00056 (D) | | |
| 9/25/2019 | 0.00059 (D) | | 0.000825 (D) | <0.0005 (D1D) |
| Mean | 0.002886 | 0.001861 | 0.001323 | 0.001638 |
| Std. Dev. | 0.002635 | 0.001995 | 0.001783 | 0.00188 |
| Upper Lim. | 0.003939 | 0.002344 | 0.0025 | 0.0046 |
| Lower Lim. | 0.0005611 | 0.0003631 | 0.0002 | 0.0002 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

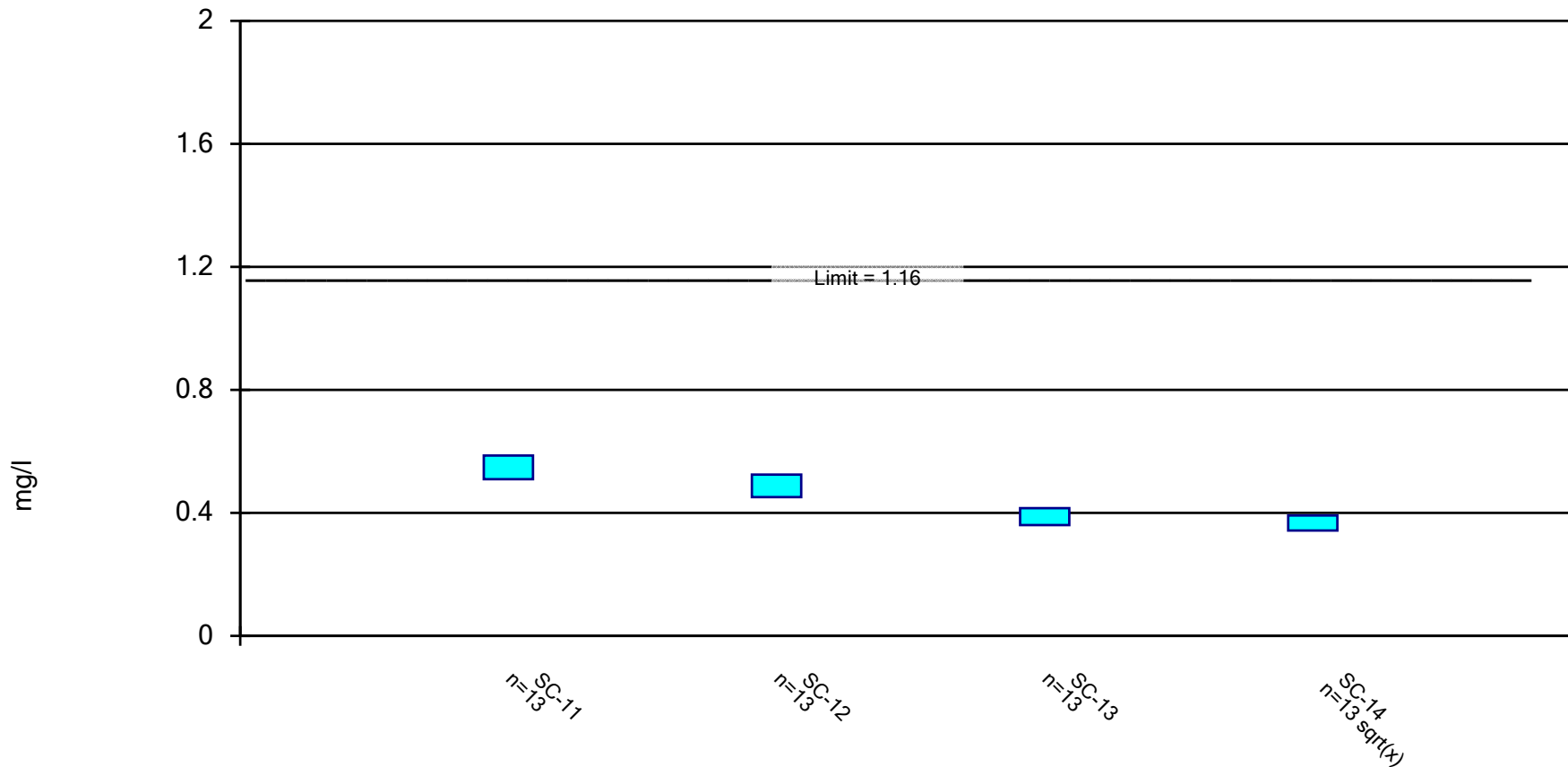
Constituent: Lithium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|------------|------------|-----------|------------|-----------|-----------|
| 6/22/2016 | 0.904 | 0.269 | 0.671 (D) | | | 0.601 |
| 6/23/2016 | | | | 0.303 | | |
| 6/27/2016 | | | | | 0.232 | |
| 8/2/2016 | 0.984 (D) | 0.305 | 0.731 | 0.311 | 0.274 | |
| 8/3/2016 | | | | | | 0.661 (D) |
| 9/19/2016 | 1.01 | 0.306 (D) | 0.779 | 0.343 | 0.295 | |
| 9/20/2016 | | | | | | 0.728 |
| 10/12/2016 | 1.03 | 0.307 | 0.825 | 0.3455 (D) | 0.315 | |
| 10/13/2016 | | | | | | 0.761 |
| 11/15/2016 | 1.16 | 0.325 (T) | 0.822 | 0.3375 (D) | 0.344 | |
| 11/16/2016 | | | | | | 0.786 |
| 1/18/2017 | 1.08 | 0.318 | 0.791 (D) | 0.343 (D) | 0.335 | |
| 1/19/2017 | | | | | | 0.858 (D) |
| 2/14/2017 | 1 | 0.298 | 0.73 (D) | 0.312 | 0.334 | |
| 2/15/2017 | | | | | | 0.671 (D) |
| 2/28/2017 | 0.9125 (D) | 0.275 (D) | 0.641 | 0.283 (D) | 0.326 (D) | |
| 3/1/2017 | | | | | | 0.637 (D) |
| 11/13/2017 | 0.894 | 0.2665 (D) | 0.63 | 0.288 | 0.31 | |
| 11/14/2017 | | | | | | 0.632 |
| 2/14/2018 | 0.9 (D) | 0.265 (D) | 0.576 (D) | 0.2635 (D) | 0.341 (D) | |
| 2/15/2018 | | | | | | 0.66 (D) |
| 9/25/2018 | 0.9085 (D) | 0.276 (D) | 0.664 (D) | 0.302 (D) | 0.316 (D) | |
| 9/26/2018 | | | | | | 0.626 (D) |
| 5/14/2019 | 1.13 | 0.294 | 0.798 | 0.3265 (D) | 0.321 | |
| 5/15/2019 | | | | | | 0.729 |
| 9/24/2019 | 0.9695 (D) | 0.274 (D) | 0.722 (D) | 0.303 (D) | 0.284 (D) | |
| 9/25/2019 | | | | | | 0.669 (D) |
| Mean | 0.991 | 0.2907 | 0.7215 | 0.3124 | 0.3098 | 0.6938 |
| Std. Dev. | 0.08968 | 0.02071 | 0.08002 | 0.02571 | 0.03167 | 0.07416 |
| Upper Lim. | 1.058 | 0.3061 | 0.781 | 0.3315 | 0.3333 | 0.7489 |
| Lower Lim. | 0.9243 | 0.2753 | 0.662 | 0.2933 | 0.2862 | 0.6386 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

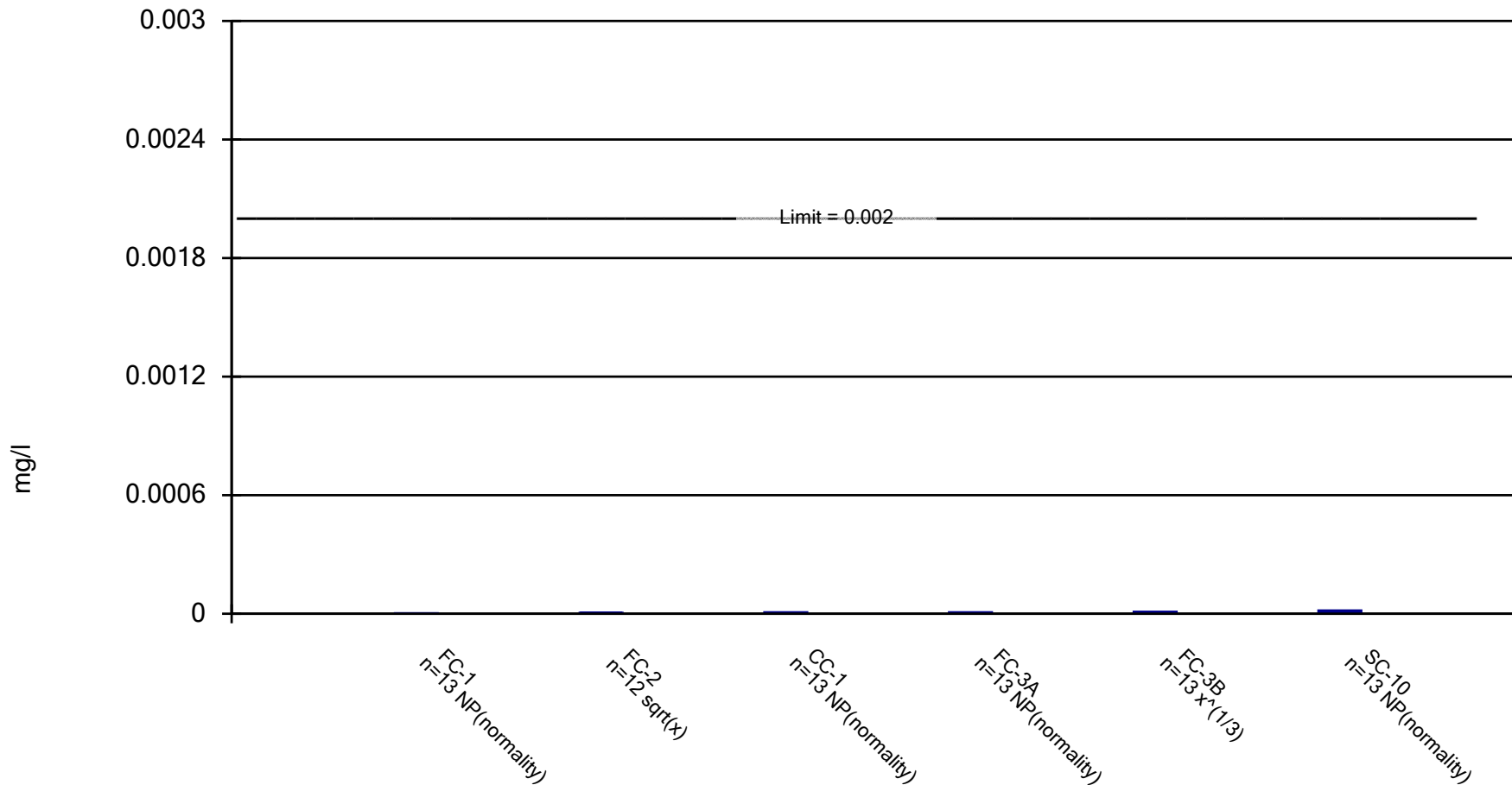
Constituent: Lithium, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 0.475 | 0.422 | 0.394 | 0.363 |
| 8/3/2016 | 0.497 | 0.47 | 0.384 | 0.353 |
| 9/20/2016 | 0.593 (D) | 0.53 | 0.429 | 0.406 |
| 10/13/2016 | 0.611 | 0.546 (D) | 0.437 | 0.415 |
| 11/16/2016 | 0.622 | 0.572 | 0.4445 (D) | 0.422 |
| 1/19/2017 | 0.619 (D) | 0.558 (D) | 0.433 (D) | 0.407 (D) |
| 2/15/2017 | 0.542 | 0.472 | 0.379 | 0.365 |
| 3/1/2017 | 0.5 (D) | 0.449 (D) | 0.343 (D) | 0.338 (D) |
| 11/14/2017 | 0.519 (D) | 0.443 | 0.345 | 0.336 |
| 2/15/2018 | 0.494 (D) | 0.442 (D) | 0.374 (D) | 0.345 (D) |
| 9/26/2018 | 0.534 (D) | 0.471 (D) | 0.3495 (D) | 0.336 (D) |
| 5/15/2019 | 0.583 | 0.505 (D) | 0.378 | 0.363 |
| 9/24/2019 | | 0.464 (D) | | |
| 9/25/2019 | 0.538 | | 0.3545 (D) | 0.33 (D) |
| Mean | 0.5482 | 0.488 | 0.388 | 0.3676 |
| Std. Dev. | 0.05169 | 0.04902 | 0.03675 | 0.03328 |
| Upper Lim. | 0.5867 | 0.5245 | 0.4154 | 0.3918 |
| Lower Lim. | 0.5098 | 0.4515 | 0.3607 | 0.3429 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

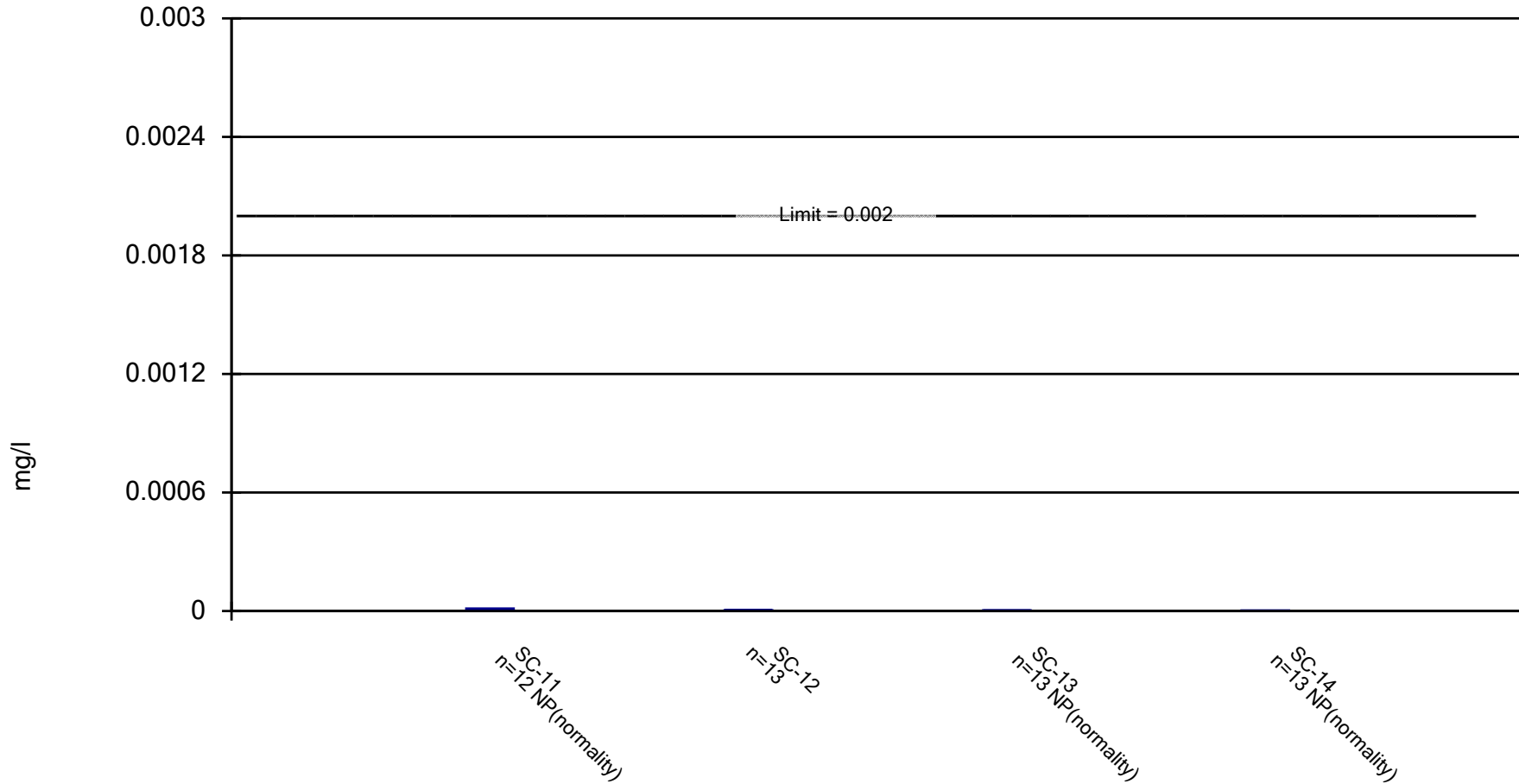
Constituent: Mercury, Total (mg/l) Analysis Run 1/13/2020 11:53 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|--------------|-------------|-------------|-----------|--------------|
| 6/22/2016 | 1.3E-06 | 2.8E-06 | 4.7E-06 (D) | | | 3.6E-05 |
| 6/23/2016 | | | | 5.4E-06 | | |
| 6/27/2016 | | | | | 1.3E-05 | |
| 8/2/2016 | 2E-06 (D) | 4E-06 | 6E-06 | 7E-06 | 6E-06 | |
| 8/3/2016 | | | | | | 1.05E-05 (D) |
| 9/19/2016 | 2E-06 | 3E-06 (D) | 6E-06 | 4E-06 | 3E-06 | |
| 9/20/2016 | | | | | | 1.6E-05 |
| 10/12/2016 | 2E-06 | | 6E-06 | 5E-06 (D) | 3E-06 | |
| 10/13/2016 | | | | | | 1E-05 |
| 11/15/2016 | 2E-06 | 4E-06 | 6E-06 | 2E-06 (D) | 9E-06 | |
| 11/16/2016 | | | | | | 1E-05 |
| 1/18/2017 | 2E-06 | 5E-06 | 7.5E-06 (D) | 2E-06 | 8E-06 | |
| 1/19/2017 | | | | | | 1.1E-05 |
| 2/14/2017 | 2E-06 | 4E-06 | 6E-06 (D) | 2E-06 | 4E-06 | |
| 2/15/2017 | | | | | | 9E-06 (D) |
| 2/28/2017 | 2E-06 (D) | 4E-06 | 6E-06 | 2E-06 | 5E-06 | |
| 3/1/2017 | | | | | | 9E-06 |
| 11/13/2017 | 2E-06 (T) | 3.5E-06 (TD) | 6E-06 (T) | 4E-06 (T) | 7E-06 (T) | |
| 11/14/2017 | | | | | | 1E-05 |
| 2/14/2018 | 2E-06 | 3E-06 | 5E-06 | 2E-06 (D) | 5E-06 | |
| 2/15/2018 | | | | | | 1.1E-05 |
| 9/25/2018 | 2.5E-06 (D) | 3E-06 | 5E-06 | 3E-06 | 2.4E-05 | |
| 9/26/2018 | | | | | | 9E-06 |
| 5/14/2019 | 2E-06 | 3E-06 | 6E-06 | 7.5E-06 (D) | 3E-06 | |
| 5/15/2019 | | | | | | 1E-05 |
| 9/24/2019 | 2E-06 (D) | 5E-06 | 5E-06 | 8E-06 | 5E-06 | |
| 9/25/2019 | | | | | | 1E-05 |
| Mean | 1.985E-06 | 3.692E-06 | 5.785E-06 | 4.146E-06 | 7.308E-06 | 1.242E-05 |
| Std. Dev. | 2.5E-07 | 7.7E-07 | 7.3E-07 | 2.253E-06 | 5.765E-06 | 7.308E-06 |
| Upper Lim. | 2.5E-06 | 4.273E-06 | 7.5E-06 | 7.5E-06 | 1.006E-05 | 1.6E-05 |
| Lower Lim. | 1.3E-06 | 3.087E-06 | 5E-06 | 2E-06 | 3.705E-06 | 9E-06 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Mercury, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

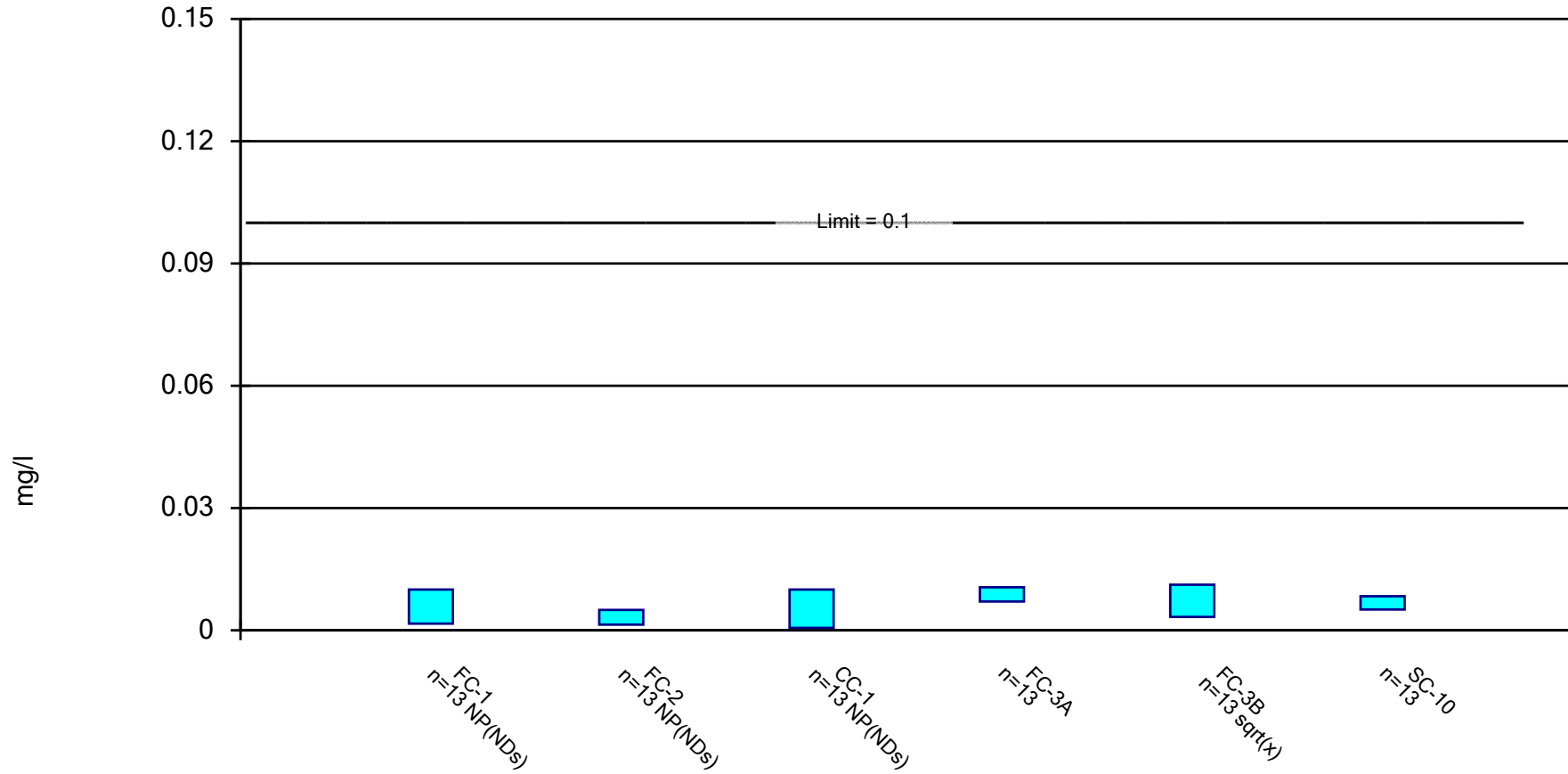
Constituent: Mercury, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|-----------|-----------|-----------|
| 6/22/2016 | 6.7E-05 | 4.5E-06 | 3.6E-06 | 1.2E-05 |
| 8/3/2016 | | 6E-06 | 2E-06 | 3E-06 |
| 9/20/2016 | 9.5E-06 (D) | 5E-06 | 3E-06 | 3E-06 |
| 10/13/2016 | 1E-05 | 3E-06 (D) | 2E-06 | 2E-06 |
| 11/16/2016 | 1E-05 | 4E-06 | 2E-06 (D) | 2E-06 |
| 1/19/2017 | 1E-05 | 4E-06 | 3E-06 | 2E-06 |
| 2/15/2017 | 8E-06 | 3E-06 | 2E-06 | 2E-06 |
| 3/1/2017 | 9E-06 | 3E-06 (D) | 3E-06 | <2E-06 |
| 11/14/2017 | 7.5E-06 (D) | 4E-06 | 2E-06 | 2E-06 |
| 2/15/2018 | 1.3E-05 | 4E-06 | 2E-06 | 2E-06 |
| 9/26/2018 | 8E-06 | 5E-06 | 2E-06 (D) | 2E-06 |
| 5/15/2019 | 9E-06 | 4E-06 (D) | 2E-06 | 2E-06 |
| 9/24/2019 | | 4E-06 | | |
| 9/25/2019 | 9E-06 | | 4E-06 (D) | 2E-06 |
| Mean | 1.417E-05 | 4.115E-06 | 2.508E-06 | 2.846E-06 |
| Std. Dev. | 1.67E-05 | 8.7E-07 | 7.2E-07 | 2.794E-06 |
| Upper Lim. | 1.3E-05 | 4.762E-06 | 3.6E-06 | 3E-06 |
| Lower Lim. | 8E-06 | 3.469E-06 | 2E-06 | 1E-06 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

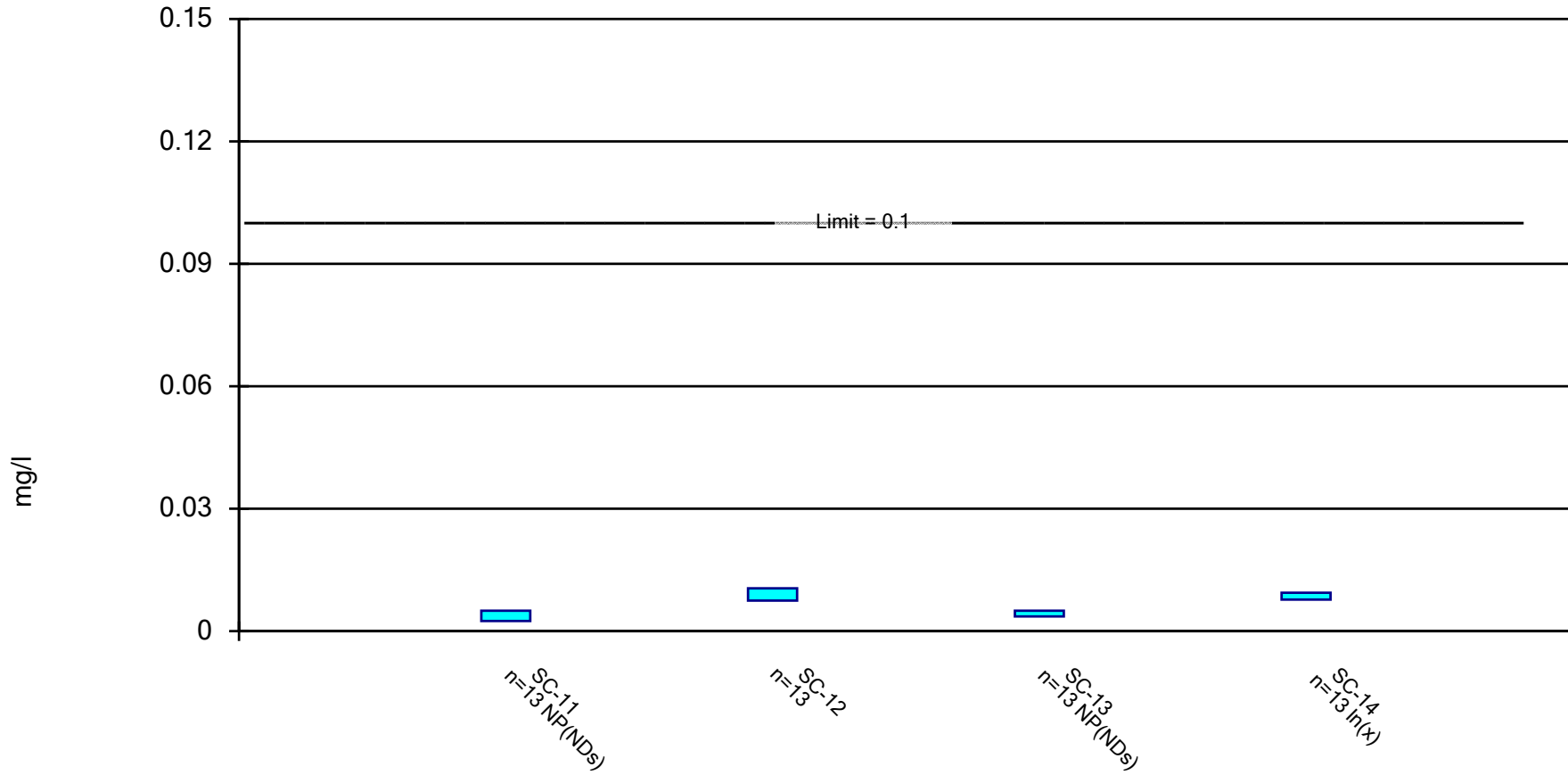
Constituent: Molybdenum, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|--------------|--------------|--------------|------------|--------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | | | 0.0113 |
| 6/23/2016 | | | | <0.005 | | |
| 6/27/2016 | | | | | 0.0201 | |
| 8/2/2016 | <0.005 (D) | <0.005 | <0.005 | 0.00838 | 0.0198 | |
| 8/3/2016 | | | | | | 0.008055 (D) |
| 9/19/2016 | <0.005 | <0.005 (D) | <0.005 | 0.0122 | 0.00609 | |
| 9/20/2016 | | | | | | 0.00911 |
| 10/12/2016 | <0.005 | 0.001252 (D) | <0.005 | 0.009175 (D) | 0.00525 | |
| 10/13/2016 | | | | | | 0.00767 |
| 11/15/2016 | <0.005 | <0.005 | <0.005 | 0.01065 (D) | 0.0117 | |
| 11/16/2016 | | | | | | 0.0074 |
| 1/18/2017 | <0.005 | <0.005 | <0.005 (D) | 0.00969 | <0.005 | |
| 1/19/2017 | | | | | | 0.00614 |
| 2/14/2017 | <0.005 | <0.005 | <0.005 (D) | 0.0104 | 0.00716 | |
| 2/15/2017 | | | | | | 0.006325 (D) |
| 2/28/2017 | <0.005 (D) | <0.005 | <0.005 | 0.0109 | 0.00842 | |
| 3/1/2017 | | | | | | 0.00646 |
| 11/13/2017 | 0.0015 (D) | 0.0014 (D) | <0.0002 (D1) | 0.005 (D) | 0.0042 (D) | |
| 11/14/2017 | | | | | | 0.0026 (D) |
| 2/14/2018 | <0.01 | 0.003 | <0.01 | 0.0112 (D) | 0.0055 | |
| 2/15/2018 | | | | | | 0.0072 |
| 9/25/2018 | 0.0015 (D) | 0.002 | 0.0006 | 0.0086 | 0.0027 | |
| 9/26/2018 | | | | | | 0.0062 |
| 5/14/2019 | 0.0018 | 0.002 (D) | 0.00068 (D) | 0.0069 (D) | 0.0014 (D) | |
| 5/15/2019 | | | | | | 0.0054 (D) |
| 9/24/2019 | 0.00165 (D) | 0.0021 (D) | 0.00067 (D) | 0.0066 (D) | 0.002 (D) | |
| 9/25/2019 | | | | | | 0.0038 (D) |
| Mean | 0.004342 | 0.003596 | 0.004012 | 0.008823 | 0.00764 | 0.006743 |
| Std. Dev. | 0.002333 | 0.001628 | 0.002771 | 0.002348 | 0.006104 | 0.002201 |
| Upper Lim. | 0.01 | 0.005 | 0.01 | 0.01057 | 0.01119 | 0.00838 |
| Lower Lim. | 0.00165 | 0.0014 | 0.0006 | 0.007076 | 0.003303 | 0.005106 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

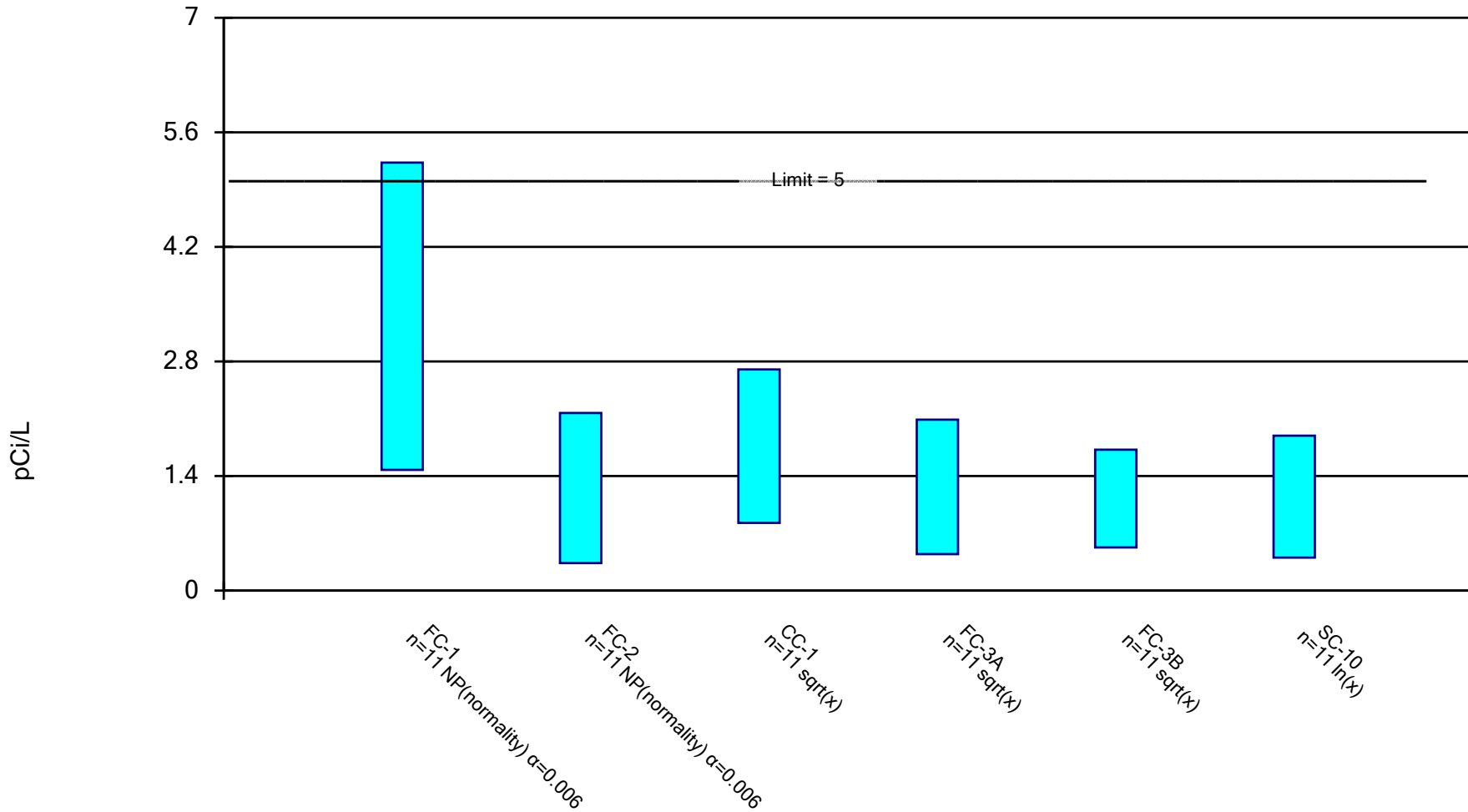
Constituent: Molybdenum, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|-------------|-------------|------------|
| 6/22/2016 | <0.005 | 0.0128 | <0.005 | 0.0079 |
| 8/3/2016 | <0.005 | 0.0103 | <0.005 | 0.00734 |
| 9/20/2016 | <0.005 (D) | 0.00983 | <0.005 | 0.00819 |
| 10/13/2016 | <0.005 | 0.0101 (D) | <0.005 | 0.00848 |
| 11/16/2016 | <0.005 | 0.00951 | <0.005 (D) | 0.00897 |
| 1/19/2017 | <0.005 | 0.00866 | <0.005 | 0.00798 |
| 2/15/2017 | <0.005 | 0.00909 | <0.005 | 0.00821 |
| 3/1/2017 | <0.005 | 0.00905 (D) | <0.005 | 0.00869 |
| 11/14/2017 | 0.00185 (D) | 0.0067 (D) | 0.0036 (D) | 0.0072 (D) |
| 2/15/2018 | 0.0033 | 0.0097 | 0.005 | 0.012 |
| 9/26/2018 | 0.003 | 0.0089 | 0.00375 (D) | 0.0098 |
| 5/15/2019 | 0.0025 (D) | 0.0081 (D) | 0.0031 (D) | 0.0086 (D) |
| 9/24/2019 | | 0.0041 (D) | | |
| 9/25/2019 | 0.0028 (D) | | 0.0031 (D) | 0.0086 (D) |
| Mean | 0.004112 | 0.008988 | 0.004504 | 0.008612 |
| Std. Dev. | 0.001212 | 0.002021 | 0.0007928 | 0.001221 |
| Upper Lim. | 0.005 | 0.01049 | 0.005 | 0.00941 |
| Lower Lim. | 0.0025 | 0.007485 | 0.0036 | 0.007753 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Rad 226+228 Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

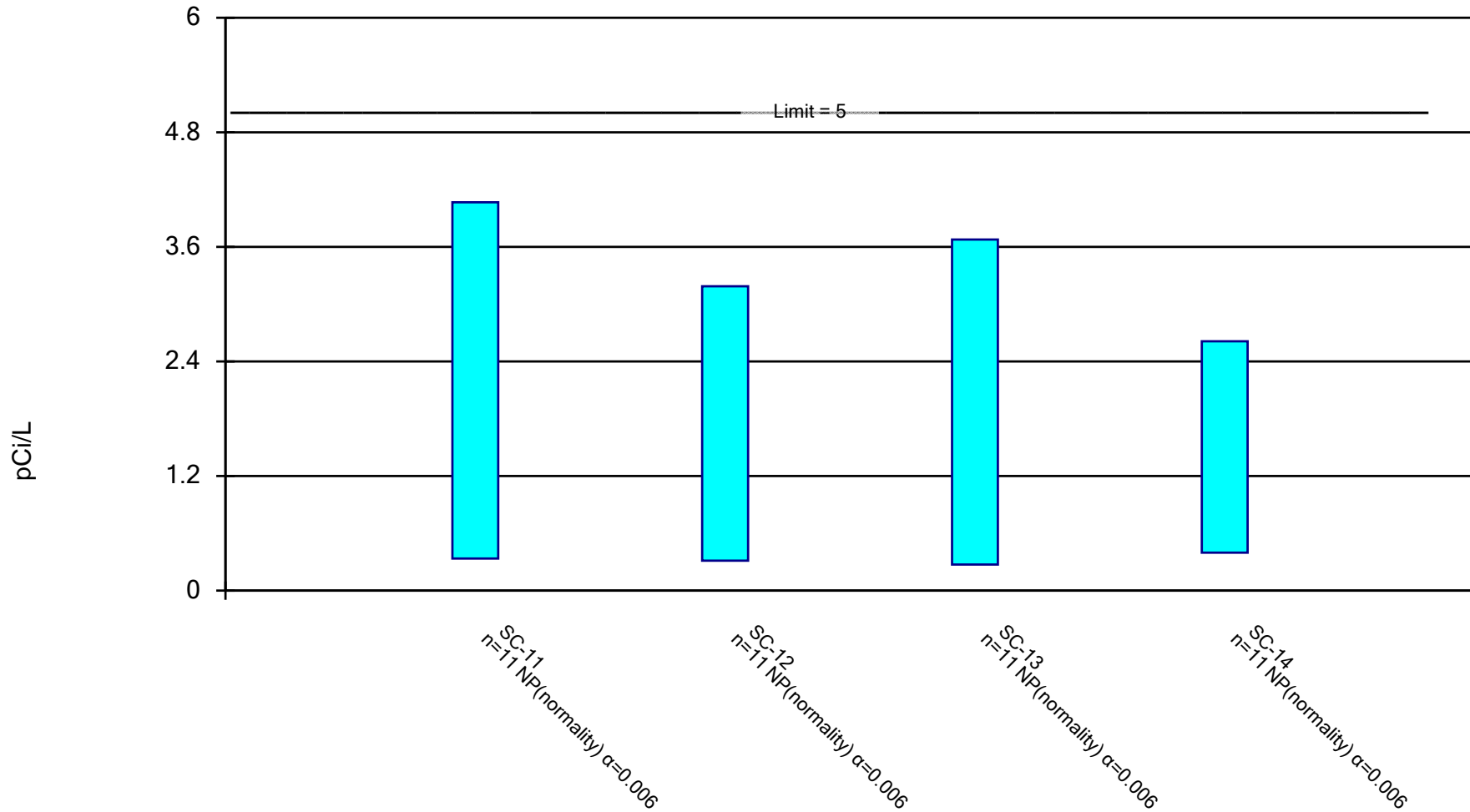
Constituent: Rad 226+228 (pCi/L) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|----------|--------|-------------|-------------|--------|--------|
| 6/22/2016 | 1.475 | 0.3375 | 1.317 (D) | | | 1.257 |
| 6/23/2016 | | | | 1.321 | | |
| 6/27/2016 | | | | | 1.111 | |
| 8/2/2016 | 1.38 | 0.295 | 0.412 | 0.3135 | 1.7775 | |
| 8/3/2016 | | | | | | 0.646 |
| 9/19/2016 | 2.136 | 0.363 | 0.6405 | 0.3795 | 0.496 | |
| 9/20/2016 | | | | | | 0.361 |
| 10/12/2016 | 1.913 | 0.3475 | 1.404 | 0.616 | 0.4955 | |
| 10/13/2016 | | | | | | 0.324 |
| 11/15/2016 | 2.128 | 0.854 | 1.354 | 0.395 | 0.6865 | |
| 11/16/2016 | | | | | | 0.3775 |
| 1/18/2017 | 1.874 | 0.471 | 1.494 (D) | 0.617 | 0.6095 | |
| 1/19/2017 | | | | | | 0.704 |
| 2/14/2017 | 2.31 (D) | 0.7225 | 1.841 | 2.636 | 1.366 | |
| 2/15/2017 | | | | | | 1.114 |
| 2/28/2017 | 1.628 | 0.446 | 1.59325 (D) | 1.8245 | 0.414 | |
| 3/1/2017 | | | | | | 0.432 |
| 11/13/2017 | 6.445 | 4.255 | 5.16 | 3.575 | 2.225 | |
| 11/14/2017 | | | | | | 5.16 |
| 2/14/2018 | 5.23 | 2.1715 | 3.22 | 2.23025 (D) | 2.79 | |
| 2/15/2018 | | | | | | 3.8 |
| 9/24/2019 | 1.628 | 0.4605 | 1.444 | 0.548 | 0.69 | |
| 9/25/2019 | | | | | | 0.949 |
| Mean | 2.559 | 0.9749 | 1.807 | 1.314 | 1.151 | 1.375 |
| Std. Dev. | 1.669 | 1.213 | 1.32 | 1.106 | 0.8002 | 1.596 |
| Upper Lim. | 5.23 | 2.172 | 2.703 | 2.089 | 1.722 | 1.893 |
| Lower Lim. | 1.475 | 0.3375 | 0.8279 | 0.4463 | 0.5269 | 0.403 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Rad 226+228 Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

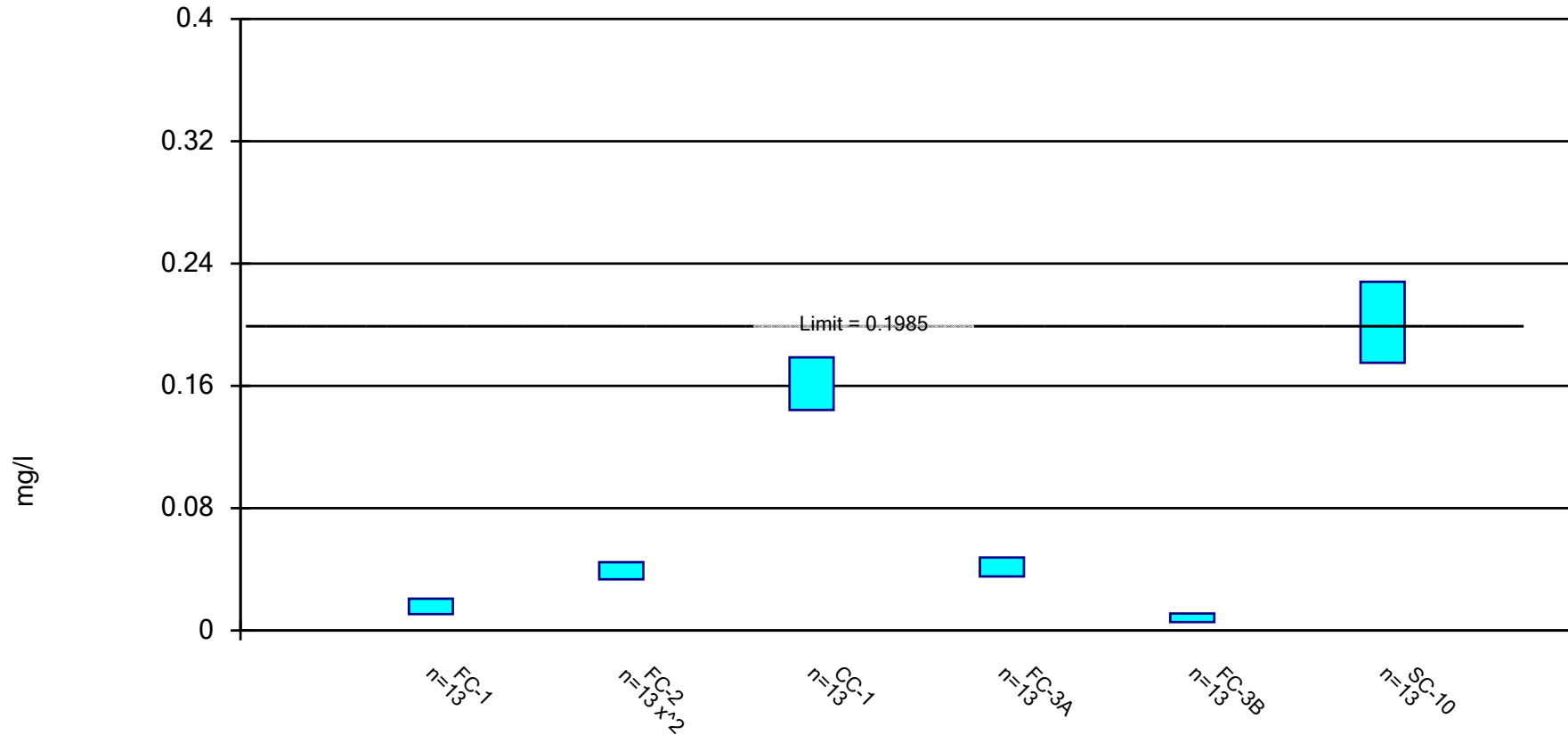
Constituent: Rad 226+228 (pCi/L) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|------------|------------|-----------|--------|
| 6/22/2016 | 2.295 | 0.253 | 0.2705 | 0.786 |
| 8/3/2016 | 0.508 | 0.528 | 0.2735 | 0.6375 |
| 9/20/2016 | 0.4555 | 0.3585 | 0.448 | 0.603 |
| 10/13/2016 | 0.3365 | 0.437 | 0.305 | 0.4535 |
| 11/16/2016 | 0.286 | 0.3135 | 0.341 | 0.3695 |
| 1/19/2017 | 0.4185 | 0.393 | 0.661 | 0.497 |
| 2/15/2017 | 0.751 | 0.6565 | 0.581 | 0.3975 |
| 3/1/2017 | 0.7725 | 0.355 | 0.318 | 0.4345 |
| 11/14/2017 | 4.0675 (D) | 3.94 | 4.55 | 4.465 |
| 2/15/2018 | 4.1 | 3.1875 (D) | 3.677 | 2.612 |
| 9/25/2019 | 0.418 | 0.5735 | 0.596 (D) | 0.4 |
| Mean | 1.31 | 0.9996 | 1.093 | 1.06 |
| Std. Dev. | 1.481 | 1.284 | 1.512 | 1.3 |
| Upper Lim. | 4.068 | 3.188 | 3.677 | 2.612 |
| Lower Lim. | 0.3365 | 0.3135 | 0.2735 | 0.3975 |

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

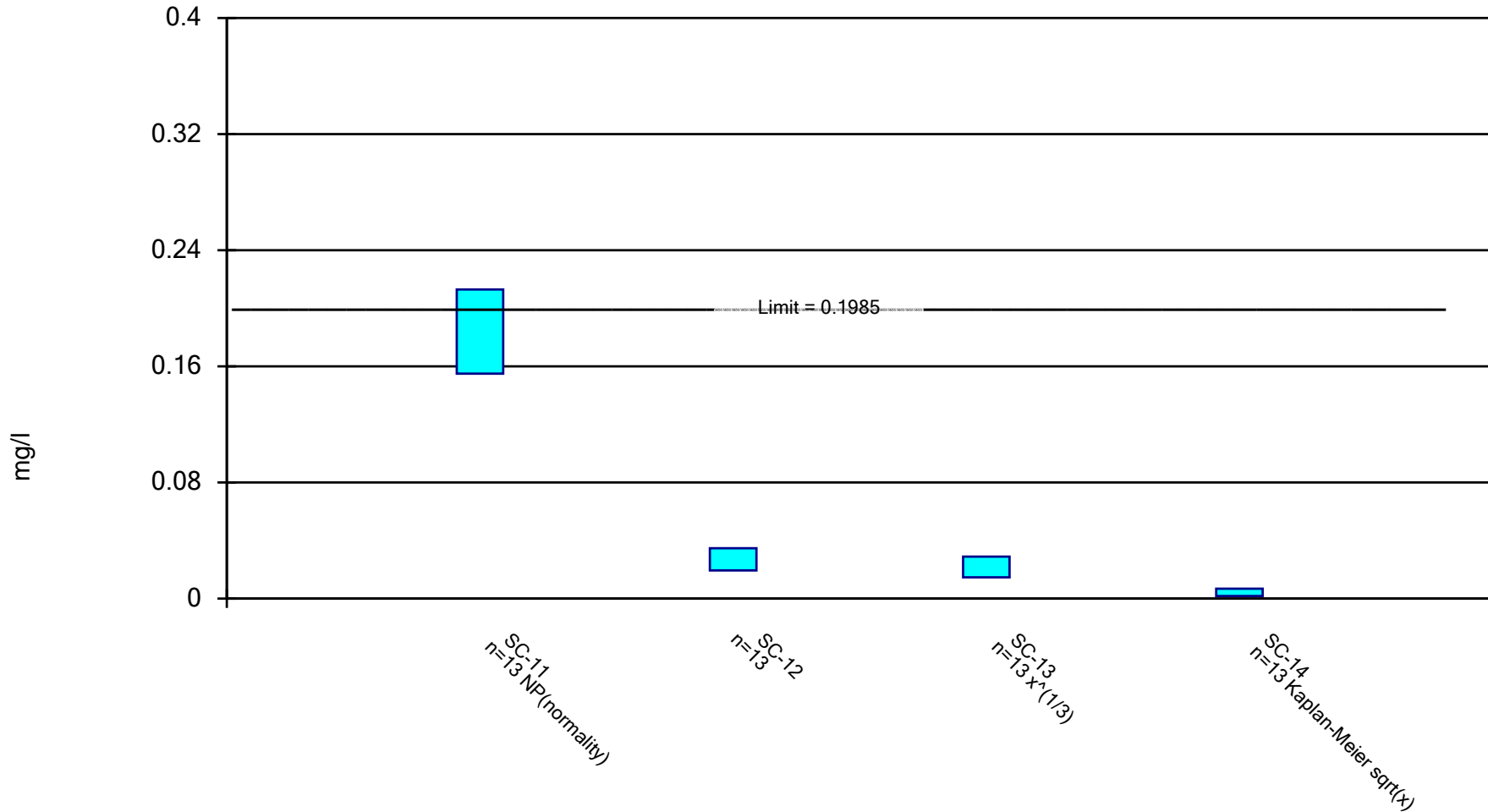
Constituent: Selenium, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|-------------|-------------|------------|-------------|------------|-------------|
| 6/22/2016 | 0.016 | 0.0471 | 0.1985 (D) | | | 0.212 |
| 6/23/2016 | | | | 0.0393 | | |
| 6/27/2016 | | | | | 0.0057 | |
| 8/2/2016 | 0.0098 (D) | 0.0412 | 0.186 | 0.0382 | 0.0069 | |
| 8/3/2016 | | | | | | 0.216 (D) |
| 9/19/2016 | 0.028 (D) | 0.04895 (D) | 0.157 (D) | 0.0364 (D) | 0.0112 (D) | |
| 9/20/2016 | | | | | | 0.201 (D) |
| 10/12/2016 | 0.0167 (D) | <0.001 (D1) | 0.138 (D) | 0.04245 (D) | 0.0115 (D) | |
| 10/13/2016 | | | | | | 0.194 (D) |
| 11/15/2016 | 0.0136 | 0.0356 (D) | 0.145 (D) | 0.0355 (D) | 0.0106 (D) | |
| 11/16/2016 | | | | | | 0.201 (DP1) |
| 1/18/2017 | 0.0254 (D) | 0.0452 (D) | 0.1385 (D) | 0.039 (D) | 0.0067 (D) | |
| 1/19/2017 | | | | | | 0.22 (D) |
| 2/14/2017 | 0.0141 (DT) | 0.0388 (DT) | 0.1415 (D) | 0.0352 (DT) | 0.0092 (D) | |
| 2/15/2017 | | | | | | 0.22 (D) |
| 2/28/2017 | 0.00375 (D) | 0.0367 (D) | 0.143 (D) | 0.0263 (D) | 0.0011 (D) | |
| 3/1/2017 | | | | | | 0.224 (D) |
| 11/13/2017 | 0.015 (D) | 0.0381 (D) | 0.135 (D) | 0.0552 (D) | 0.0107 (D) | |
| 11/14/2017 | | | | | | 0.168 (D) |
| 2/14/2018 | 0.0068 | 0.044 | 0.169 | 0.0543 (D) | 0.0036 | |
| 2/15/2018 | | | | | | 0.249 |
| 9/25/2018 | 0.02165 (D) | 0.0371 | 0.17 | 0.0512 | 0.0142 | |
| 9/26/2018 | | | | | | 0.111 (D) |
| 5/14/2019 | 0.0178 (D) | 0.0402 (D) | 0.188 (D) | 0.04725 (D) | 0.005 (D) | |
| 5/15/2019 | | | | | | 0.235 (D) |
| 9/24/2019 | 0.01665 (D) | 0.0376 (D) | 0.19 (D) | 0.0399 (D) | 0.0115 (D) | |
| 9/25/2019 | | | | | | 0.17 (D) |
| Mean | 0.01579 | 0.03777 | 0.1615 | 0.04155 | 0.0083 | 0.2016 |
| Std. Dev. | 0.006778 | 0.01197 | 0.02315 | 0.008351 | 0.003782 | 0.03565 |
| Upper Lim. | 0.02083 | 0.04469 | 0.1787 | 0.04776 | 0.01111 | 0.2281 |
| Lower Lim. | 0.01075 | 0.03348 | 0.1443 | 0.03534 | 0.005488 | 0.1751 |

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

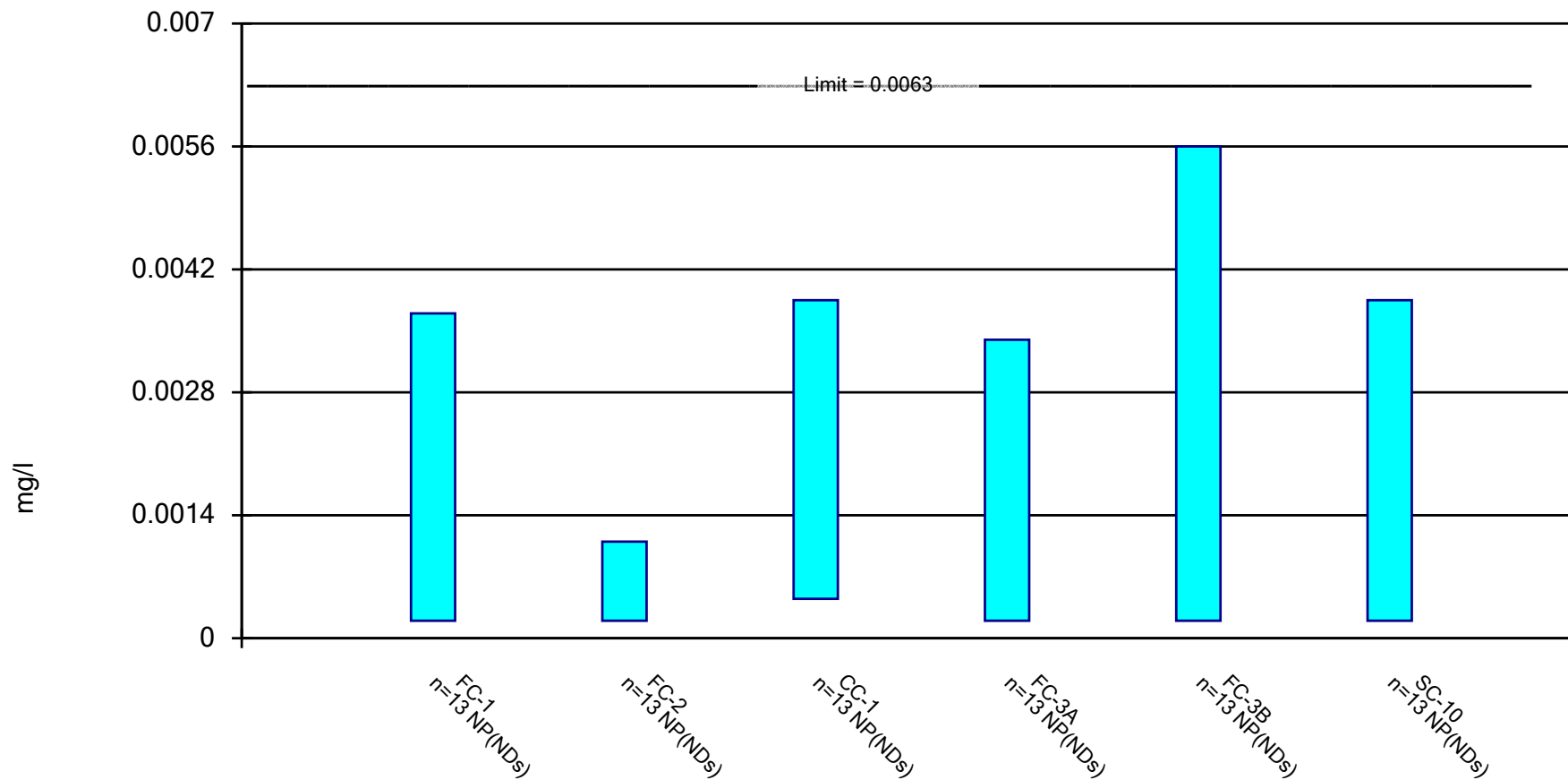
Constituent: Selenium, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|-------------|--------------|-------------|--------------|
| 6/22/2016 | 0.168 | 0.0203 | 0.0311 | 0.0031 |
| 8/3/2016 | 0.155 | 0.0197 | 0.0236 | 0.0035 |
| 9/20/2016 | 0.188 (D) | 0.0252 (D) | 0.0228 (D) | 0.0062 (D) |
| 10/13/2016 | 0.168 (D) | 0.05055 (D) | 0.0558 (D) | 0.0192 (D) |
| 11/16/2016 | 0.163 (DP1) | 0.0237 (DP1) | 0.00765 (D) | <0.001 (D1P) |
| 1/19/2017 | 0.196 (D) | 0.0337 (D) | 0.0202 (D) | 0.0013 (D) |
| 2/15/2017 | 0.194 (D) | 0.03 (D) | 0.0164 (D) | 0.0033 (D) |
| 3/1/2017 | 0.189 (D) | 0.02355 (D) | 0.0177 (D) | <0.001 (D1) |
| 11/14/2017 | 0.213 (D) | 0.0252 (D) | 0.0236 (D) | 0.0046 (D) |
| 2/15/2018 | 0.355 | 0.0437 | 0.0204 | 0.0055 |
| 9/26/2018 | 0.107 (D) | 0.0231 | 0.01845 (D) | 0.002 |
| 5/15/2019 | 0.186 (D) | 0.0198 (D) | 0.0185 (D) | 0.005 (D) |
| 9/24/2019 | | 0.0134 (D) | | |
| 9/25/2019 | 0.169 (D) | | 0.015 (D) | 0.0045 (D) |
| Mean | 0.1885 | 0.02707 | 0.0224 | 0.004554 |
| Std. Dev. | 0.05631 | 0.01027 | 0.01142 | 0.004771 |
| Upper Lim. | 0.213 | 0.03471 | 0.02896 | 0.0068 |
| Lower Lim. | 0.155 | 0.01943 | 0.01465 | 0.001821 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

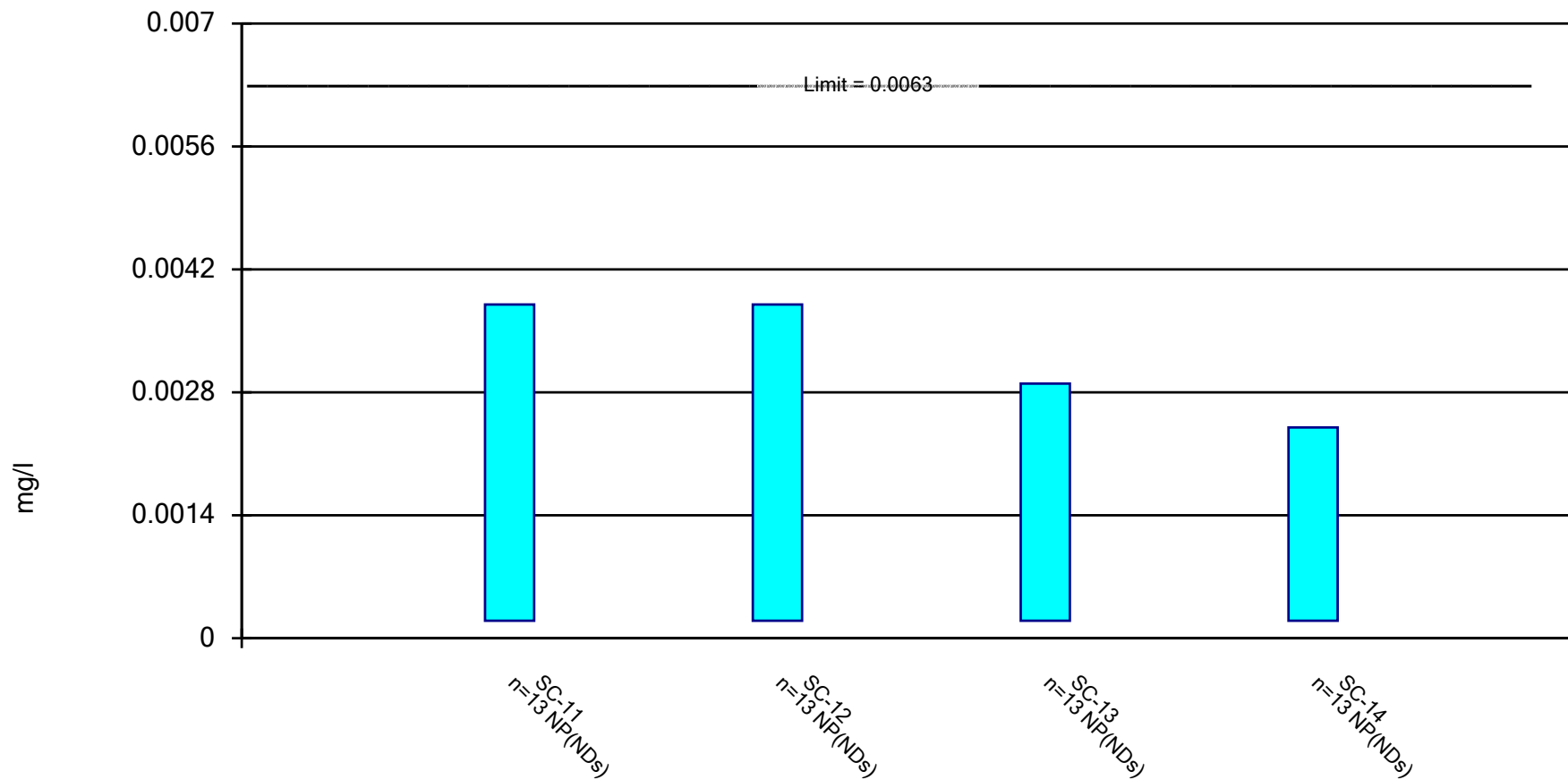
Constituent: Thallium, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | CC-1 | FC-3A | FC-3B | SC-10 |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | 0.0002 | <0.0002 | 0.000455 (D) | | | <0.0002 |
| 6/23/2016 | | | | <0.0002 | | |
| 6/27/2016 | | | | | <0.0002 | |
| 8/2/2016 | <0.0002 (D) | <0.0002 | 0.00045 | <0.0002 | <0.0002 | |
| 8/3/2016 | | | | | | <0.0002 (D) |
| 9/19/2016 | 0.00027 (D) | 0.000545 (D) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | |
| 9/20/2016 | | | | | | <0.0002 (D1) |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D) | <0.0002 (D1) | |
| 10/13/2016 | | | | | | <0.0002 (D1) |
| 11/15/2016 | 0.0061 (D) | <0.0002 (D1) | 0.0063 (D) | 0.0057 (D) | 0.0056 (D) | |
| 11/16/2016 | | | | | | 0.0077 (D) |
| 1/18/2017 | <0.0005 (D1) | <0.0005 (D1) | 0.0014 (D) | 0.00069 (D) | 0.00098 (D) | |
| 1/19/2017 | | | | | | 0.00091 (D) |
| 2/14/2017 | 0.0037 (D) | 0.0036 (D) | 0.00385 (D) | 0.0034 (D) | 0.0062 (D) | |
| 2/15/2017 | | | | | | 0.00385 (D) |
| 2/28/2017 | 0.0011 (D) | 0.0011 (D) | 0.0014 (D) | 0.0011 (D) | 0.00091 (D) | |
| 3/1/2017 | | | | | | 0.00082 (D) |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | |
| 11/14/2017 | | | | | | <0.0005 (D1) |
| 2/14/2018 | <0.002 | <0.001 | <0.002 | <0.001 (D) | <0.001 | |
| 2/15/2018 | | | | | | <0.0004 |
| 9/25/2018 | <0.0005 (D) | <0.0005 | <0.0005 | <0.0005 | <0.0005 | |
| 9/26/2018 | | | | | | <0.0005 (D1) |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 5/15/2019 | | | | | | <0.0005 (D1D) |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | |
| 9/25/2019 | | | | | | <0.0005 (D1D) |
| Mean | 0.001252 | 0.0007342 | 0.001404 | 0.00113 | 0.001345 | 0.001268 |
| Std. Dev. | 0.00176 | 0.0009069 | 0.001786 | 0.001615 | 0.002046 | 0.002161 |
| Upper Lim. | 0.0037 | 0.0011 | 0.00385 | 0.0034 | 0.0056 | 0.00385 |
| Lower Lim. | 0.0002 | 0.0002 | 0.00045 | 0.0002 | 0.0002 | 0.0002 |

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, Total Analysis Run 1/13/2020 11:52 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Confidence Interval

Constituent: Thallium, Total (mg/l) Analysis Run 1/13/2020 11:54 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

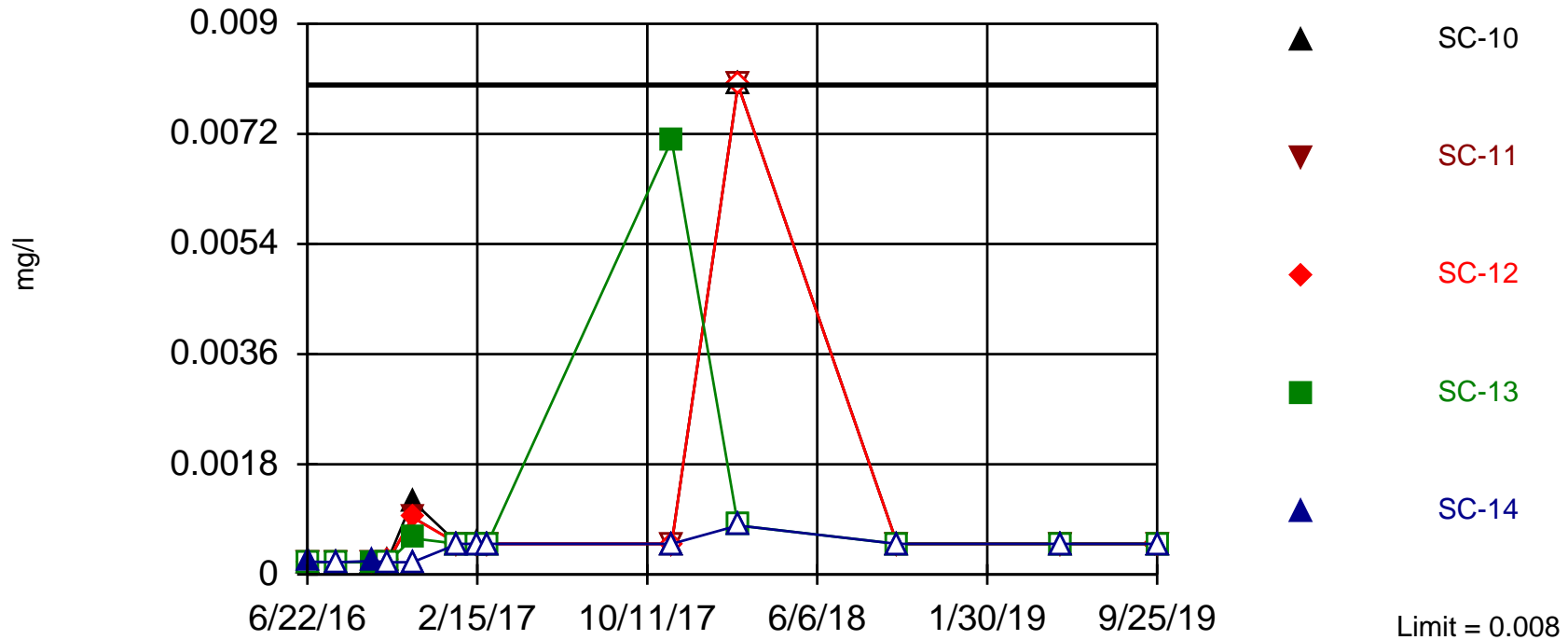
| | SC-11 | SC-12 | SC-13 | SC-14 |
|------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 8/3/2016 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| 9/20/2016 | <0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 10/13/2016 | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) |
| 11/16/2016 | 0.0063 (D) | 0.006 (D) | 0.0029 (D) | 0.0024 (D) |
| 1/19/2017 | 0.0012 (D) | 0.0014 (D) | 0.0015 (D) | 0.0014 (D) |
| 2/15/2017 | 0.0038 (D) | 0.0038 (D) | 0.0038 (D) | 0.0035 (D) |
| 3/1/2017 | 0.00077 (D) | 0.00076 (D) | 0.00077 (D) | 0.00075 (D) |
| 11/14/2017 | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) |
| 2/15/2018 | <0.0004 | <0.002 | <0.001 | <0.001 |
| 9/26/2018 | <0.0005 (D1) | <0.0005 | <0.0005 (D) | <0.0005 |
| 5/15/2019 | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/24/2019 | | <0.0005 (D1D) | | |
| 9/25/2019 | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 |
| Mean | 0.001175 | 0.001289 | 0.0009823 | 0.0009115 |
| Std. Dev. | 0.001815 | 0.001745 | 0.001129 | 0.0009954 |
| Upper Lim. | 0.0038 | 0.0038 | 0.0029 | 0.0024 |
| Lower Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 81.54% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Antimony, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

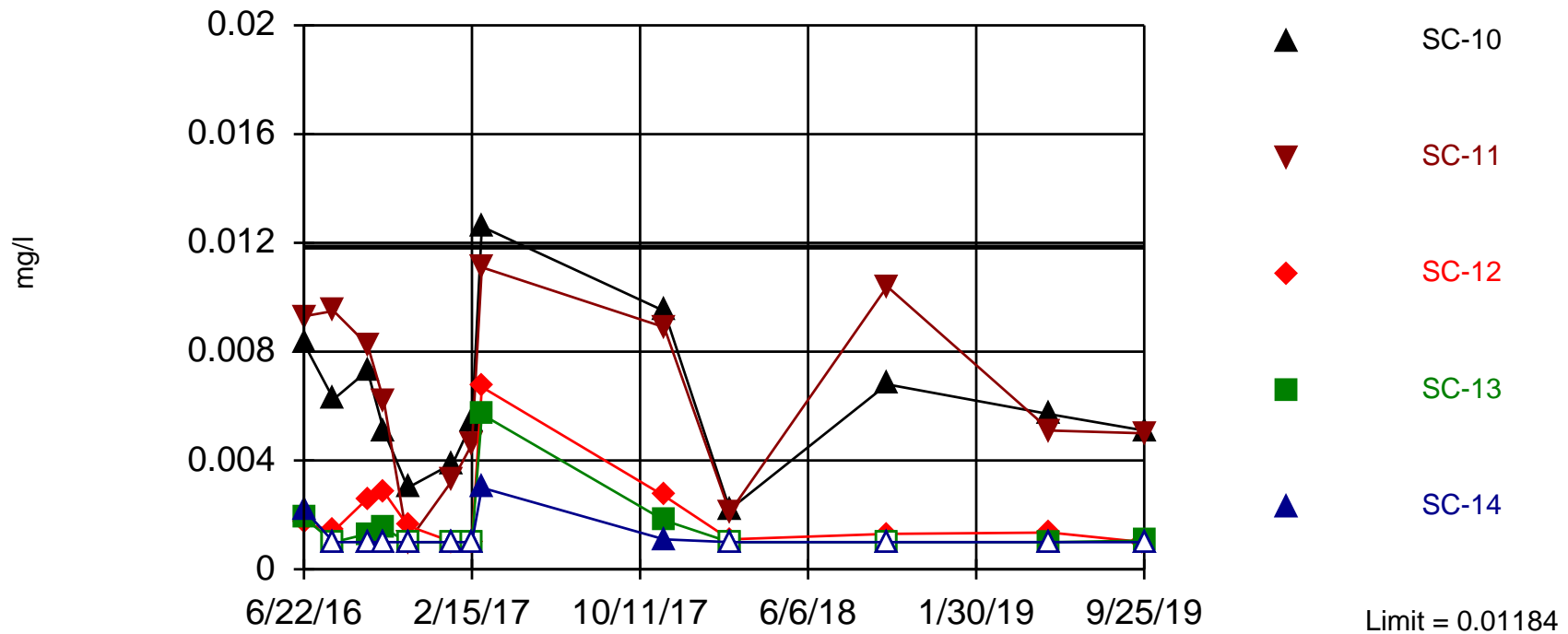
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 (D) | 0.00021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/23/2016 | | | | | | | | | 0.00021 | |
| 6/27/2016 | | | | | | | | | | 0.00065 |
| 8/2/2016 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | <0.0002 | 0.00061 |
| 8/3/2016 | | | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 | | <0.0002 | | |
| 9/19/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D1) | <0.0002 (D1) |
| 9/20/2016 | | | 0.00022 (D) | 0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 10/12/2016 | <0.0002 (D1) | 0.0004 (D) | | | | | <0.0002 (D1) | | 0.00026 (D) | 0.00032 (D) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00025 (D) | 0.00023 (D) | | 0.0002 (D) | | |
| 11/15/2016 | 0.0016 (D) | 0.0015 (D) | | | | | <0.0002 (D1) | | 0.0015 (D) | 0.0015 (D) |
| 11/16/2016 | | | <0.0002 (D1) | 0.00059 (D) | 0.0012 (D) | 0.00093 (D) | | 0.00094 (D) | | |
| 1/18/2017 | <0.0005 (D1P) | <0.0005 (D1) | | | | | <0.0005 (D1P) | | 0.00055 (D) | <0.0005 (D1) |
| 1/19/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | 0.00066 (D) |
| 2/15/2017 | | | <0.0005 (D1) | <0.0005 (D1) | 0.00054 (D) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/28/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 3/1/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | 0.0071 (DT) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.008 | <0.008 | | | | | <0.0008 | | <0.0008 (D) | <0.0008 |
| 2/15/2018 | | | <0.0008 | <0.0008 | <0.008 | <0.008 | | <0.008 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 | <0.0005 | | <0.0005 | | |
| 5/14/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.06086, Std. Dev.=0.02244, n=64, 14.06% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9519, critical = 0.947. Kappa = 2.138 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Prediction Limit

Constituent: Arsenic, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

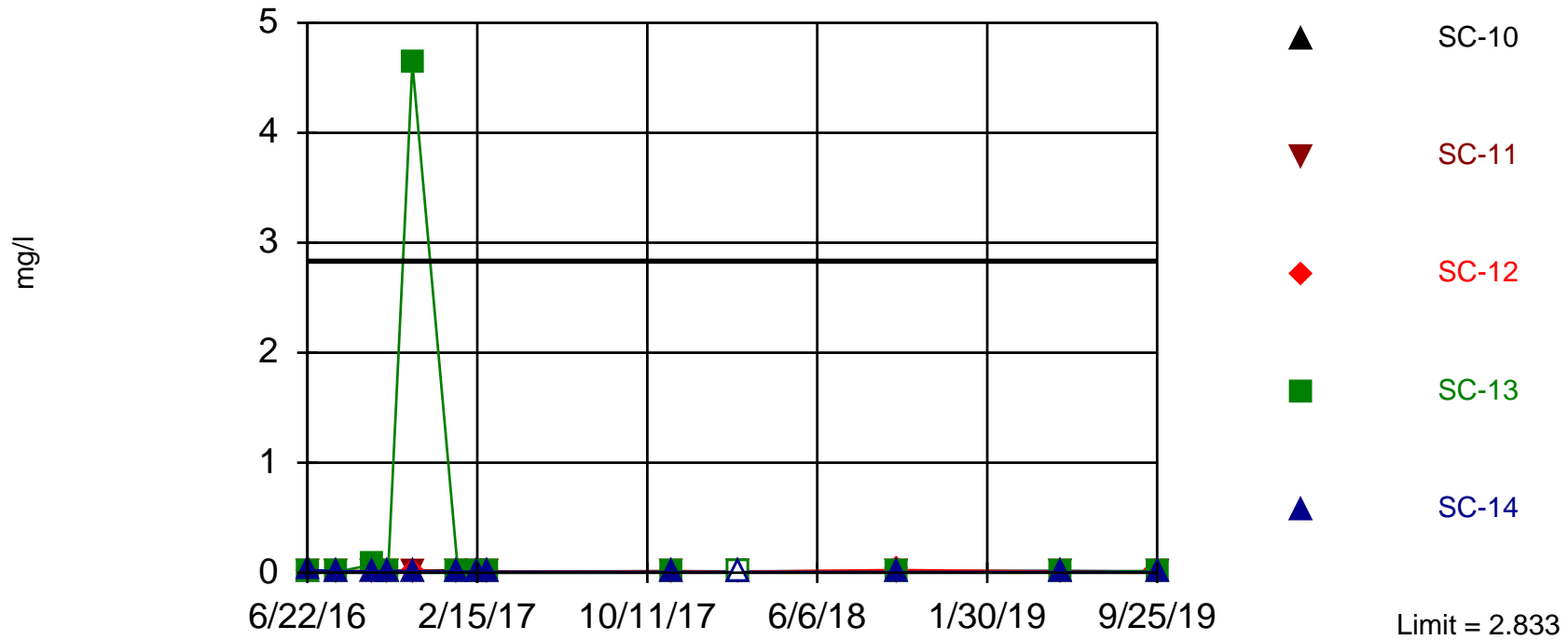
| | FC-1 | SC-14 | SC-13 | SC-12 | SC-11 | CC-1 | FC-2 | SC-10 | FC-3A | FC-3B |
|------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|------------|
| 6/22/2016 | 0.0042 | 0.0022 | 0.0019 | 0.0017 | 0.0093 | 0.0109 (D) | 0.0025 | 0.0083 | | |
| 6/23/2016 | | | | | | | | | 0.0031 | |
| 6/27/2016 | | | | | | | | | | 0.0026 |
| 8/2/2016 | 0.0025 (D) | | | | | 0.0105 | 0.0016 | | 0.0021 | 0.0031 |
| 8/3/2016 | | <0.001 | <0.001 | 0.0014 | 0.0095 | | | 0.00625 (D) | | |
| 9/19/2016 | 0.0094 (D) | | | | | 0.0089 (D) | 0.0036 (D) | | 0.0029 (D) | 0.0051 (D) |
| 9/20/2016 | | <0.001 (D1) | 0.0013 (D) | 0.0026 (D) | 0.00825 (D) | | | 0.0073 (D) | | |
| 10/12/2016 | 0.0023 (D) | | | | | 0.0071 (D) | <0.001 (D1) | | 0.001325 (D) | 0.0056 (D) |
| 10/13/2016 | | <0.001 (D1) | 0.0015 (D) | 0.00285 (D) | 0.0062 (D) | | | 0.0051 (D) | | |
| 11/15/2016 | 0.0036 (D) | | | | | 0.0054 (D) | <0.001 (D1) | | 0.0018 (D) | 0.007 (D) |
| 11/16/2016 | | <0.001 (D1) | <0.001 (D) | 0.0016 (D) | <0.001 (D1) | | | 0.003 (D) | | |
| 1/18/2017 | 0.0061 (D) | | | | | 0.00255 (D) | 0.0011 (D) | | <0.001 (D1) | 0.0057 (D) |
| 1/19/2017 | | <0.001 (D1) | <0.001 (D1) | <0.001 (D1) | 0.0033 (D) | | | 0.0039 (D) | | |
| 2/14/2017 | <0.001 (D1) | | | | | 0.00495 (D) | <0.001 (D1) | | <0.001 (D1) | 0.004 (D) |
| 2/15/2017 | | <0.001 (D) | <0.001 (D1) | <0.001 (D1) | 0.0046 (D) | | | 0.0054 (D) | | |
| 2/28/2017 | 0.00625 (D) | | | | | 0.011 (D) | 0.0076 (D) | | 0.0069 (D) | 0.0081 (D) |
| 3/1/2017 | | 0.003 (D) | 0.0057 (D) | 0.0067 (D) | 0.0111 (D) | | | 0.0126 (D) | | |
| 11/13/2017 | 0.0041 (D) | | | | | 0.008 (D) | 0.0025 (D) | | 0.0022 (D) | 0.0064 (D) |
| 11/14/2017 | | 0.0011 (D) | 0.0018 (D) | 0.0027 (D) | 0.0089 (D) | | | 0.0095 (D) | | |
| 2/14/2018 | <0.002 | | | | | | <0.001 | | 0.00115 (D) | 0.0026 |
| 2/15/2018 | | <0.001 | <0.001 | 0.0011 | 0.0021 | | | 0.0022 | | |
| 9/25/2018 | 0.005 (D) | | | | | 0.0115 | 0.0014 | | 0.003 | 0.0074 |
| 9/26/2018 | | <0.001 | <0.001 (D) | 0.0013 | 0.0104 | | | 0.0068 | | |
| 5/14/2019 | 0.0029 | | | | | 0.0072 (D) | 0.0013 (D) | | 0.0017 (D) | 0.002 (D) |
| 5/15/2019 | | <0.001 (D) | 0.001 (D) | 0.00135 (D) | 0.0051 (D) | | | 0.0057 (D) | | |
| 9/24/2019 | 0.00295 (D) | | | <0.001 (D1D) | | 0.0081 (D) | <0.001 (D1D) | | 0.0016 (D) | 0.0044 (D) |
| 9/25/2019 | | <0.001 (D1D) | 0.00105 (D) | | 0.005 (D) | | | 0.0051 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 6.154% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Barium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

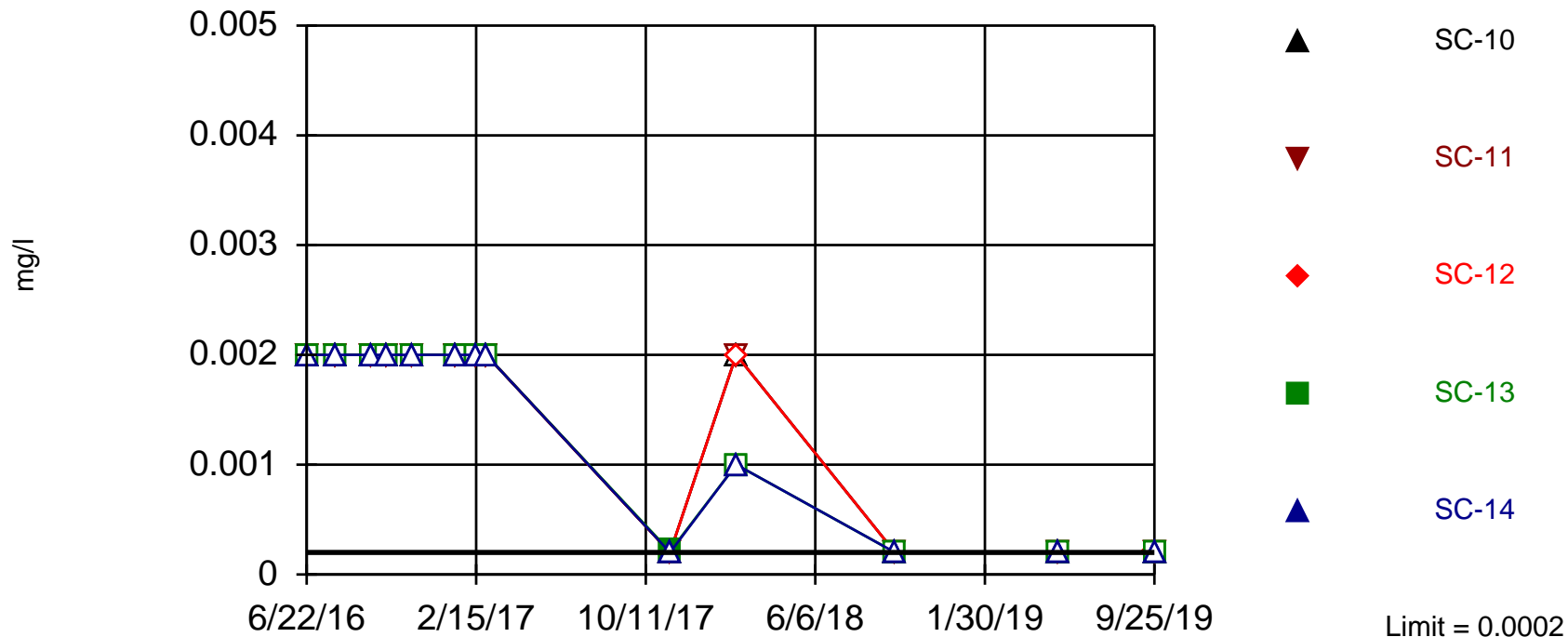
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|--------------|------------|--------------|--------------|-------------|--------------|-------------|------------|-------------|------------|
| 6/22/2016 | 0.00954 | 0.0184 | 2.83285 (D) | 0.017 | 0.0112 | 0.00979 | 0.00503 | 0.024 | | |
| 6/23/2016 | | | | | | | | | 0.034 | |
| 6/27/2016 | | | | | | | | | | 0.0336 |
| 8/2/2016 | 0.008725 (D) | | 0.00512 | | | | <0.005 | | 0.0202 | 0.0253 |
| 8/3/2016 | | 0.0138 (D) | | 0.0165 | 0.0133 | 0.00703 | | 0.0131 | | |
| 9/19/2016 | 0.00928 | | 0.00542 | | | | 0.00525 (D) | | 0.0218 | 0.0183 |
| 9/20/2016 | | 0.013 | | 0.009275 (D) | | 0.0736 | | 0.0109 | | |
| 10/12/2016 | 0.00905 | | 0.00593 | | | | 0.00536 | | 0.03735 (D) | 0.0184 |
| 10/13/2016 | | 0.0141 | | 0.0225 | 0.01415 (D) | 0.00797 | | 0.0163 | | |
| 11/15/2016 | 0.0102 | | 0.00608 | | | | 0.00516 | | 0.01735 (D) | 0.0652 |
| 11/16/2016 | | 0.0178 | | 0.016 | 0.0178 | 4.629645 (D) | | 0.0136 | | |
| 1/18/2017 | 0.00929 | | 0.005675 (D) | | | | 0.00539 | | 0.0164 | 0.0244 |
| 1/19/2017 | | 0.0216 | | 0.0117 | 0.0108 | 0.0075 | | 0.00905 | | |
| 2/14/2017 | 0.01 | | 0.006005 (D) | | | | 0.00566 | | 0.0167 | 0.023 |
| 2/15/2017 | | 0.0145 (D) | | 0.0156 | 0.0127 | 0.00742 | | 0.00766 | | |
| 2/28/2017 | 0.009 (D) | | <0.005 | | | | 0.0054 | | 0.0148 | 0.0208 |
| 3/1/2017 | | 0.0105 | | 0.00732 | 0.00781 (D) | 0.00603 | | 0.0063 | | |
| 11/13/2017 | 0.0082 (D) | | 0.004 (D) | | | | 0.00435 (D) | | 0.0259 (D) | 0.0154 (D) |
| 11/14/2017 | | 0.014 (D) | | 0.01395 (D) | 0.0063 (D) | 0.006 (D) | | 0.0052 (D) | | |
| 2/14/2018 | 0.0105 | | <0.01 | | | | <0.01 | | 0.01205 (D) | 0.0196 |
| 2/15/2018 | | 0.0124 | | 0.0089 | 0.0079 | <0.01 | | <0.01 | | |
| 9/25/2018 | 0.00665 (D) | | 0.0039 | | | | 0.004 | | 0.021 | 0.037 |
| 9/26/2018 | | 0.0165 | | 0.0099 | 0.0245 | 0.00575 (D) | | 0.0057 | | |
| 5/14/2019 | 0.0073 | | 0.0044 (D) | | | | 0.0043 (D) | | 0.0265 (D) | 0.0146 (D) |
| 5/15/2019 | | 0.0168 (D) | | 0.0086 (D) | 0.00755 (D) | 0.0046 (D) | | 0.005 (D) | | |
| 9/24/2019 | 0.0073 (D) | | 0.0041 (D) | | 0.007 (D) | | 0.0056 (D) | | 0.0276 (D) | 0.0268 (D) |
| 9/25/2019 | | 0.0124 (D) | | 0.0099 (D) | | 0.0168 (D) | | 0.0049 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 65) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Beryllium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

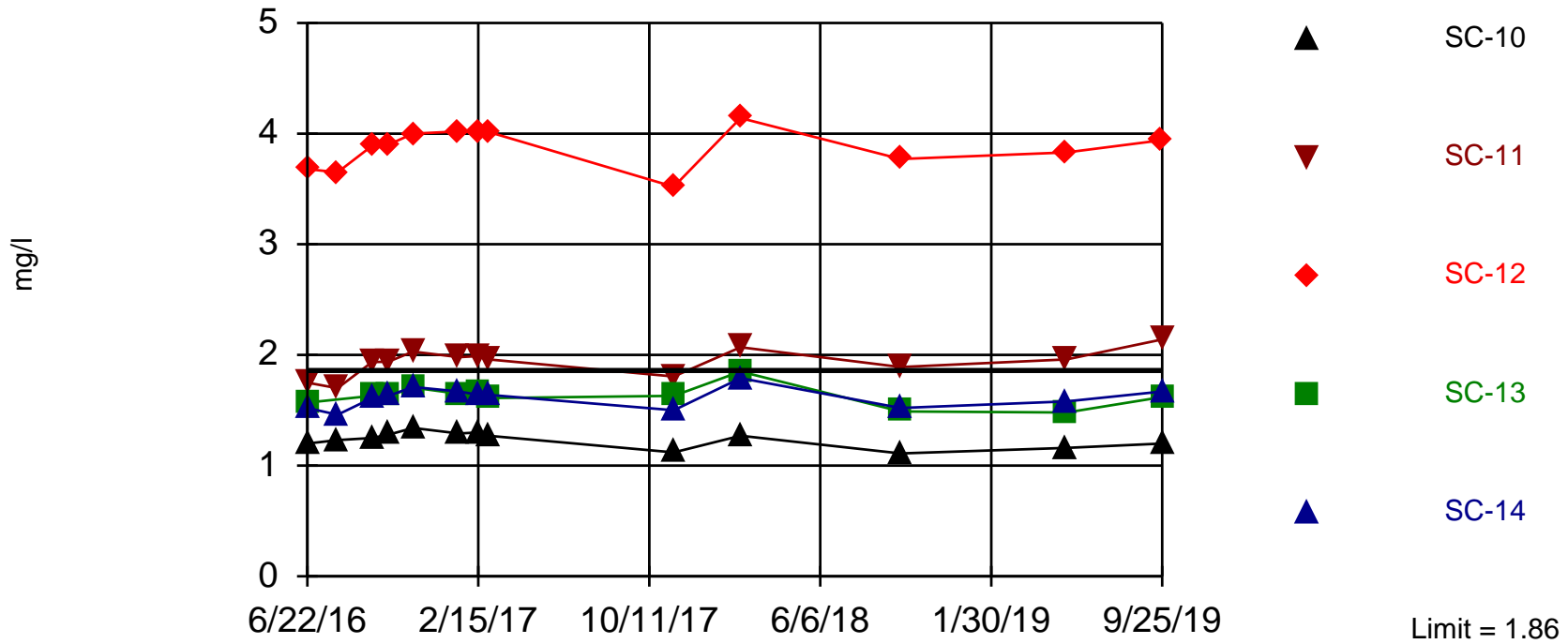
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.002 | <0.002 (D) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | |
| 6/23/2016 | | | | | | | | | <0.002 | |
| 6/27/2016 | | | | | | | | | | <0.002 |
| 8/2/2016 | <0.002 (D) | <0.002 | | | | | <0.002 | | <0.002 | <0.002 |
| 8/3/2016 | | | <0.002 | <0.002 | <0.002 (D) | <0.002 | | <0.002 | | |
| 9/19/2016 | <0.002 | <0.002 | | | | | <0.002 (D) | | <0.002 | <0.002 |
| 9/20/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 (D) | | |
| 10/12/2016 | <0.002 | <0.002 | | | | | <0.002 | | <0.002 (D) | <0.002 |
| 10/13/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 (D) | | <0.002 | | |
| 11/15/2016 | <0.002 | <0.002 | | | | | <0.002 | | <0.002 (D) | <0.002 |
| 11/16/2016 | | | <0.002 | <0.002 (D) | <0.002 | <0.002 | | <0.002 | | |
| 1/18/2017 | <0.002 | <0.002 (D) | | | | | <0.002 | | <0.002 | <0.002 |
| 1/19/2017 | | | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | | |
| 2/14/2017 | <0.002 | <0.002 (D) | | | | | <0.002 | | <0.002 | <0.002 |
| 2/15/2017 | | | <0.002 | <0.002 | <0.002 (D) | <0.002 | | <0.002 | | |
| 2/28/2017 | <0.002 (D) | <0.002 | | | | | <0.002 | | <0.002 | <0.002 |
| 3/1/2017 | | | <0.002 | <0.002 | <0.002 | <0.002 (D) | | <0.002 | | |
| 11/13/2017 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D1) | <0.0002 (D1) |
| 11/14/2017 | | | <0.0002 (D1) | 0.00021 (D) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 2/14/2018 | <0.001 (T) | <0.001 (T) | | | | | <0.0004 (T) | | <0.0004 (TD) | <0.001 (T) |
| 2/15/2018 | | | <0.001 (T) | <0.001 (T) | <0.002 | <0.002 | | <0.002 | | |
| 9/25/2018 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | <0.0002 | <0.0002 |
| 9/26/2018 | | | <0.0002 | <0.0002 (D) | <0.0002 | <0.0002 | | <0.0002 | | |
| 5/14/2019 | <0.0002 | <0.0002 (D1D) | | | | | <0.0002 | | <0.0002 (D1D) | <0.0002 (D1D) |
| 5/15/2019 | | | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | | <0.0002 (D1D) | | |
| 9/24/2019 | <0.0002 (D1D) | <0.0002 (D1D) | | | | <0.0002 (D1D) | <0.0002 (DD1) | | <0.0002 (DD1) | <0.0002 (D1D) |
| 9/25/2019 | | | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | | | <0.0002 (D1D) | | |

Exceeds Limit: SC-11, SC-12

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Boron, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

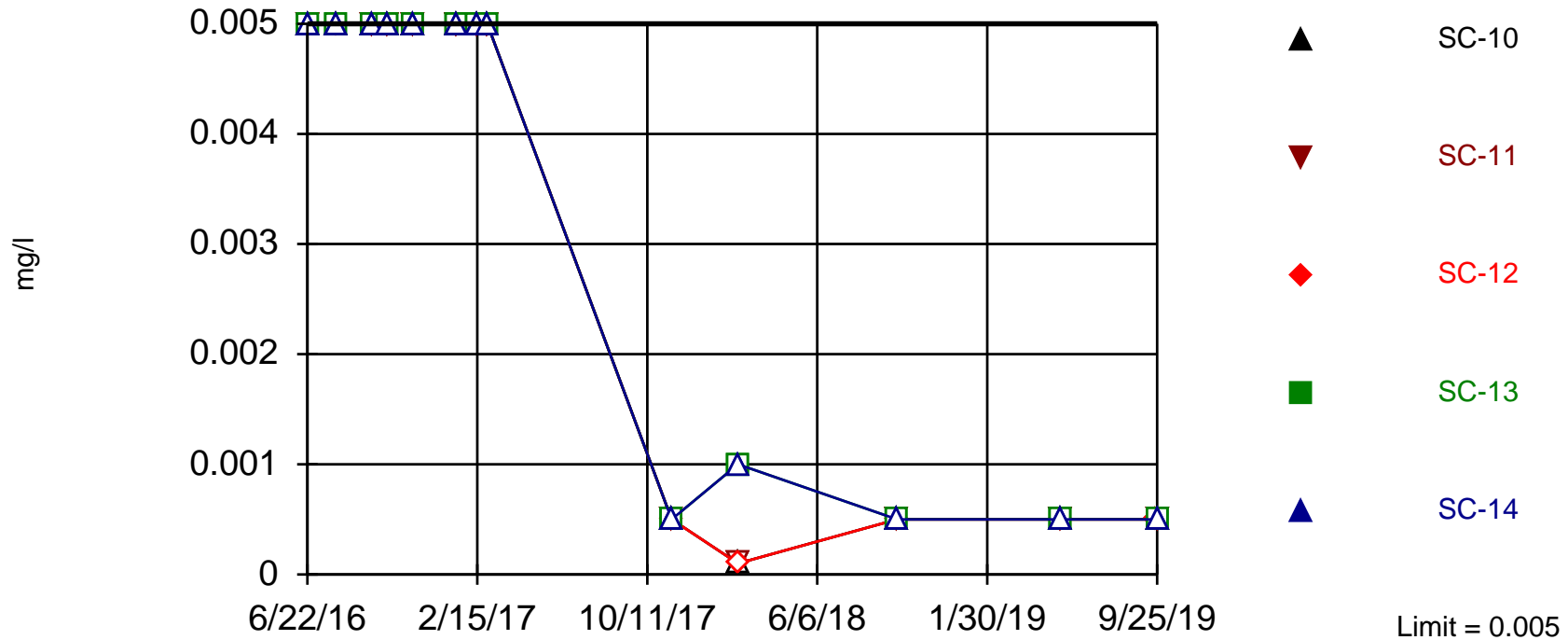
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | FC-2 | SC-14 | SC-13 | FC-3A | FC-3B |
|------------|------------|------------|-----------|------------|-------------|-----------|-----------|------------|-----------|----------|
| 6/22/2016 | 0.976 (T) | 1.2 | 1.07 (D) | 1.75 | 3.68 | 0.901 (T) | 1.52 | 1.57 | | |
| 6/23/2016 | | | | | | | | | 1.31 | |
| 6/27/2016 | | | | | | | | | | 1.09 |
| 8/2/2016 | 0.9285 (D) | | 1.03 | | | 0.902 | | | 1.08 | 1.28 |
| 8/3/2016 | | 1.23 (D) | | 1.7 | 3.65 | | 1.46 | | | |
| 9/19/2016 | 0.932 | | 1.05 | | | 0.937 (D) | | | 1.2 | 1.46 |
| 9/20/2016 | | 1.25 | | 1.935 (D) | 3.89 | | 1.61 | 1.63 | | |
| 10/12/2016 | 0.931 | | 1.1 | | | 0.923 | | | 1.175 (D) | 1.53 |
| 10/13/2016 | | 1.28 | | 1.94 | 3.9 (D) | | 1.63 | 1.63 | | |
| 11/15/2016 | 1.03 | | 1.12 | | | 0.936 | | | 1.185 (D) | 1.68 |
| 11/16/2016 | | 1.34 | | 2.03 | 4 | | 1.71 | 1.705 (D) | | |
| 1/18/2017 | 0.98 | | 1.125 (D) | | | 0.946 | | | 1.19 | 1.66 |
| 1/19/2017 | | 1.29 | | 1.98 | 4.02 | | 1.67 | 1.65 | | |
| 2/14/2017 | 0.972 | | 1.115 (D) | | | 0.934 | | | 1.14 | 1.59 |
| 2/15/2017 | | 1.3 (D) | | 1.99 | 4.02 | | 1.64 | 1.67 | | |
| 2/28/2017 | 0.9495 (D) | | 1.03 (D) | | | 0.956 (D) | | | 1.14 (D) | 1.73 (D) |
| 3/1/2017 | | 1.27 (DT1) | | 1.96 (DT1) | 4.015 (DT1) | | 1.64 (D) | 1.61 (DT1) | | |
| 11/13/2017 | 0.884 | | 1.04 | | | 0.925 (D) | | | 1.05 | 1.69 |
| 11/14/2017 | | 1.12 | | 1.805 (D) | 3.52 | | 1.5 | 1.63 | | |
| 2/14/2018 | 1.05 (D) | | 1.08 (D) | | | 0.957 (D) | | | 1.13 (D) | 1.86 (D) |
| 2/15/2018 | | 1.27 (DT) | | 2.07 (DT) | 4.14 (DT) | | 1.79 (DT) | 1.85 (DT) | | |
| 9/25/2018 | 0.887 (D) | | 1 (D) | | | 0.887 (D) | | | 1.03 (D) | 1.73 (D) |
| 9/26/2018 | | 1.11 (D) | | 1.89 (D) | 3.77 (D) | | 1.52 (D) | 1.49 (D) | | |
| 5/14/2019 | 1.02 | | 1.07 | | | 0.926 | | | 1.04 (D) | 1.3 |
| 5/15/2019 | | 1.16 (T) | | 1.96 (T) | 3.83 (TD) | | 1.58 (T) | 1.48 (T) | | |
| 9/24/2019 | 0.969 (D) | | 1.05 | | 3.94 | 0.948 | | | 1.07 | 1.42 |
| 9/25/2019 | | 1.2 | | 2.14 | | | 1.67 | 1.62 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 95.38% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

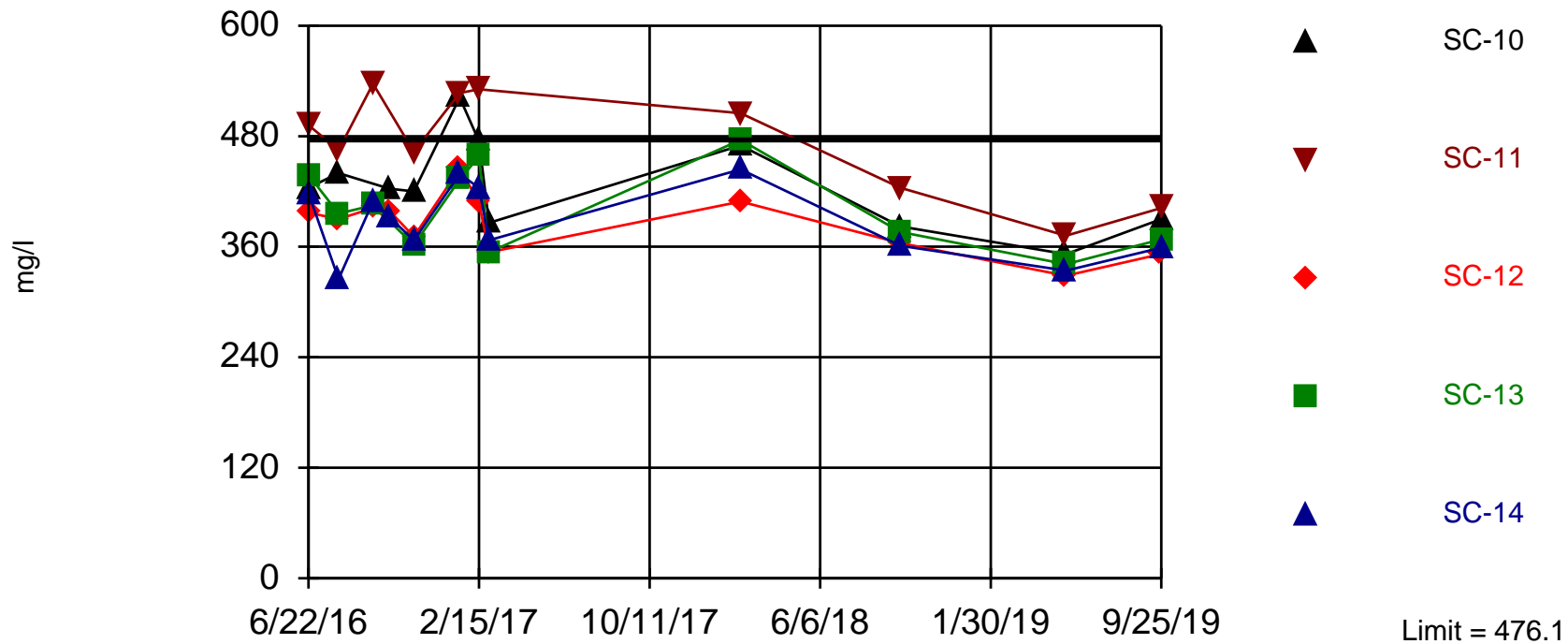
Constituent: Cadmium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | <0.005 |
| 8/2/2016 | <0.005 (D) | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 8/3/2016 | | <0.005 (D) | | | <0.005 | <0.005 | | <0.005 | | |
| 9/19/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 9/20/2016 | | <0.005 | | <0.005 (D) | <0.005 | <0.005 | | <0.005 | | |
| 10/12/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 (D) | <0.005 |
| 10/13/2016 | | <0.005 | | <0.005 | <0.005 (D) | <0.005 | | <0.005 | | |
| 11/15/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 (D) | <0.005 |
| 11/16/2016 | | <0.005 | | <0.005 | <0.005 | <0.005 (D) | | <0.005 | | |
| 1/18/2017 | <0.005 | | <0.005 (D) | | | | <0.005 | | <0.005 | <0.005 |
| 1/19/2017 | | <0.005 | | <0.005 | <0.005 | <0.005 | | <0.005 | | |
| 2/14/2017 | <0.005 | | <0.005 (D) | | | | <0.005 | | <0.005 | <0.005 |
| 2/15/2017 | | <0.005 (D) | | <0.005 | <0.005 | <0.005 | | <0.005 | | |
| 2/28/2017 | <0.005 (D) | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 3/1/2017 | | <0.005 | | <0.005 | <0.005 (D) | <0.005 | | <0.005 | | |
| 11/13/2017 | <0.0005 (D1) | | <0.0005 (D1) | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.001 | | <0.001 | | | | 0.00031 | | 0.000365 (D) | 0.00032 |
| 2/15/2018 | | <0.0001 | | <0.0001 | <0.0001 | <0.001 | | <0.001 | | |
| 9/25/2018 | <0.0005 (D) | | <0.0005 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 (D) | | <0.0005 | | |
| 5/14/2019 | <0.0005 | | <0.0005 (D1D) | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | | |

Within Limit

Prediction Limit Interwell Parametric



Background Data Summary (based on cube transformation): Mean=5.9e7, Std. Dev.=2.3e7, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9692, critical = 0.937. Kappa = 2.162 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Constituent: Calcium, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

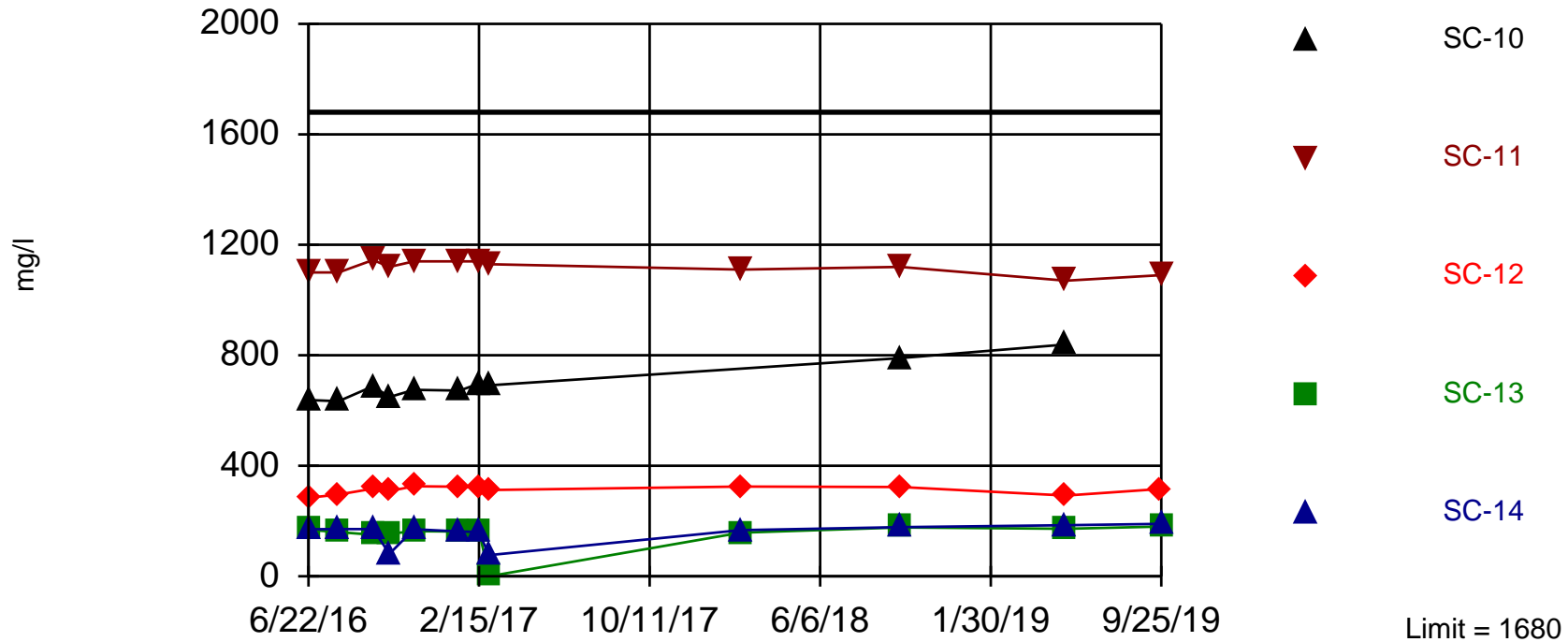
Constituent: Calcium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | SC-10 | SC-11 | SC-12 | CC-1 | SC-14 | SC-13 | FC-3A | FC-3B |
|------------|-------------|-------------|-------------|-----------|-------------|-------------|-----------|-----------|-------------|-----------|
| 6/22/2016 | 404 | 405 (T1D) | 424 (DT1) | 492 (DT1) | 397 (DT1) | 472 (DT1) | 418 (DT1) | 438 (DT1) | | |
| 6/23/2016 | | | | | | | | | 440 (DT1) | |
| 6/27/2016 | | | | | | | | | | 453 (DT1) |
| 8/2/2016 | 410 (DT1) | 440 (DT1) | | | | | | | 417 (DT1) | 412 (DT1) |
| 8/3/2016 | | | 440 (DT1) | 465 (DT1) | 390 (DT1) | | 325 | 396 (DT1) | | |
| 9/19/2016 | 388 (DT1) | 393.5 (DT1) | | | | 483 (DT1) | | | 433 (DT1) | 424 (DT1) |
| 9/20/2016 | | | | 537 (DT1) | 402 (DT1) | | 409 (D) | 405 (D) | | |
| 10/12/2016 | 389 (D) | 390 (D) | | | | 398 (DT1) | | | 398 (DT1) | |
| 10/13/2016 | | | 423 (DT1) | | 399 (DT1) | | 392 (DT1) | | | |
| 11/15/2016 | | | | | | | | | 385 (D) | 331 (D) |
| 11/16/2016 | | | 420 (DT1) | 463 (DT1) | 371 (DT1) | | 367 (DT1) | 362 (DT1) | | |
| 1/18/2017 | 438 (T1D) | 438 (T1D) | | | | | | | 445 (DT1) | 282 (DT1) |
| 1/19/2017 | | | 522 (DT1) | 527 (DT1) | 445 (D) | | 439 (DT1) | 433 (DT1) | | |
| 2/14/2017 | 408 (DT1) | | | | | 431.5 (DT1) | | | 420 (DT1) | 296 (DT1) |
| 2/15/2017 | | | 474.5 (DT1) | 531 (DT1) | 408 (DT1) | | 424 (DT1) | 458 (DT1) | | |
| 2/28/2017 | 376.5 (DT1) | 381 (DT1) | | | | 379 (DT1) | | | 390 (DT1) | 325 (DT1) |
| 3/1/2017 | | | 386 (DT1) | | 354 (DT1) | | 367 (DT1) | 354 (DT1) | | |
| 2/14/2018 | 397 (DT) | 387 (DT) | | | | 392 (DT) | | | 401 (DT) | 246 (DT) |
| 2/15/2018 | | | 470 (DT) | 505 (DT) | 409 (DT) | | 444 (DT) | 476 (DT) | | |
| 9/25/2018 | 370 (D) | 368 (D) | | | | | | | 386 (D) | 233 (D) |
| 9/26/2018 | | | 382 (D) | 424 (D) | 364 (D) | | 361 (D) | 376 (D) | | |
| 5/14/2019 | 337 (T1) | 344 | | | | 340 (T1) | | | 353.5 (T1D) | 196 (T1) |
| 5/15/2019 | | | 352 (T1) | 372 (T1) | 328.5 (T1D) | | 334 (T1) | 341 (T1) | | |
| 9/24/2019 | 368.5 (D) | 374 (D) | | | 352 (DT1) | 400 (D) | | | 379 (D) | 201 (D) |
| 9/25/2019 | | | 390 | 402 (D) | | | 359 (DT1) | 368 (DT1) | | |

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Chloride (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

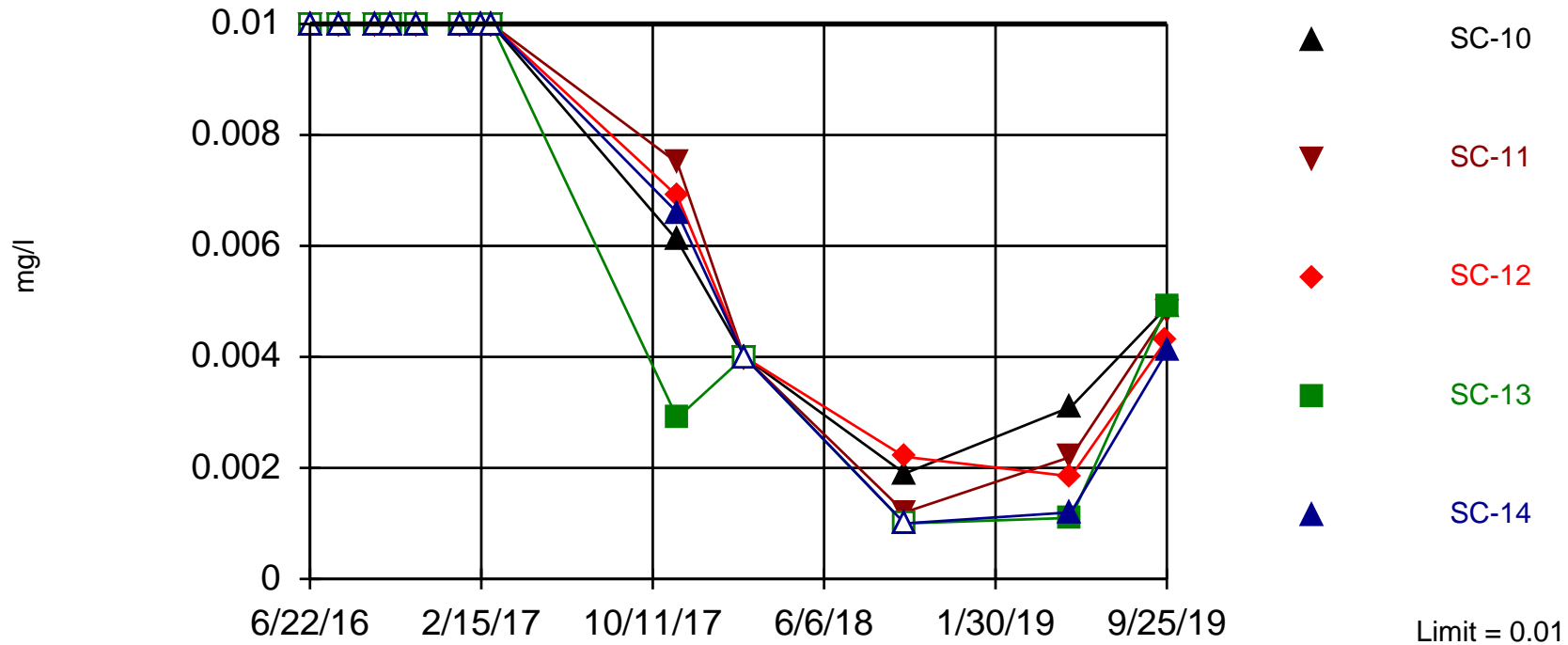
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | SC-14 | CC-1 | FC-2 | FC-3A | FC-3B |
|------------|-----------|-----------|-----------|-----------|-----------|----------|----------|---------|-----------|----------|
| 6/22/2016 | 772 (D) | 168 (D) | 284 (D) | 1100 (D) | 638 (D) | 170 (D) | 1535 (D) | 132 (D) | | |
| 6/23/2016 | | | | | | | | | 92.5 (D) | |
| 6/27/2016 | | | | | | | | | | 319 (D) |
| 8/2/2016 | 761.5 (D) | | | | | | 1540 (D) | 128 (D) | 91 (D) | 504 (D) |
| 8/3/2016 | | 160 (D) | 296 (D) | 1100 (D) | 633.5 (D) | 171 (D) | | | | |
| 9/19/2016 | 760 (D) | | | | | | 1530 (D) | 130 (D) | 96.3 (D) | 594 (D) |
| 9/20/2016 | | 150 (D) | 317 (D) | 1145 (D) | 688 (D) | 171 (D) | | | | |
| 10/12/2016 | 750 (D) | | | | | | 1500 (D) | 124 (D) | 99.55 (D) | 687 (D) |
| 10/13/2016 | | 154 (D) | 308.5 (D) | 1120 (D) | 649 (D) | 81.2 (D) | | | | |
| 11/15/2016 | 71.2 (D) | | | | | | 1550 (D) | 127 (D) | 101.5 (D) | 676 (D) |
| 11/16/2016 | | 163 (D) | 326 (D) | 1140 (D) | 675 (D) | 170 (D) | | | | |
| 1/18/2017 | 741 (D) | | | | | | 1680 (D) | 125 (D) | 104 (D) | 631 (D) |
| 1/19/2017 | | 162 (D) | 324 (D) | 1140 (D) | 672 (D) | 162 (D) | | | | |
| 2/14/2017 | 738 (D) | | | | | | 1515 (D) | 123 (D) | 107 (D) | 732 (D) |
| 2/15/2017 | | 165 (D) | 320 (D) | 1140 (D) | 697.5 (D) | 160 (D) | | | | |
| 2/28/2017 | 769 (D) | | | | | | 1560 (D) | 122 (D) | 107 (D) | 818 (D) |
| 3/1/2017 | | 0.163 (D) | 312.5 (D) | 1130 (D) | 691 (D) | 76.5 (D) | | | | |
| 2/14/2018 | 756 (D) | | | | | | 1530 (D) | 124 (D) | 115.5 (D) | 652 (D) |
| 2/15/2018 | | 158 (DT) | 325 (TD) | 1110 (DT) | | 167 (DT) | | | | |
| 9/25/2018 | 783.5 (D) | | | | | | 1520 (D) | 118 (D) | 122 (D) | 1210 (D) |
| 9/26/2018 | | 177 (D) | 323 (D) | 1120 (D) | 790 (D) | 178 (D) | | | | |
| 5/14/2019 | 782 (D) | | | | | | 1540 (D) | 113 (D) | 124 (D) | 199 (D) |
| 5/15/2019 | | 172 (D) | 292 (D) | 1070 (D) | 839 (D) | 185 (D) | | | | |
| 9/24/2019 | 811 (D) | | 316 (D) | | | | 1580 (D) | 116 (D) | 127 (D) | 220 (D) |
| 9/25/2019 | | 180 (D) | | 1090 (D) | | 190 (D) | | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 69.23% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Chromium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

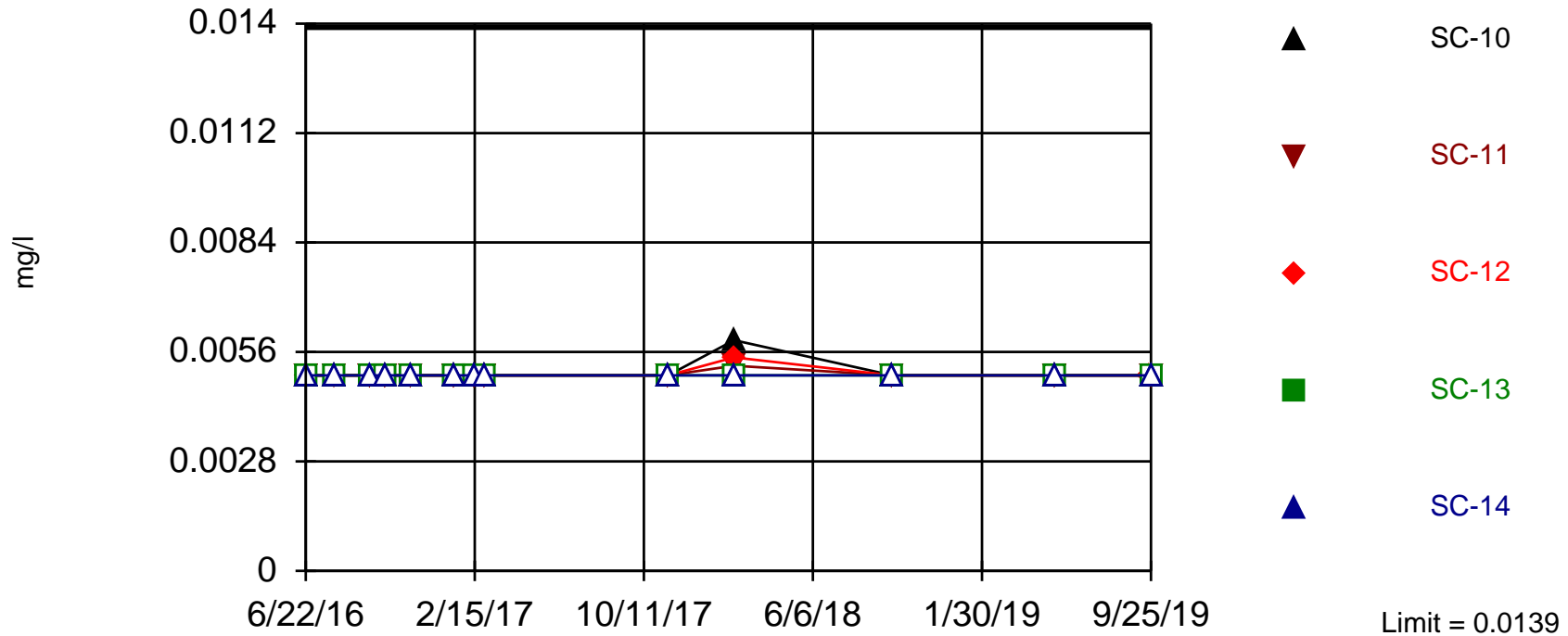
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 6/23/2016 | | | | | | | | | <0.01 | |
| 6/27/2016 | | | | | | | | | | <0.01 |
| 8/2/2016 | <0.01 (D) | <0.01 | | | | | <0.01 | | <0.01 | <0.01 |
| 8/3/2016 | | | <0.01 | <0.01 | <0.01 (D) | <0.01 | | <0.01 | | |
| 9/19/2016 | <0.01 | <0.01 | | | | | <0.01 (D) | | <0.01 | <0.01 |
| 9/20/2016 | | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 (D) | | |
| 10/12/2016 | <0.01 | <0.01 | | | | | <0.01 | | <0.01 (D) | <0.01 |
| 10/13/2016 | | | <0.01 | <0.01 | <0.01 | <0.01 (D) | | <0.01 | | |
| 11/15/2016 | <0.01 | <0.01 | | | | | <0.01 | | <0.01 (D) | <0.01 |
| 11/16/2016 | | | <0.01 | <0.01 (D) | <0.01 | <0.01 | | <0.01 | | |
| 1/18/2017 | <0.01 | <0.01 (D) | | | | | <0.01 | | <0.01 | <0.01 |
| 1/19/2017 | | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | | |
| 2/14/2017 | <0.01 | <0.01 (D) | | | | | <0.01 | | <0.01 | <0.01 |
| 2/15/2017 | | | <0.01 | <0.01 | <0.01 (D) | <0.01 | | <0.01 | | |
| 2/28/2017 | <0.01 (D) | <0.01 | | | | | <0.01 | | <0.01 | <0.01 |
| 3/1/2017 | | | <0.01 | <0.01 | <0.01 | <0.01 (D) | | <0.01 | | |
| 11/13/2017 | 0.006 (D) | 0.0064 (D) | | | | | 0.0051 (D) | | 0.0062 (D) | 0.0086 (D) |
| 11/14/2017 | | | 0.0066 (D) | 0.0029 (D) | 0.0061 (D) | 0.0069 (D) | | 0.0075 (D) | | |
| 2/14/2018 | <0.004 | <0.004 | | | | | <0.004 | | <0.004 (D) | 0.0058 |
| 2/15/2018 | | | <0.004 | <0.004 | <0.004 | <0.004 | | <0.004 | | |
| 9/25/2018 | 0.001 (D) | 0.0017 | | | | | 0.001 | | 0.0025 | 0.0061 |
| 9/26/2018 | | | <0.001 | <0.001 (D) | 0.0019 | 0.0022 | | 0.0012 | | |
| 5/14/2019 | 0.0013 | 0.0018 (D) | | | | | <0.001 (D) | | 0.0031 (D) | 0.0049 (D) |
| 5/15/2019 | | | 0.0012 (D) | 0.0011 (D) | 0.0031 (D) | 0.00185 (D) | | 0.0022 (D) | | |
| 9/24/2019 | 0.0042 (D) | 0.0036 (D) | | | | 0.0043 (D) | 0.0035 (D) | | 0.0054 (D) | 0.0089 (D) |
| 9/25/2019 | | | 0.0041 (D) | 0.0049 (D) | 0.0049 (D) | | | 0.0048 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 84.13% NDs. Annual per-constituent alpha = 0.004816. Individual comparison alpha = 0.0004826 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Cobalt, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

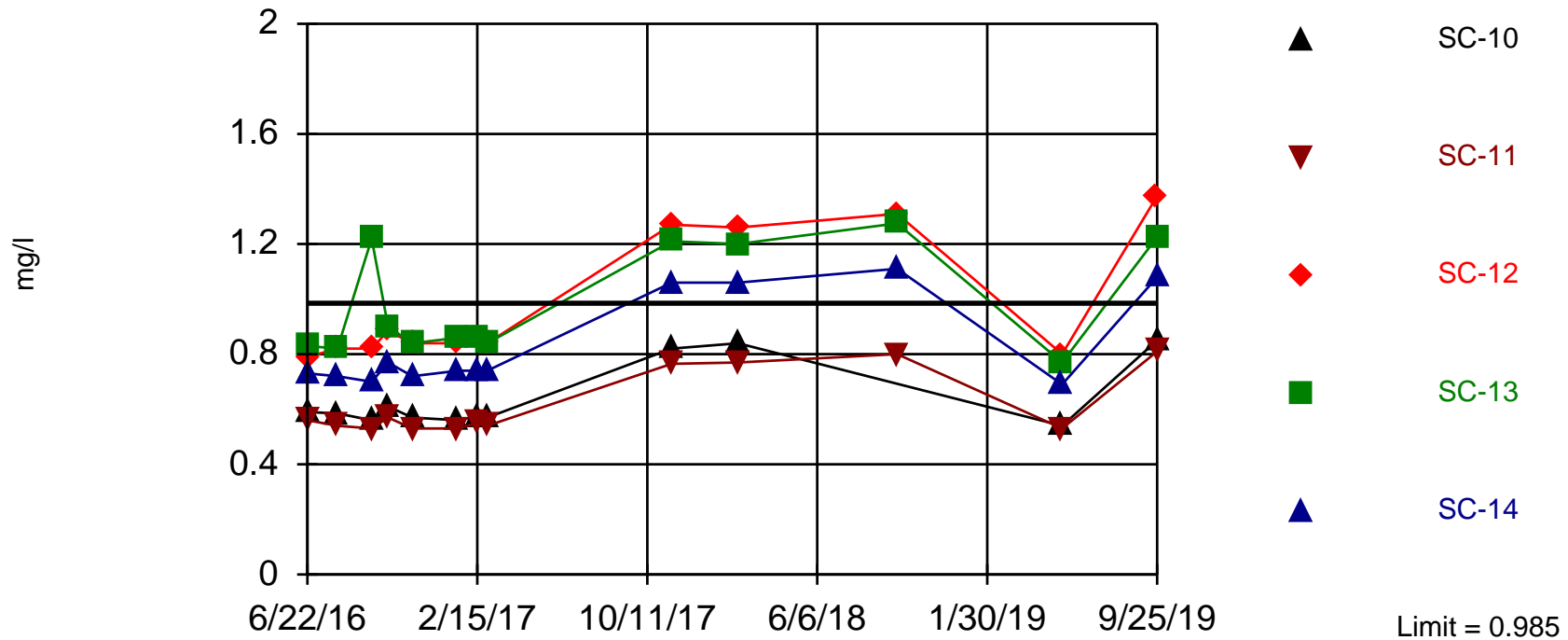
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-14 | SC-13 | SC-12 | SC-11 | CC-1 | FC-2 | SC-10 | FC-3A | FC-3B |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | 0.0078 |
| 8/2/2016 | <0.005 (D) | | | | | | <0.005 | | <0.005 | 0.005 |
| 8/3/2016 | | <0.005 | <0.005 | <0.005 | 0.005 | | | <0.005 (D) | | |
| 9/19/2016 | <0.005 | | | | | <0.005 | <0.005 (D) | | <0.005 | <0.005 |
| 9/20/2016 | | <0.005 | <0.005 | <0.005 | <0.005 (D) | | | | | |
| 10/12/2016 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | <0.005 |
| 10/13/2016 | | <0.005 | <0.005 | <0.005 (D) | <0.005 | | | <0.005 | | |
| 11/15/2016 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | 0.00736 |
| 11/16/2016 | | <0.005 | <0.005 (D) | <0.005 | <0.005 | | | <0.005 | | |
| 1/18/2017 | <0.005 | | | | | <0.005 (D) | <0.005 | | <0.005 | 0.00778 |
| 1/19/2017 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | | |
| 2/14/2017 | <0.005 | | | | | <0.005 (D) | <0.005 | | <0.005 | 0.00796 |
| 2/15/2017 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 (D) | | |
| 2/28/2017 | <0.005 (D) | | | | | <0.005 | <0.005 | | <0.005 | 0.00553 |
| 3/1/2017 | | <0.005 | <0.005 | <0.005 (D) | <0.005 | | | <0.005 | | |
| 11/13/2017 | <0.005 | | | | | <0.005 | <0.005 (D) | | <0.005 | 0.0118 |
| 11/14/2017 | | <0.005 | <0.005 | <0.005 | <0.005 (D) | | | <0.005 | | |
| 2/14/2018 | | | | | | 0.00636 | <0.005 | | <0.005 (D) | 0.0139 |
| 2/15/2018 | | <0.005 | <0.005 | 0.00546 | 0.00525 | | | 0.0059 | | |
| 9/25/2018 | <0.005 (DD1) | | | | | <0.005 (DD1) | <0.005 (DD1) | | <0.005 (DD1) | 0.0108 (D) |
| 9/26/2018 | | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | | | <0.005 (DD1) | | |
| 5/14/2019 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | <0.005 |
| 5/15/2019 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | | |
| 9/24/2019 | <0.005 (D) | | | <0.005 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 9/25/2019 | | <0.005 | <0.005 (D) | | <0.005 | | | <0.005 | | |

Exceeds Limit: SC-12, SC-13, SC-14

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Fluoride, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

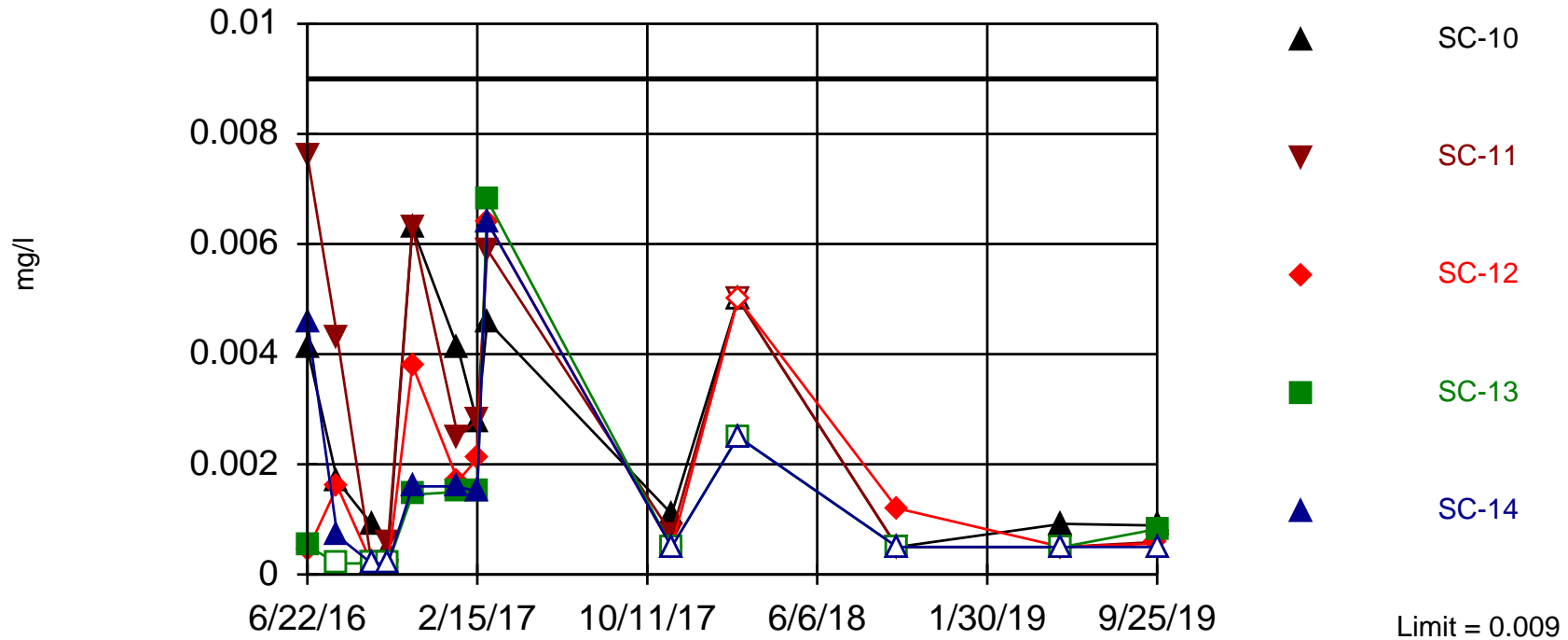
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-14 | SC-10 | CC-1 | FC-2 | FC-3A | FC-3B |
|------------|--------------|-----------|------------|-----------|----------|------------|------------|-----------|------------|-------------|
| 6/22/2016 | 0.12 (T) | 0.83 (T) | 0.79 (T) | 0.56 (T) | 0.73 (T) | 0.59 (T) | 0.215 (TD) | 0.51 (T) | | |
| 6/23/2016 | | | | | | | | | 0.46 (T) | |
| 6/27/2016 | | | | | | | | | | 0.55 |
| 8/2/2016 | 0.06006 (TD) | | | | | | 0.21 (T) | 0.5 (T) | 0.46 (T) | 0.00048 (T) |
| 8/3/2016 | | 0.82 (T) | 0.82 (T) | 0.54 (T) | 0.72 (T) | 0.585 (TD) | | | | |
| 9/19/2016 | 0.13 | | | | | | 0.22 | 0.985 (D) | 0.48 | 0.48 |
| 9/20/2016 | | 1.22 (D) | 0.82 | 0.53 (D) | 0.7 | 0.56 | | | | |
| 10/12/2016 | 0.12 (T) | | | | | | 0.21 (T) | 0.52 (T) | 0.465 (TD) | 0.51 (T) |
| 10/13/2016 | | 0.9 (T) | 0.885 (TD) | 0.57 (T) | 0.77 (T) | 0.61 (T) | | | | |
| 11/15/2016 | 0.12 (T) | | | | | | 0.2 (T) | 0.51 (T) | 0.46 (TD) | 0.46 (T) |
| 11/16/2016 | | 0.84 (D) | 0.84 (T) | 0.53 (T) | 0.72 (T) | 0.57 (T) | | | | |
| 1/18/2017 | 0.13 (T) | | | | | | 0.2 (TD) | 0.52 (T) | 0.46 (T) | 0.56 (T) |
| 1/19/2017 | | 0.86 (T) | 0.84 (T) | 0.53 (T) | 0.74 (T) | 0.56 (T) | | | | |
| 2/14/2017 | 0.13 (T) | | | | | | 0.22 (TD) | 0.55 (T) | 0.48 (T) | 0.51 (T) |
| 2/15/2017 | | 0.86 (T) | | 0.55 (T) | 0.74 (T) | 0.575 (TD) | | | | |
| 2/28/2017 | 0.13 (TD) | | | | | | 0.22 (T) | 0.53 (T) | 0.47 (T) | 0.42 (T) |
| 3/1/2017 | | 0.84 (T) | 0.84 (TD) | 0.54 (T) | 0.74 (T) | 0.57 (T) | | | | |
| 11/13/2017 | 0.2 | | | | | | 0.45 | 0.7 (D) | 0.56 | 0.48 |
| 11/14/2017 | | 1.21 | 1.27 | 0.765 (D) | 1.06 | 0.82 | | | | |
| 2/14/2018 | 0.21 | | | | | | 0.5 | 0.74 | 0.615 (D) | 0.53 |
| 2/15/2018 | | 1.2 | 1.26 | 0.77 | 1.06 | 0.84 | | | | |
| 9/25/2018 | 0.195 (D) | | | | | | 0.48 | 0.73 | 0.62 | 0.52 |
| 9/26/2018 | | 1.275 (D) | 1.31 | 0.8 | 1.11 | | | | | |
| 5/14/2019 | 0.13 | | | | | | 0.2 | 0.51 | 0.44 (D) | 0.69 |
| 5/15/2019 | | 0.77 | 0.8 (D) | 0.53 | 0.69 | 0.54 | | | | |
| 9/24/2019 | 0.195 (D) | | 1.37 | | | | 0.53 | 0.72 | 0.59 | 0.72 |
| 9/25/2019 | | 1.225 (D) | | 0.81 | 1.08 | 0.85 | | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 46.15% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Constituent: Lead, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Lead, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

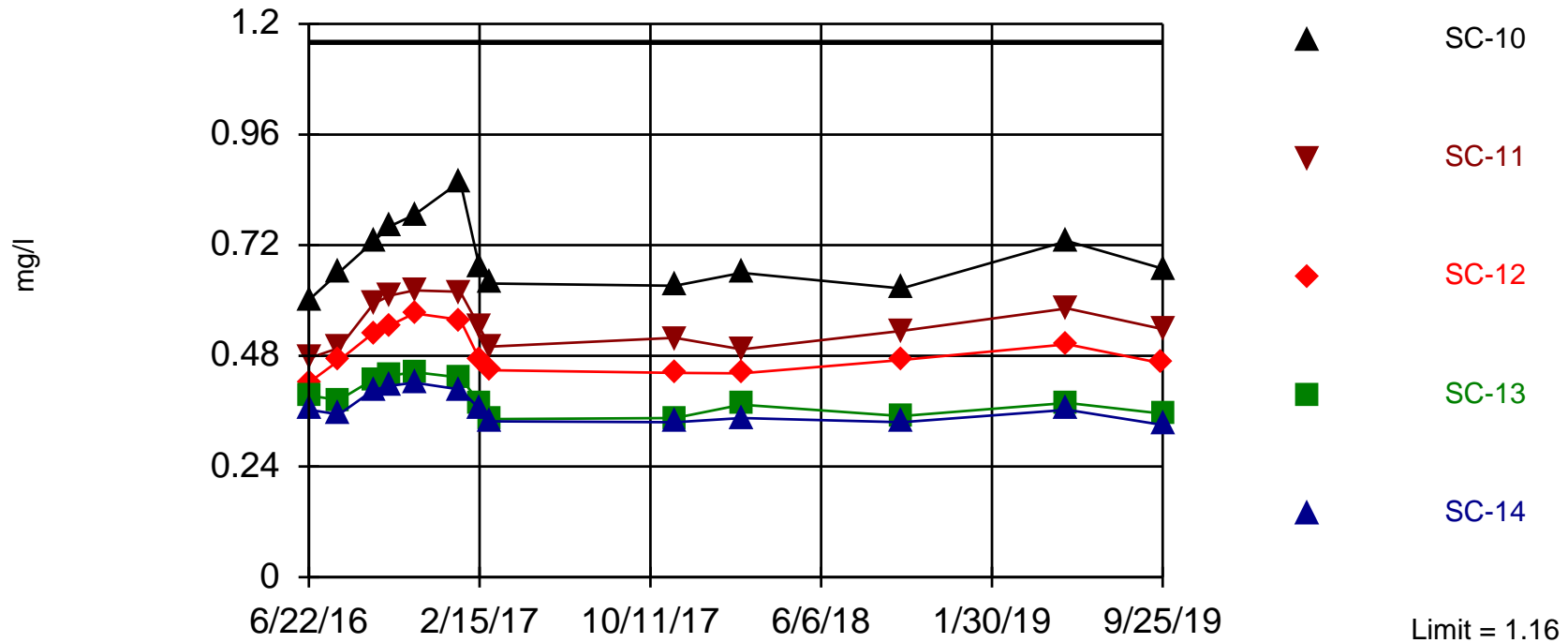
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 (D) | 0.0046 | 0.00052 | 0.0041 | 0.00043 | 0.0002 | 0.0076 | | |
| 6/23/2016 | | | | | | | | | 0.0052 | |
| 6/27/2016 | | | | | | | | | | 0.0039 |
| 8/2/2016 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | 0.0015 | 0.0021 |
| 8/3/2016 | | | 0.0007 | <0.0002 | 0.0017 (D) | 0.0016 | | 0.0043 | | |
| 9/19/2016 | 0.00032 (D) | <0.0002 (D1) | | | | | <0.0002 (D1) | | 0.001 (D) | 0.00042 (D) |
| 9/20/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00091 (D) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | 0.000835 (D) | <0.0002 (D1) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00044 (D) | <0.0002 (D) | | 0.0006 (D) | | |
| 11/15/2016 | 0.0037 (D) | 0.0052 (D) | | | | | <0.0002 (D1) | | 0.0031 (D) | 0.0065 (D) |
| 11/16/2016 | | | 0.0016 (D) | 0.00145 (D) | 0.0063 (D) | 0.0038 (D) | | 0.0063 (D) | | |
| 1/18/2017 | <0.0005 (D1) | 0.0035 (D) | | | | | <0.0005 (D1) | | 0.0035 (D) | 0.0035 (D) |
| 1/19/2017 | | | 0.0016 (D) | 0.0015 (D) | 0.0041 (D) | 0.0017 (D) | | 0.0025 (D) | | |
| 2/14/2017 | 0.0027 (D) | 0.0028 (D) | | | | | 0.0018 (D) | | 0.0017 (D) | 0.00099 (D) |
| 2/15/2017 | | | 0.0015 (D) | 0.0015 (D) | 0.00275 (D) | 0.0021 (D) | | 0.0028 (D) | | |
| 2/28/2017 | 0.0081 (D) | 0.0049 (D) | | | | | 0.0089 (D) | | 0.009 | 0.0089 (D) |
| 3/1/2017 | | | 0.0064 (D) | 0.0068 (D) | 0.0046 (D) | 0.0064 (D) | | 0.0059 (D) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | 0.00091 (D) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | <0.0005 (D1) | 0.0011 (D) | <0.0005 (D1) | | 0.00073 (D) | | |
| 2/14/2018 | <0.005 | <0.005 | | | | | <0.0025 | | <0.0025 (D) | <0.0025 |
| 2/15/2018 | | | <0.0025 | <0.0025 | <0.005 | <0.005 | | <0.005 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | 0.00086 | 0.0046 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 (D1) | 0.0012 | | <0.0005 (D1) | | |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | 0.0011 (D1D) | 0.00073 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | 0.00092 (D1D) | <0.0005 (D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | 0.00072 (D) | | | | 0.00056 (D) | 0.0014 (D) | | 0.0018 (D) | 0.0012 (D) |
| 9/25/2019 | | | <0.0005 (D1D) | 0.000825 (D) | 0.00089 (D) | | | 0.00059 (D) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Lithium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

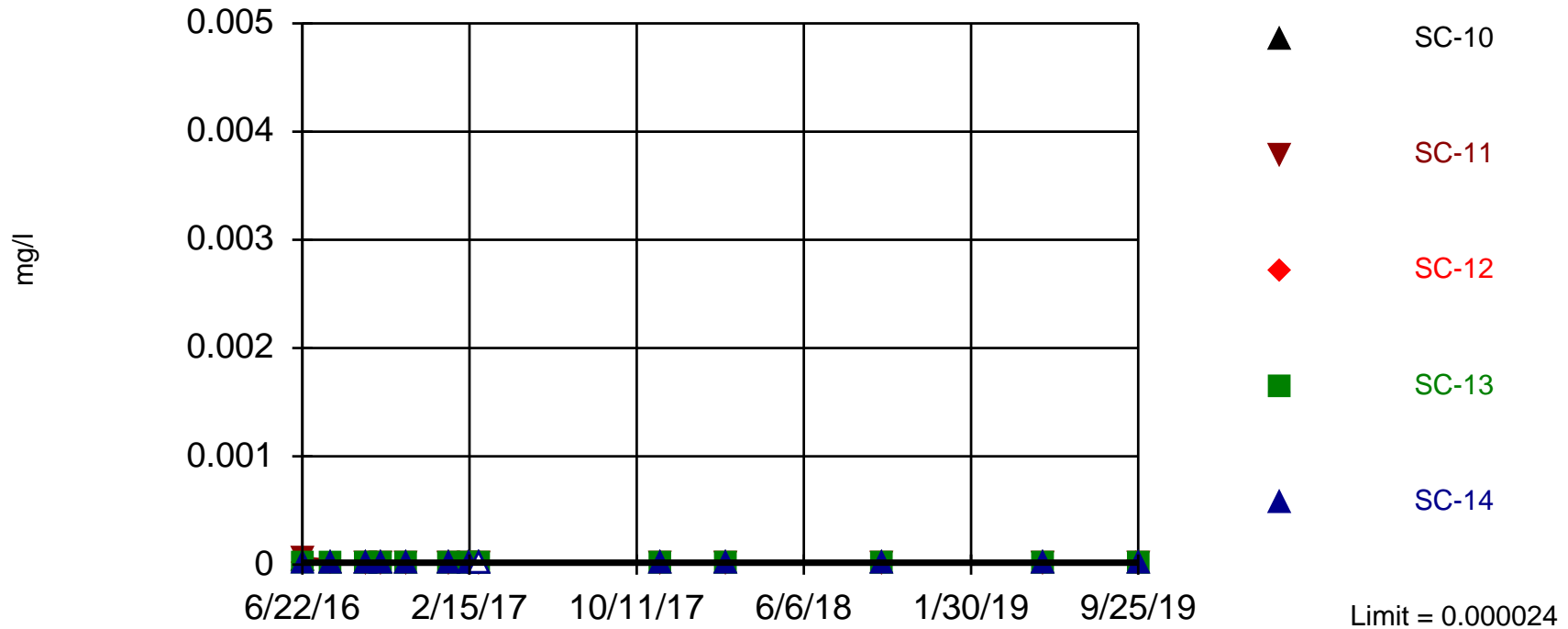
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|------------|-----------|-----------|------------|-----------|-----------|------------|-----------|------------|-----------|
| 6/22/2016 | 0.904 | 0.671 (D) | 0.363 | 0.394 | 0.601 | 0.422 | 0.269 | 0.475 | | |
| 6/23/2016 | | | | | | | | | 0.303 | |
| 6/27/2016 | | | | | | | | | | 0.232 |
| 8/2/2016 | 0.984 (D) | 0.731 | | | | | 0.305 | | 0.311 | 0.274 |
| 8/3/2016 | | | 0.353 | 0.384 | 0.661 (D) | 0.47 | | 0.497 | | |
| 9/19/2016 | 1.01 | 0.779 | | | | | 0.306 (D) | | 0.343 | 0.295 |
| 9/20/2016 | | | 0.406 | 0.429 | 0.728 | 0.53 | | 0.593 (D) | | |
| 10/12/2016 | 1.03 | 0.825 | | | | | 0.307 | | 0.3455 (D) | 0.315 |
| 10/13/2016 | | | 0.415 | 0.437 | 0.761 | 0.546 (D) | | 0.611 | | |
| 11/15/2016 | 1.16 | 0.822 | | | | | 0.325 (T) | | 0.3375 (D) | 0.344 |
| 11/16/2016 | | | 0.422 | 0.4445 (D) | 0.786 | 0.572 | | 0.622 | | |
| 1/18/2017 | 1.08 | 0.791 (D) | | | | | 0.318 | | 0.343 (D) | 0.335 |
| 1/19/2017 | | | 0.407 (D) | 0.433 (D) | 0.858 (D) | 0.558 (D) | | 0.619 (D) | | |
| 2/14/2017 | 1 | 0.73 (D) | | | | | 0.298 | | 0.312 | 0.334 |
| 2/15/2017 | | | 0.365 | 0.379 | 0.671 (D) | 0.472 | | 0.542 | | |
| 2/28/2017 | 0.9125 (D) | 0.641 | | | | | 0.275 (D) | | 0.283 (D) | 0.326 (D) |
| 3/1/2017 | | | 0.338 (D) | 0.343 (D) | 0.637 (D) | 0.449 (D) | | 0.5 (D) | | |
| 11/13/2017 | 0.894 | 0.63 | | | | | 0.2665 (D) | | 0.288 | 0.31 |
| 11/14/2017 | | | 0.336 | 0.345 | 0.632 | 0.443 | | 0.519 (D) | | |
| 2/14/2018 | 0.9 (D) | 0.576 (D) | | | | | 0.265 (D) | | 0.2635 (D) | 0.341 (D) |
| 2/15/2018 | | | 0.345 (D) | 0.374 (D) | 0.66 (D) | 0.442 (D) | | 0.494 (D) | | |
| 9/25/2018 | 0.9085 (D) | 0.664 (D) | | | | | 0.276 (D) | | 0.302 (D) | 0.316 (D) |
| 9/26/2018 | | | 0.336 (D) | 0.3495 (D) | 0.626 (D) | 0.471 (D) | | 0.534 (D) | | |
| 5/14/2019 | 1.13 | 0.798 | | | | | 0.294 | | 0.3265 (D) | 0.321 |
| 5/15/2019 | | | 0.363 | 0.378 | 0.729 | 0.505 (D) | | 0.583 | | |
| 9/24/2019 | 0.9695 (D) | 0.722 (D) | | | | | 0.464 (D) | | 0.303 (D) | 0.284 (D) |
| 9/25/2019 | | | 0.33 (D) | 0.3545 (D) | 0.669 (D) | | | 0.538 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. Annual per-constituent alpha = 0.004681. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 5 points to limit.

Constituent: Mercury, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Mercury, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

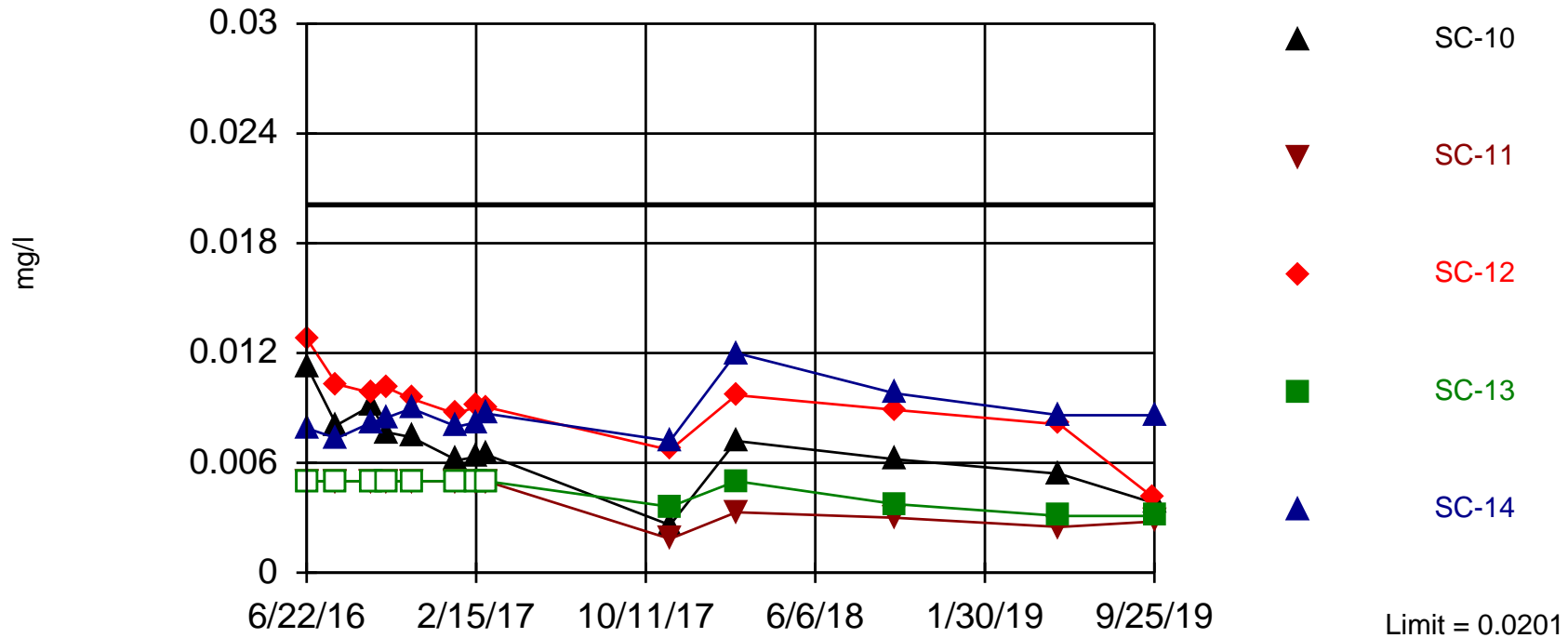
| | FC-1 | CC-1 | SC-10 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-------------|-------------|--------------|-------------|-----------|-----------|--------------|---------|-------------|-----------|
| 6/22/2016 | 1.3E-06 | 4.7E-06 (D) | 3.6E-05 | 6.7E-05 | 4.5E-06 | 3.6E-06 | 2.8E-06 | 1.2E-05 | | |
| 6/23/2016 | | | | | | | | | 5.4E-06 | |
| 6/27/2016 | | | | | | | | | | 1.3E-05 |
| 8/2/2016 | 2E-06 (D) | 6E-06 | | | | | 4E-06 | | 7E-06 | 6E-06 |
| 8/3/2016 | | | 1.05E-05 (D) | | 6E-06 | 2E-06 | | 3E-06 | | |
| 9/19/2016 | 2E-06 | 6E-06 | | | | | 3E-06 (D) | | 4E-06 | 3E-06 |
| 9/20/2016 | | | 1.6E-05 | 9.5E-06 (D) | 5E-06 | 3E-06 | | 3E-06 | | |
| 10/12/2016 | 2E-06 | 6E-06 | | | | | | | 5E-06 (D) | 3E-06 |
| 10/13/2016 | | | 1E-05 | 1E-05 | 3E-06 (D) | 2E-06 | | 2E-06 | | |
| 11/15/2016 | 2E-06 | 6E-06 | | | | | 4E-06 | | 2E-06 (D) | 9E-06 |
| 11/16/2016 | | | 1E-05 | 1E-05 | 4E-06 | 2E-06 (D) | | 2E-06 | | |
| 1/18/2017 | 2E-06 | 7.5E-06 (D) | | | | | 5E-06 | | 2E-06 | 8E-06 |
| 1/19/2017 | | | 1.1E-05 | 1E-05 | 4E-06 | 3E-06 | | 2E-06 | | |
| 2/14/2017 | 2E-06 | 6E-06 (D) | | | | | 4E-06 | | 2E-06 | 4E-06 |
| 2/15/2017 | | | 9E-06 (D) | 8E-06 | 3E-06 | 2E-06 | | 2E-06 | | |
| 2/28/2017 | 2E-06 (D) | 6E-06 | | | | | 4E-06 | | 2E-06 | 5E-06 |
| 3/1/2017 | | | 9E-06 | 9E-06 | 3E-06 (D) | 3E-06 | | <2E-06 | | |
| 11/13/2017 | 2E-06 (T) | 6E-06 (T) | | | | | 3.5E-06 (TD) | | 4E-06 (T) | 7E-06 (T) |
| 11/14/2017 | | | 1E-05 | 7.5E-06 (D) | 4E-06 | 2E-06 | | 2E-06 | | |
| 2/14/2018 | 2E-06 | 5E-06 | | | | | 3E-06 | | 2E-06 (D) | 5E-06 |
| 2/15/2018 | | | 1.1E-05 | 1.3E-05 | 4E-06 | 2E-06 | | 2E-06 | | |
| 9/25/2018 | 2.5E-06 (D) | 5E-06 | | | | | 3E-06 | | 3E-06 | 2.4E-05 |
| 9/26/2018 | | | 9E-06 | 8E-06 | 5E-06 | 2E-06 (D) | | 2E-06 | | |
| 5/14/2019 | 2E-06 | 6E-06 | | | | | 3E-06 | | 7.5E-06 (D) | 3E-06 |
| 5/15/2019 | | | 1E-05 | 9E-06 | 4E-06 (D) | 2E-06 | | 2E-06 | | |
| 9/24/2019 | 2E-06 (D) | 5E-06 | | | 4E-06 | | 5E-06 | | 8E-06 | 5E-06 |
| 9/25/2019 | | | 1E-05 | 9E-06 | | 4E-06 (D) | | 2E-06 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 43.08% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

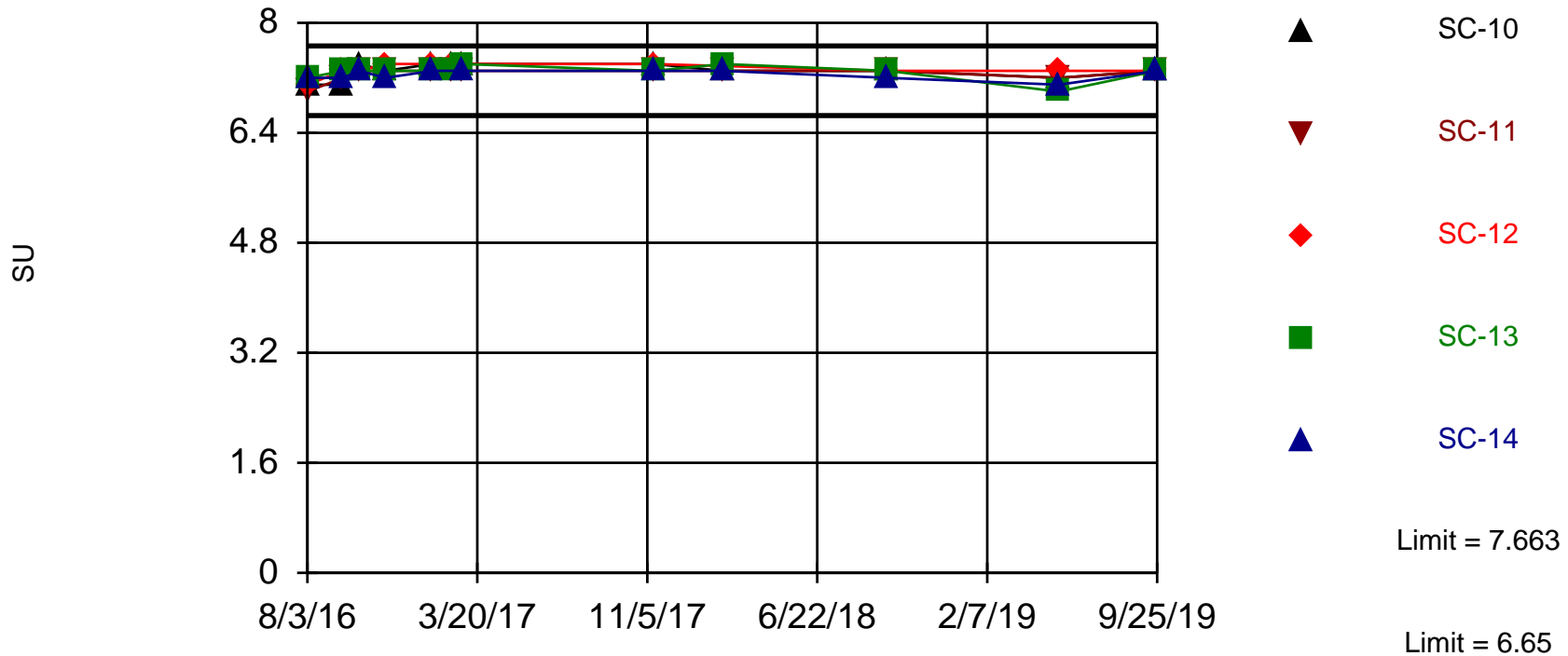
Constituent: Molybdenum, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|-------------|--------------|------------|-------------|--------------|-------------|--------------|-------------|--------------|------------|
| 6/22/2016 | <0.005 | <0.005 (D) | 0.0079 | <0.005 | 0.0113 | 0.0128 | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | 0.0201 |
| 8/2/2016 | <0.005 (D) | <0.005 | | | | | <0.005 | | 0.00838 | 0.0198 |
| 8/3/2016 | | | 0.00734 | <0.005 | 0.008055 (D) | 0.0103 | | <0.005 | | |
| 9/19/2016 | <0.005 | <0.005 | | | | | <0.005 (D) | | 0.0122 | 0.00609 |
| 9/20/2016 | | | 0.00819 | <0.005 | 0.00911 | 0.00983 | | <0.005 (D) | | |
| 10/12/2016 | <0.005 | <0.005 | | | | | 0.001252 (D) | | 0.009175 (D) | 0.00525 |
| 10/13/2016 | | | 0.00848 | <0.005 | 0.00767 | 0.0101 (D) | | <0.005 | | |
| 11/15/2016 | <0.005 | <0.005 | | | | | <0.005 | | 0.01065 (D) | 0.0117 |
| 11/16/2016 | | | 0.00897 | <0.005 (D) | 0.0074 | 0.00951 | | <0.005 | | |
| 1/18/2017 | <0.005 | <0.005 (D) | | | | | <0.005 | | 0.00969 | <0.005 |
| 1/19/2017 | | | 0.00798 | <0.005 | 0.00614 | 0.00866 | | <0.005 | | |
| 2/14/2017 | <0.005 | <0.005 (D) | | | | | <0.005 | | 0.0104 | 0.00716 |
| 2/15/2017 | | | 0.00821 | <0.005 | 0.006325 (D) | 0.00909 | | <0.005 | | |
| 2/28/2017 | <0.005 (D) | <0.005 | | | | | <0.005 | | 0.0109 | 0.00842 |
| 3/1/2017 | | | 0.00869 | <0.005 | 0.00646 | 0.00905 (D) | | <0.005 | | |
| 11/13/2017 | 0.0015 (D) | <0.0002 (D1) | | | | | 0.0014 (D) | | 0.005 (D) | 0.0042 (D) |
| 11/14/2017 | | | 0.0072 (D) | 0.0036 (D) | 0.0026 (D) | 0.0067 (D) | | 0.00185 (D) | | |
| 2/14/2018 | <0.01 | <0.01 | | | | | 0.003 | | 0.0112 (D) | 0.0055 |
| 2/15/2018 | | | 0.012 | 0.005 | 0.0072 | 0.0097 | | 0.0033 | | |
| 9/25/2018 | 0.0015 (D) | 0.0006 | | | | | 0.002 | | 0.0086 | 0.0027 |
| 9/26/2018 | | | 0.0098 | 0.00375 (D) | 0.0062 | 0.0089 | | 0.003 | | |
| 5/14/2019 | 0.0018 | 0.00068 (D) | | | | | 0.002 (D) | | 0.0069 (D) | 0.0014 (D) |
| 5/15/2019 | | | 0.0086 (D) | 0.0031 (D) | 0.0054 (D) | 0.0081 (D) | | 0.0025 (D) | | |
| 9/24/2019 | 0.00165 (D) | 0.00067 (D) | | | | 0.0041 (D) | 0.0021 (D) | | 0.0066 (D) | 0.002 (D) |
| 9/25/2019 | | | 0.0086 (D) | 0.0031 (D) | 0.0038 (D) | | | 0.0028 (D) | | |

Within Limits

Prediction Limit Interwell Parametric



Background Data Summary: Mean=7.157, Std. Dev.=0.236, n=60. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.962, critical = 0.945. Kappa = 2.146 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000229. Comparing 5 points to limit.

Constituent: pH Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

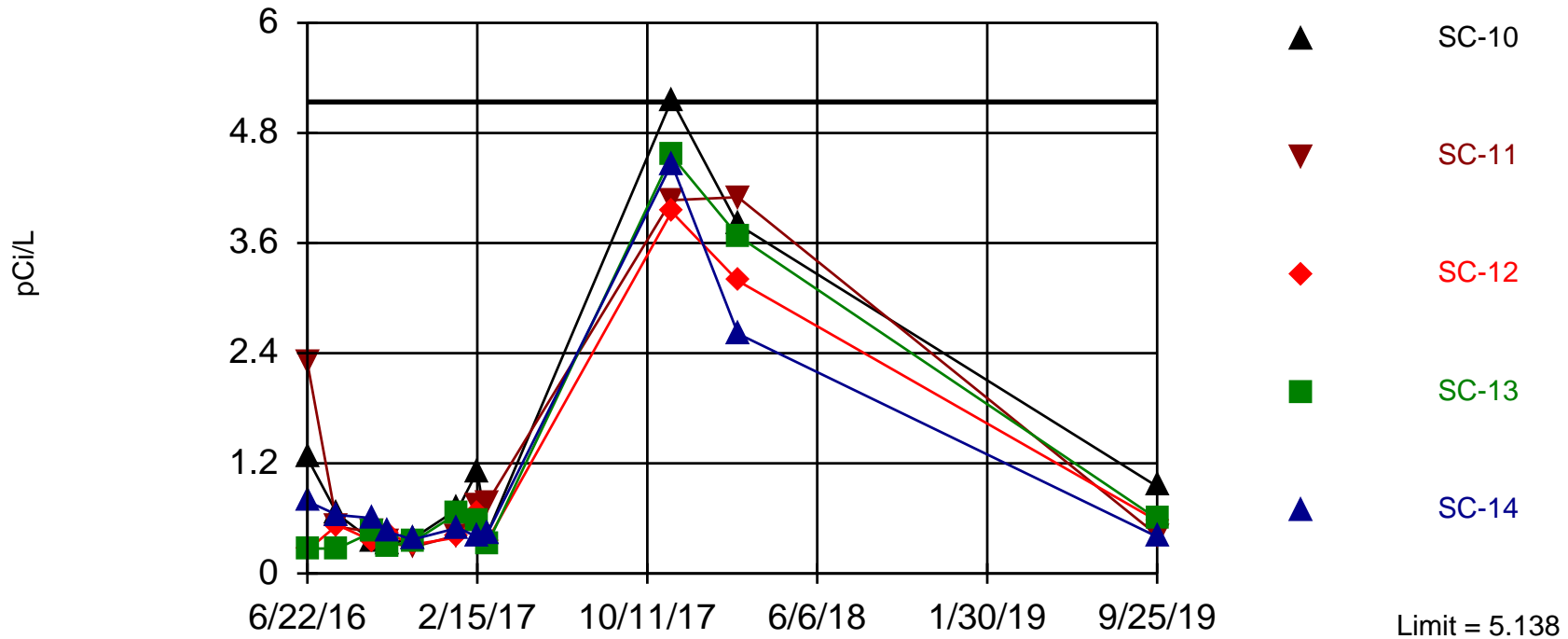
Prediction Limit

Constituent: pH (SU) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-3A | CC-1 | FC-2 | FC-3B | SC-10 | SC-13 | SC-12 | SC-14 | SC-11 |
|------------|-------|-------|------|------|-------|---------|-------|-------|-------|-------|
| 8/2/2016 | 7 (D) | 7.5 | 6.8 | 7.2 | 7.2 | | | | | |
| 8/3/2016 | | | | | | 7.1 (D) | 7.2 | 7.1 | 7.2 | 7 |
| 9/19/2016 | 7.1 | 7.5 | 6.7 | 7.2 | 6.9 | | | | | |
| 9/20/2016 | | | | | | 7.1 | 7.3 | 7.3 | 7.2 | 7.2 |
| 10/12/2016 | 7.1 | 7.5 | 6.9 | 7.2 | 7 | | | | | |
| 10/13/2016 | | | | | | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 |
| 11/15/2016 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 11/16/2016 | | | | | | 7.3 | 7.3 | 7.4 | 7.2 | 7.3 |
| 1/18/2017 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 1/19/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2017 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 2/15/2017 | | | | | | 7.4 | 7.3 | 7.4 | | 7.3 |
| 2/28/2017 | 7.2 | 7.5 | 6.9 | 7.3 | 7 | | | | | |
| 3/1/2017 | | | | | | 7.4 | 7.4 | 7.4 | 7.3 | 7.3 |
| 11/13/2017 | 7.2 | 7.6 | 7 | 7.3 | 7 | | | | | |
| 11/14/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2018 | 7.1 | 7.6 | 6.9 | 7.3 | 6.8 | | | | | |
| 2/15/2018 | | | | | | 7.3 | 7.4 | | 7.3 | 7.3 |
| 9/25/2018 | 7 | 7.3 | 6.8 | 7.3 | 7.1 | | | | | |
| 9/26/2018 | | | | | | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 5/14/2019 | 7.1 | 7.5 | 6.8 | 7.2 | 7.2 | | | | | |
| 5/15/2019 | | | | | | 7.2 | 7 | 7.3 | 7.1 | 7.2 |
| 9/24/2019 | 7.1 | 7.4 | 7 | 7.3 | 7.1 | | | 7.3 | | |
| 9/25/2019 | | | | | | 7.3 | 7.3 | | 7.3 | 7.3 |

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.081, Std. Dev.=0.2992, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9464, critical = 0.94. Kappa = 2.156 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Prediction Limit

Constituent: Rad 226+228 (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

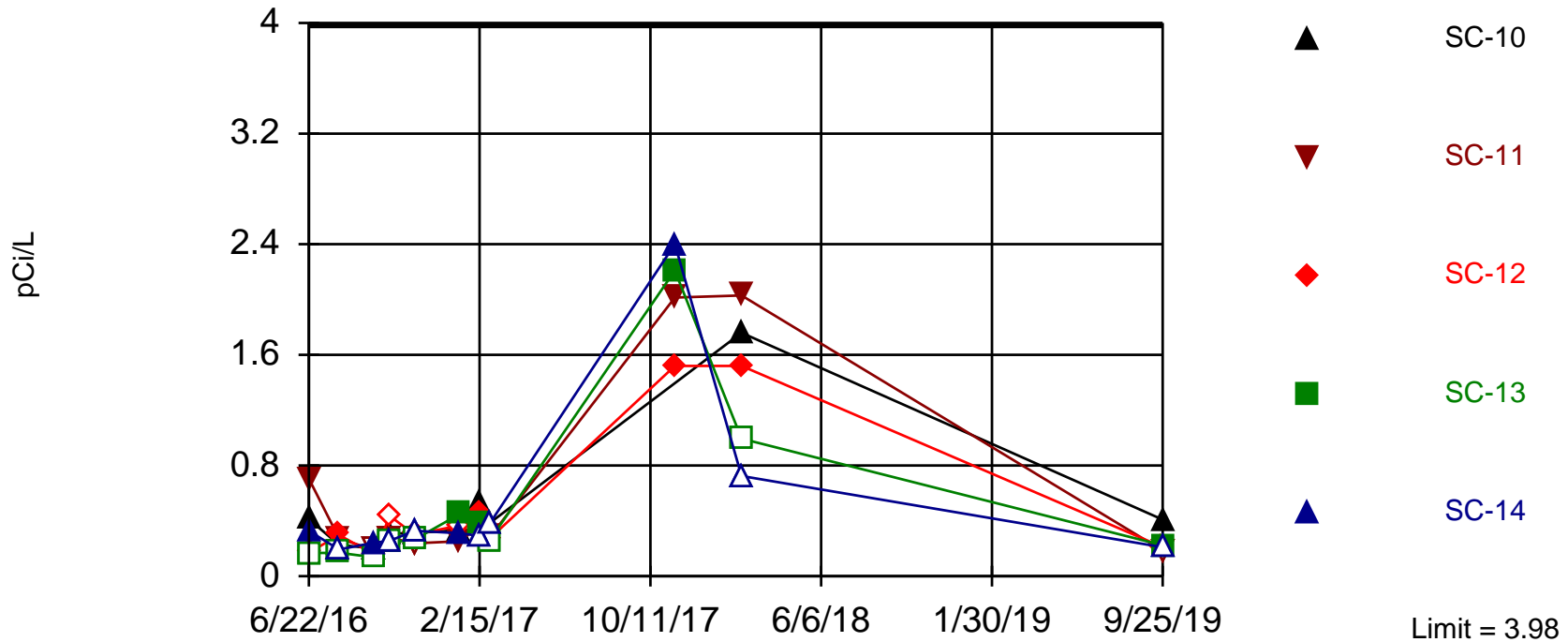
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|----------|-----------|------------|------------|--------|-------------|--------|--------|-------------|--------|
| 6/22/2016 | 1.475 | 0.2705 | 0.253 | 2.295 | 1.257 | 1.317 (D) | 0.3375 | 0.786 | | |
| 6/23/2016 | | | | | | | | | 1.321 | |
| 6/27/2016 | | | | | | | | | | 1.111 |
| 8/2/2016 | 1.38 | | | | | 0.412 | 0.295 | | 0.3135 | 1.7775 |
| 8/3/2016 | | 0.2735 | 0.528 | 0.508 | 0.646 | | | 0.6375 | | |
| 9/19/2016 | 2.136 | | | | | 0.6405 | 0.363 | | 0.3795 | 0.496 |
| 9/20/2016 | | 0.448 | 0.3585 | 0.4555 | 0.361 | | | 0.603 | | |
| 10/12/2016 | 1.913 | | | | | 1.404 | 0.3475 | | 0.616 | 0.4955 |
| 10/13/2016 | | 0.305 | 0.437 | 0.3365 | 0.324 | | | 0.4535 | | |
| 11/15/2016 | 2.128 | | | | | 1.354 | 0.854 | | 0.395 | 0.6865 |
| 11/16/2016 | | 0.341 | 0.3135 | 0.286 | 0.3775 | | | 0.3695 | | |
| 1/18/2017 | 1.874 | | | | | 1.494 (D) | 0.471 | | 0.617 | 0.6095 |
| 1/19/2017 | | 0.661 | 0.393 | 0.4185 | 0.704 | | | 0.497 | | |
| 2/14/2017 | 2.31 (D) | | | | | 1.841 | 0.7225 | | 2.636 | 1.366 |
| 2/15/2017 | | 0.581 | 0.6565 | 0.751 | 1.114 | | | 0.3975 | | |
| 2/28/2017 | 1.628 | | | | | 1.59325 (D) | 0.446 | | 1.8245 | 0.414 |
| 3/1/2017 | | 0.318 | 0.355 | 0.7725 | 0.432 | | | 0.4345 | | |
| 11/13/2017 | 6.445 | | | | | 5.16 | 4.255 | | 3.575 | 2.225 |
| 11/14/2017 | | 4.55 | 3.94 | 4.0675 (D) | 5.16 | | | 4.465 | | |
| 2/14/2018 | 5.23 | | | | | 3.22 | 2.1715 | | 2.23025 (D) | 2.79 |
| 2/15/2018 | | 3.677 | 3.1875 (D) | 4.1 | 3.8 | | | 2.612 | | |
| 9/24/2019 | 1.628 | | | | | 1.444 | 0.4605 | | 0.548 | 0.69 |
| 9/25/2019 | | 0.596 (D) | 0.5735 | 0.418 | 0.949 | | | 0.4 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 56 background values. 53.57% NDs. Annual per-constituent alpha = 0.006093. Individual comparison alpha = 0.0006109 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Radium 226, Total (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

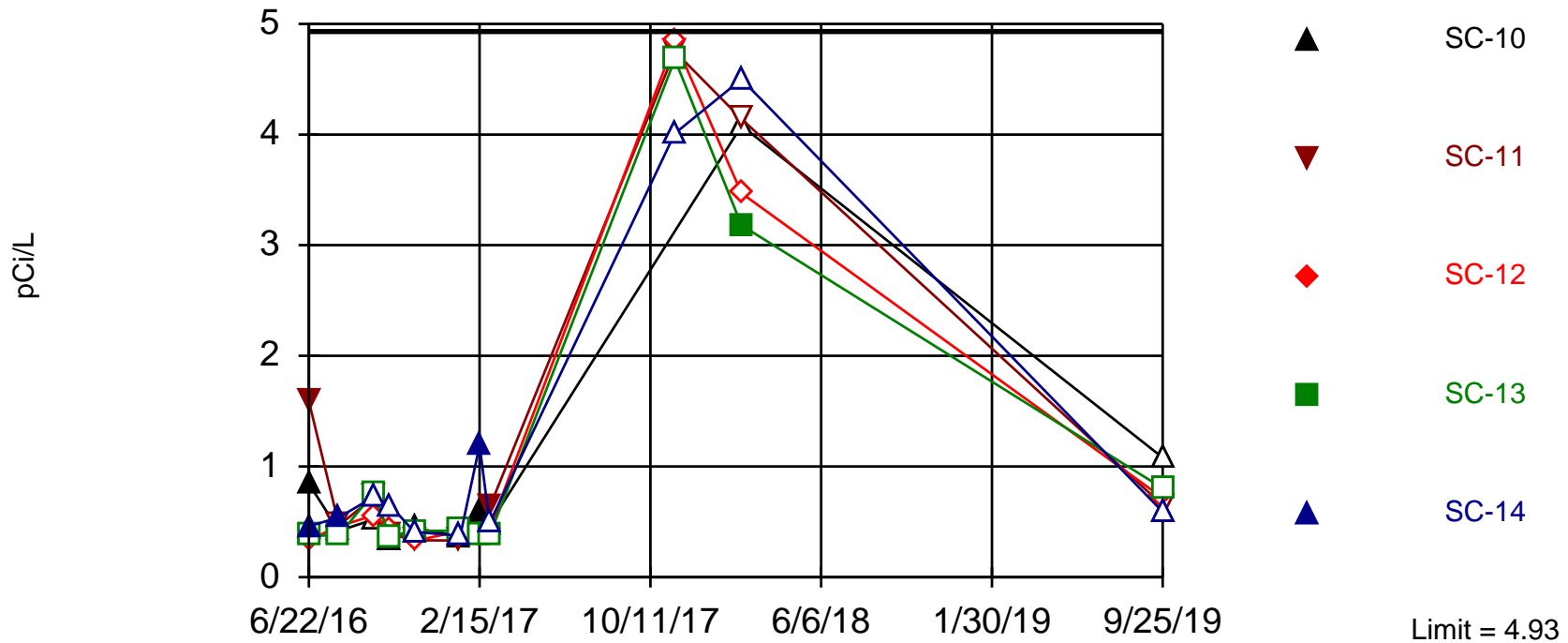
| | FC-1 | CC-1 | SC-10 | SC-11 | FC-2 | SC-13 | SC-14 | SC-12 | FC-3A | FC-3B |
|------------|-------------|------------|-----------|-----------|--------|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 0.295 (J) | 0.413 (JD) | 0.412 (J) | 0.705 (J) | <0.184 | <0.167 | 0.327 (J) | <0.169 | | |
| 6/23/2016 | | | | | | | | | 0.368 (J) | |
| 6/27/2016 | | | | | | | | | | 0.486 (J) |
| 8/2/2016 | 0.69 (D) | 0.333 (D) | | | <0.199 | | | | <0.26 | <0.235 |
| 8/3/2016 | | | 0.227 (J) | 0.274 (J) | | <0.169 | <0.193 | 0.298 (J) | | |
| 9/19/2016 | 0.416 (J) | <0.155 | | | <0.227 | | | | <0.211 | <0.484 |
| 9/20/2016 | | | <0.201 | <0.19 | | <0.137 | 0.241 (J) | <0.159 | | |
| 10/12/2016 | 0.433 (J) | <0.288 | | | <0.325 | | | | <0.368 | 0.283 (J) |
| 10/13/2016 | | | <0.307 | <0.279 | | <0.243 | <0.256 | <0.435 | | |
| 11/15/2016 | 0.588 (J) | <0.38 | | | <0.32 | | | | <0.419 | <0.397 |
| 11/16/2016 | | | <0.312 | <0.238 | | <0.265 | <0.329 | <0.3 | | |
| 1/18/2017 | 0.494 (J) | 0.569 (JD) | | | <0.256 | | | | <0.244 | 0.357 (J) |
| 1/19/2017 | | | 0.333 (J) | 0.253 (J) | | 0.451 (J) | 0.31 (J) | <0.368 | | |
| 2/14/2017 | 0.725 (JD) | 0.631 (J) | | | <0.425 | | | | <0.38 | |
| 2/15/2017 | | | 0.529 (J) | 0.369 (J) | | 0.388 (J) | <0.291 | 0.459 (J) | | |
| 2/28/2017 | 0.348 (J) | <0.343 (D) | | | <0.42 | | | | <0.307 | <0.389 |
| 3/1/2017 | | | <0.384 | <0.281 | | <0.258 | <0.379 | <0.271 | | |
| 11/13/2017 | 3.98 | 2.9 | | | 2.41 | | | | 1.87 | <0.57 |
| 11/14/2017 | | | | 2.015 (D) | | 2.21 | 2.4 | 1.52 | | |
| 2/14/2018 | 3 (J) | 1.48 (J) | | | <0.743 | | | | <0.772 (D) | <1.23 |
| 2/15/2018 | | | 1.76 | 2.03 (J) | | <0.994 | <0.724 | 1.52 (J) | | |
| 5/14/2019 | | | | | | | | | <0.1 (D) | <0.088 |
| 9/24/2019 | 0.5655 (JD) | 0.364 | | | <0.182 | | | 0.213 (J) | 0.209 (J) | 0.359 (J) |
| 9/25/2019 | | | 0.409 (J) | <0.185 | | 0.223 (JD) | <0.209 | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 48.21% NDs. Annual per-constituent alpha = 0.006093. Individual comparison alpha = 0.0006109 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Radium 228, Total (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

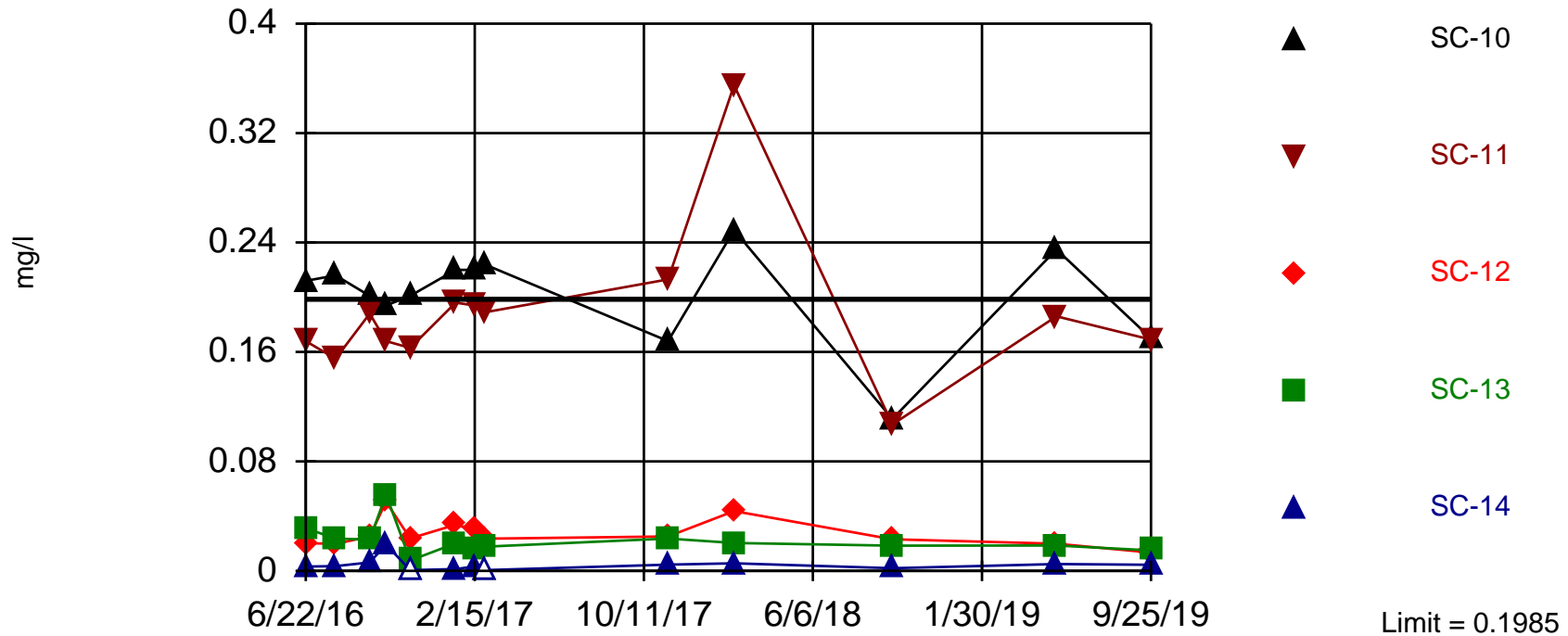
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | SC-14 | FC-2 | FC-3A | FC-3B |
|------------|------------|-----------|------------|-----------|--------|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 1.18 | 0.845 (J) | 0.904 (JD) | 1.59 | <0.337 | <0.374 | 0.459 (J) | <0.491 | | |
| 6/23/2016 | | | | | | | | | 0.953 (J) | |
| 6/27/2016 | | | | | | | | | | 0.625 (J) |
| 8/2/2016 | | | 0.7735 (D) | | | | | <0.391 | <0.367 | 1.66 |
| 8/3/2016 | | 0.419 (J) | | <0.468 | <0.46 | <0.378 | 0.541 (J) | | | |
| 9/19/2016 | 1.72 | | 0.563 (J) | | | | | <0.499 | <0.548 | <0.508 |
| 9/20/2016 | | <0.52 | | <0.721 | <0.558 | <0.759 | <0.724 | | | |
| 10/12/2016 | 1.48 | | 1.26 | | | | | <0.37 | 0.432 (J) | <0.425 |
| 10/13/2016 | | <0.341 | | <0.394 | <0.439 | <0.367 | <0.651 | | | |
| 11/15/2016 | 1.54 | | 1.2 | | | | | 0.694 (J) | <0.371 | 0.488 (J) |
| 11/16/2016 | | <0.443 | | <0.334 | <0.327 | <0.417 | <0.41 | | | |
| 1/18/2017 | 1.38 | | 0.925 (D) | | | | | 0.343 (J) | 0.495 (J) | <0.505 |
| 1/19/2017 | | 0.371 (J) | | <0.331 | <0.418 | <0.42 | <0.374 | | | |
| 2/14/2017 | 1.585 (D) | | 1.21 | | | | | 0.51 (J) | 0.593 (J) | 0.748 (J) |
| 2/15/2017 | | 0.585 (J) | | 0.382 (J) | <0.395 | <0.386 | 1.19 | | | |
| 2/28/2017 | 1.28 | | 1.435 (D) | | | | | <0.472 | 0.582 (J) | <0.439 |
| 3/1/2017 | | <0.48 | | 0.632 (J) | <0.439 | <0.378 | <0.49 | | | |
| 11/13/2017 | <4.93 | | <4.52 | | | | | <3.69 | <3.41 | <3.88 |
| 11/14/2017 | | | | <4.75 (D) | <4.84 | <4.68 | <4.01 | | | |
| 2/14/2018 | <4.46 | | <3.48 | | | | | <3.6 | <4.5 (D) | <4.35 |
| 2/15/2018 | | <4.08 | | <4.14 | <3.47 | 3.18 (J) | <4.5 | | | |
| 5/14/2019 | | | | | | | | | <0.656 (D) | <0.512 |
| 9/24/2019 | 1.0205 (D) | | 1.08 | | <0.721 | | | <0.739 | <0.678 | <0.662 |
| 9/25/2019 | | <1.08 | | <0.651 | | <0.804 (D) | <0.591 | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 1.538% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Selenium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

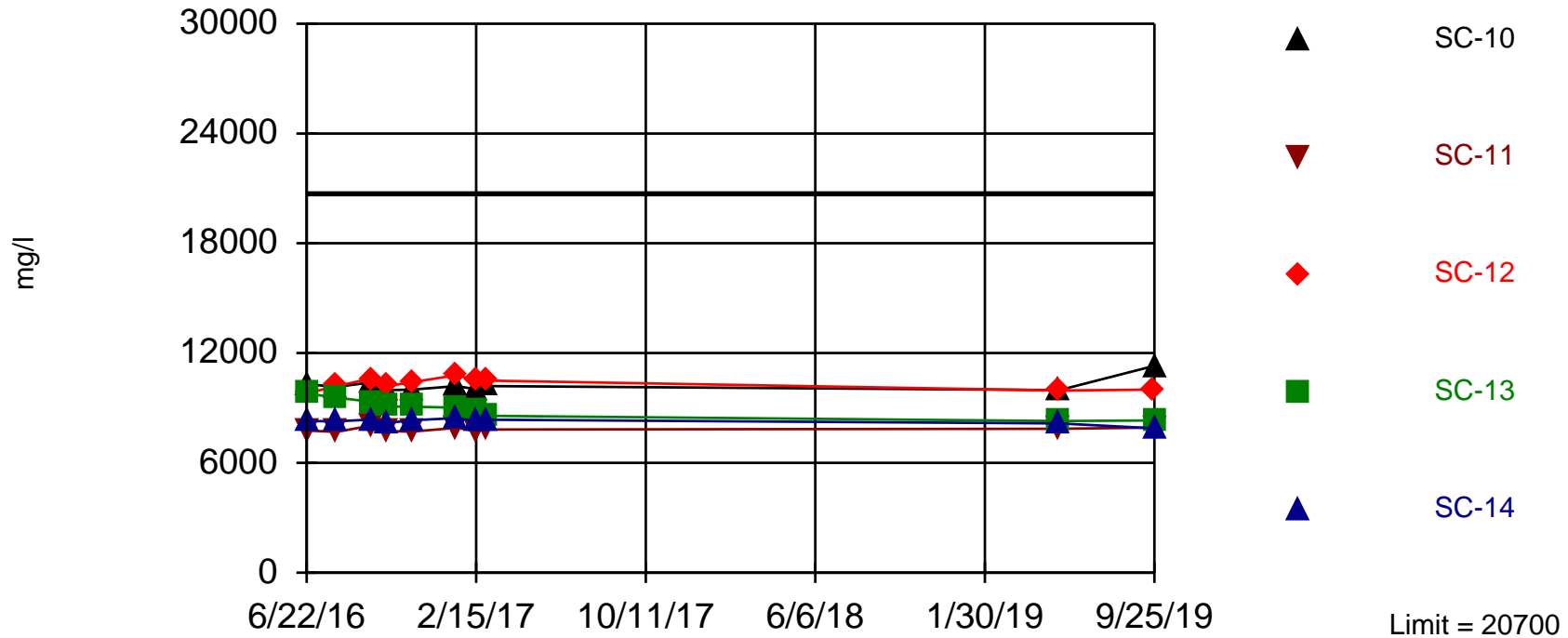
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|-------------|------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|------------|
| 6/22/2016 | 0.016 | 0.1985 (D) | 0.0031 | 0.0311 | 0.212 | 0.0203 | 0.0471 | 0.168 | | |
| 6/23/2016 | | | | | | | | | 0.0393 | |
| 6/27/2016 | | | | | | | | | | 0.0057 |
| 8/2/2016 | 0.0098 (D) | 0.186 | | | | | 0.0412 | | 0.0382 | 0.0069 |
| 8/3/2016 | | | 0.0035 | 0.0236 | 0.216 (D) | 0.0197 | | 0.155 | | |
| 9/19/2016 | 0.028 (D) | 0.157 (D) | | | | | 0.04895 (D) | | 0.0364 (D) | 0.0112 (D) |
| 9/20/2016 | | | 0.0062 (D) | 0.0228 (D) | 0.201 (D) | 0.0252 (D) | | 0.188 (D) | | |
| 10/12/2016 | 0.0167 (D) | 0.138 (D) | | | | | <0.001 (D1) | | 0.04245 (D) | 0.0115 (D) |
| 10/13/2016 | | | 0.0192 (D) | 0.0558 (D) | 0.194 (D) | 0.05055 (D) | | 0.168 (D) | | |
| 11/15/2016 | 0.0136 | 0.145 (D) | | | | | 0.0356 (D) | | 0.0355 (D) | 0.0106 (D) |
| 11/16/2016 | | | <0.001 (D1P) | 0.00765 (D) | 0.201 (DP1) | 0.0237 (DP1) | | 0.163 (DP1) | | |
| 1/18/2017 | 0.0254 (D) | 0.1385 (D) | | | | | 0.0452 (D) | | 0.039 (D) | 0.0067 (D) |
| 1/19/2017 | | | 0.0013 (D) | 0.0202 (D) | 0.22 (D) | 0.0337 (D) | | 0.196 (D) | | |
| 2/14/2017 | 0.0141 (DT) | 0.1415 (D) | | | | | 0.0388 (DT) | | 0.0352 (DT) | 0.0092 (D) |
| 2/15/2017 | | | 0.0033 (D) | 0.0164 (D) | 0.22 (D) | 0.03 (D) | | 0.194 (D) | | |
| 2/28/2017 | 0.00375 (D) | 0.143 (D) | | | | | 0.0367 (D) | | 0.0263 (D) | 0.0011 (D) |
| 3/1/2017 | | | <0.001 (D1) | 0.0177 (D) | 0.224 (D) | 0.02355 (D) | | 0.189 (D) | | |
| 11/13/2017 | 0.015 (D) | 0.135 (D) | | | | | 0.0381 (D) | | 0.0552 (D) | 0.0107 (D) |
| 11/14/2017 | | | 0.0046 (D) | 0.0236 (D) | 0.168 (D) | 0.0252 (D) | | 0.213 (D) | | |
| 2/14/2018 | 0.0068 | 0.169 | | | | | 0.044 | | 0.0543 (D) | 0.0036 |
| 2/15/2018 | | | 0.0055 | 0.0204 | 0.249 | 0.0437 | | 0.355 | | |
| 9/25/2018 | 0.02165 (D) | 0.17 | | | | | 0.0371 | | 0.0512 | 0.0142 |
| 9/26/2018 | | | 0.002 | 0.01845 (D) | 0.111 (D) | 0.0231 | | 0.107 (D) | | |
| 5/14/2019 | 0.0178 (D) | 0.188 (D) | | | | | 0.0402 (D) | | 0.04725 (D) | 0.005 (D) |
| 5/15/2019 | | | 0.005 (D) | 0.0185 (D) | 0.235 (D) | 0.0198 (D) | | 0.186 (D) | | |
| 9/24/2019 | 0.01665 (D) | 0.19 (D) | | | | 0.0134 (D) | 0.0376 (D) | | 0.0399 (D) | 0.0115 (D) |
| 9/25/2019 | | | 0.0045 (D) | 0.015 (D) | 0.17 (D) | | | 0.169 (D) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.007403. Individual comparison alpha = 0.0007428 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

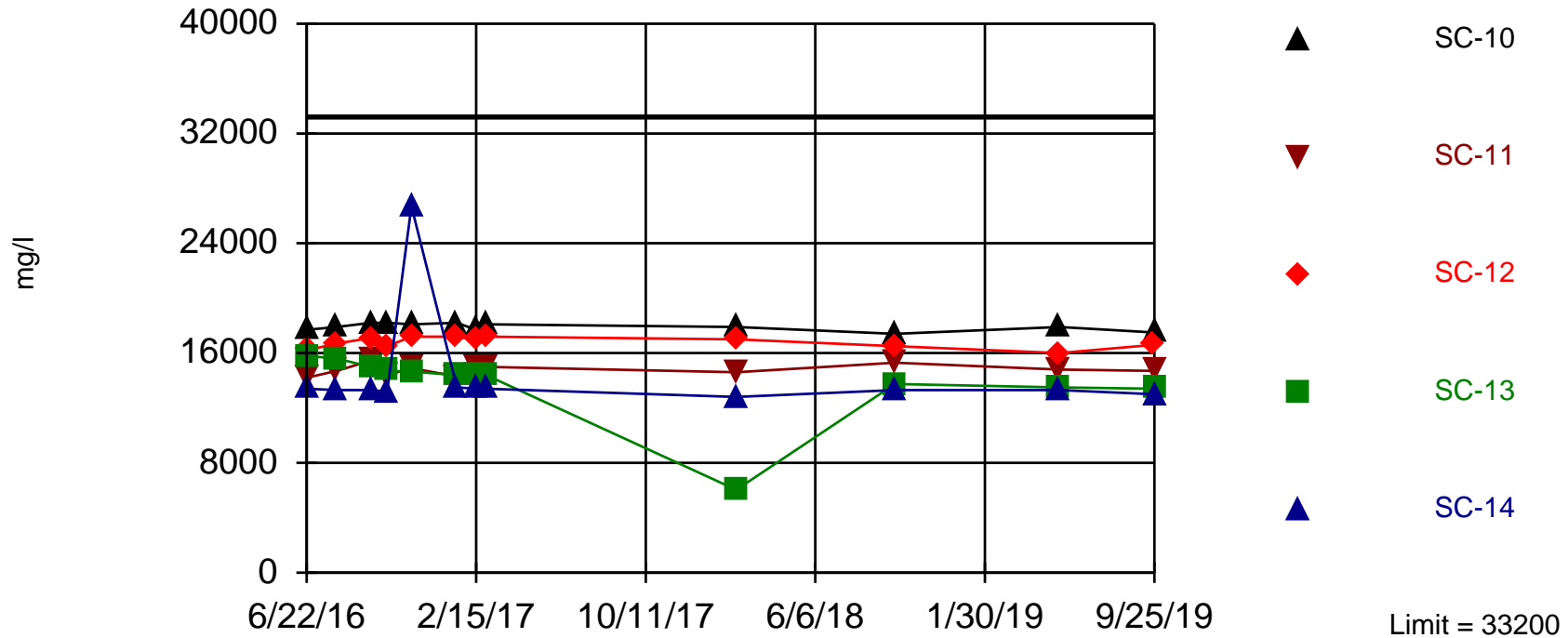
Constituent: Sulfate (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-----------|----------|-----------|----------|-----------|-----------|----------|----------|----------|----------|
| 6/22/2016 | 13200 (D) | 9790 (D) | 9800 (D) | 7770 (D) | 10300 (D) | 17200 (D) | 7080 (D) | 8290 (D) | | |
| 6/23/2016 | | | | | | | | | 5870 (D) | |
| 6/27/2016 | | | | | | | | | | 4820 (D) |
| 8/2/2016 | 13000 (D) | | | | | 17200 (D) | 7000 (D) | | 5650 (D) | 5240 (D) |
| 8/3/2016 | | 9560 (D) | 10200 (D) | 7690 (D) | 10150 (D) | | | 8270 (D) | | |
| 9/19/2016 | 13000 (D) | | | | | 17300 (D) | 7030 (D) | | 5800 (D) | 5380 (D) |
| 9/20/2016 | | 9340 (D) | 10600 (D) | 8035 (D) | 10400 (D) | | | 8370 (D) | | |
| 10/12/2016 | 12800 (D) | | | | | 16600 (D) | 6910 (D) | | 5635 (D) | 4940 (D) |
| 10/13/2016 | | 9080 (D) | 10200 (D) | 7730 (D) | 9980 (D) | | | 8180 (D) | | |
| 11/15/2016 | 13600 (D) | | | | | 17400 (D) | 6910 | | 5735 (D) | 5370 (D) |
| 11/16/2016 | | 9070 (D) | 10400 (D) | 7710 (D) | 10000 (D) | | | 8330 (D) | | |
| 1/18/2017 | 13700 (D) | | | | | 17550 (D) | 7040 (D) | | 5880 (D) | 4590 (D) |
| 1/19/2017 | | 9020 (D) | 10800 (D) | 7910 (D) | 10200 (D) | | | 8450 (D) | | |
| 2/14/2017 | 13200 (D) | | | | | 16800 (D) | 6840 (D) | | 5720 (D) | 4470 (D) |
| 2/15/2017 | | 8840 (D) | 10500 (D) | 7730 (D) | 10020 (D) | | | 8270 (D) | | |
| 2/28/2017 | 13100 (D) | | | | | 17400 (D) | 6940 (D) | | 5820 (D) | 4640 (D) |
| 3/1/2017 | | 8570 (D) | 10500 (D) | 7820 (D) | 10200 (D) | | | 8360 (D) | | |
| 5/14/2019 | 13200 (D) | | | | | 18300 (D) | 6660 (D) | | 5725 (D) | 4250 (D) |
| 5/15/2019 | | 8290 (D) | 9955 (D) | 7860 (D) | 9980 (D) | | | 8160 (D) | | |
| 9/24/2019 | 13250 (D) | | 10000 (D) | | | 20700 (D) | 7130 (D) | | 5770 (D) | 4440 (D) |
| 9/25/2019 | | 8315 (D) | | 7930 (D) | 11300 (D) | | | 7890 (D) | | |

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Constituent: TDS Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: TDS (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

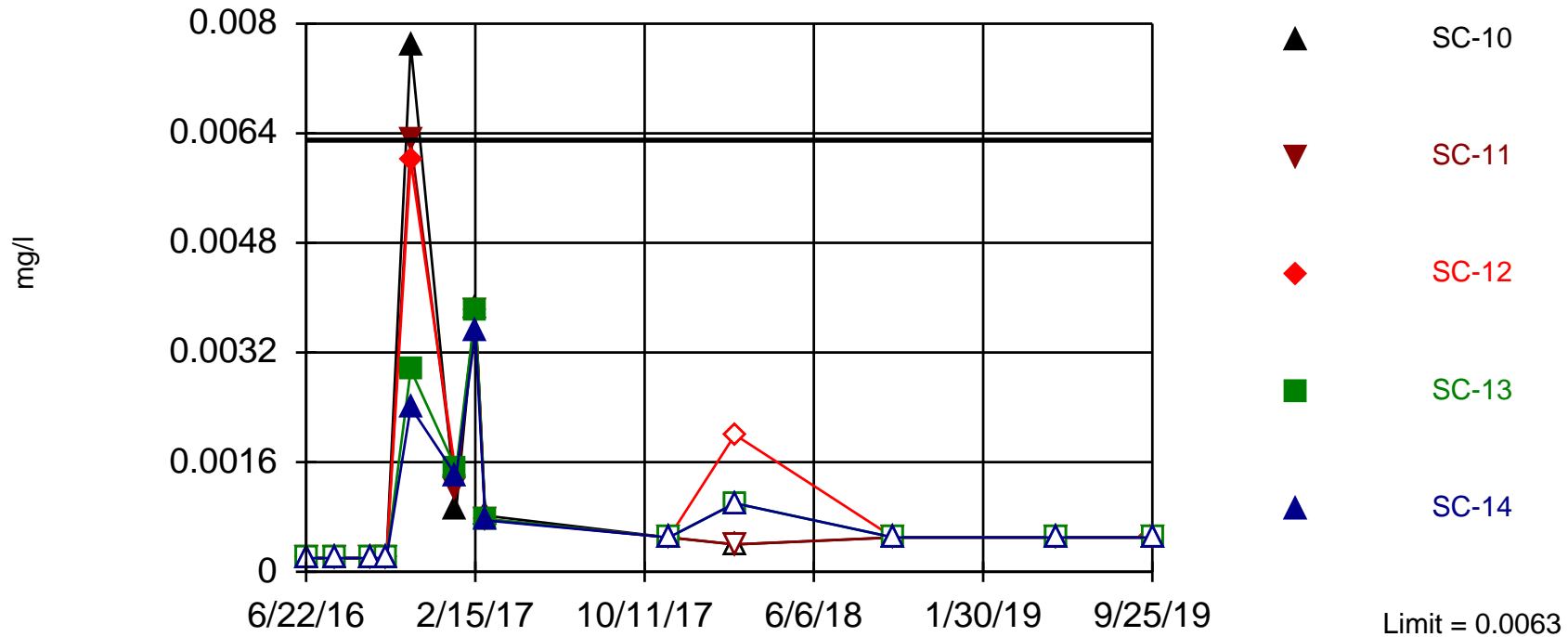
| | FC-1 | FC-2 | SC-14 | SC-11 | SC-12 | SC-10 | SC-13 | CC-1 | FC-3A | FC-3B |
|------------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-----------|----------|-------|
| 6/22/2016 | 22300 | 11200 | 13400 | 14200 | 16200 | 17700 | 15800 | 30950 (D) | | |
| 6/23/2016 | | | | | | | | | 9460 | |
| 6/27/2016 | | | | | | | | | | 7770 |
| 8/2/2016 | 22000 (D) | 10900 | | | | | | 2.1 | 9140 | 9200 |
| 8/3/2016 | | | 13300 | 14700 | 16700 | 17900 (D) | 15600 | | | |
| 9/19/2016 | 21900 | 11250 (D) | | | | | | 30500 | 9320 | 9410 |
| 9/20/2016 | | | 13300 | 15450 (D) | 17100 | 18200 | 15000 | | | |
| 10/12/2016 | 23200 | 11600 | | | | | | 31400 | 9470 (D) | 9450 |
| 10/13/2016 | | | 13200 | 14400 | 16500 (D) | 18200 | 14700 | | | |
| 11/15/2016 | 22100 | 11300 | | | | | | 30600 | 9320 (D) | 9630 |
| 11/16/2016 | | | 26700 | 14900 | 17200 | 18100 | 14650 (D) | | | |
| 1/18/2017 | 22200 | 11200 | | | | | | 31200 (D) | 9180 | 9250 |
| 1/19/2017 | | | 13500 | 14300 | 17200 | 18200 | 14400 | | | |
| 2/14/2017 | 22100 | 11200 | | | | | | 30450 (D) | 9310 | 9350 |
| 2/15/2017 | | | 13400 | 15000 | 17000 | 17700 (D) | 14400 | | | |
| 2/28/2017 | 22100 (D) | 11300 | | | | | | 30800 | 9490 | 9410 |
| 3/1/2017 | | | 13400 | 15000 | 17200 (D) | 18100 | 14400 | | | |
| 2/14/2018 | 22300 | 11000 | | | | | | 32500 | 9400 (D) | 9040 |
| 2/15/2018 | | | 12800 | 14600 | 17000 | 17900 | 6040 | | | |
| 9/25/2018 | 21800 (D) | 10900 | | | | | | 31400 | 9700 | 8970 |
| 9/26/2018 | | | 13300 | 15300 | 16500 | 17400 | 13750 (D) | | | |
| 5/14/2019 | 22300 | 10800 | | | | | | 32700 | 9280 (D) | 7890 |
| 5/15/2019 | | | 13300 | 14800 | 16000 (D) | 17900 | 13500 | | | |
| 9/24/2019 | 22200 (D) | 10600 | | | 16600 | | | 33200 | 9220 | 7860 |
| 9/25/2019 | | | 13000 | 14700 | | 17500 | 13400 (D) | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 66.15% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Thallium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

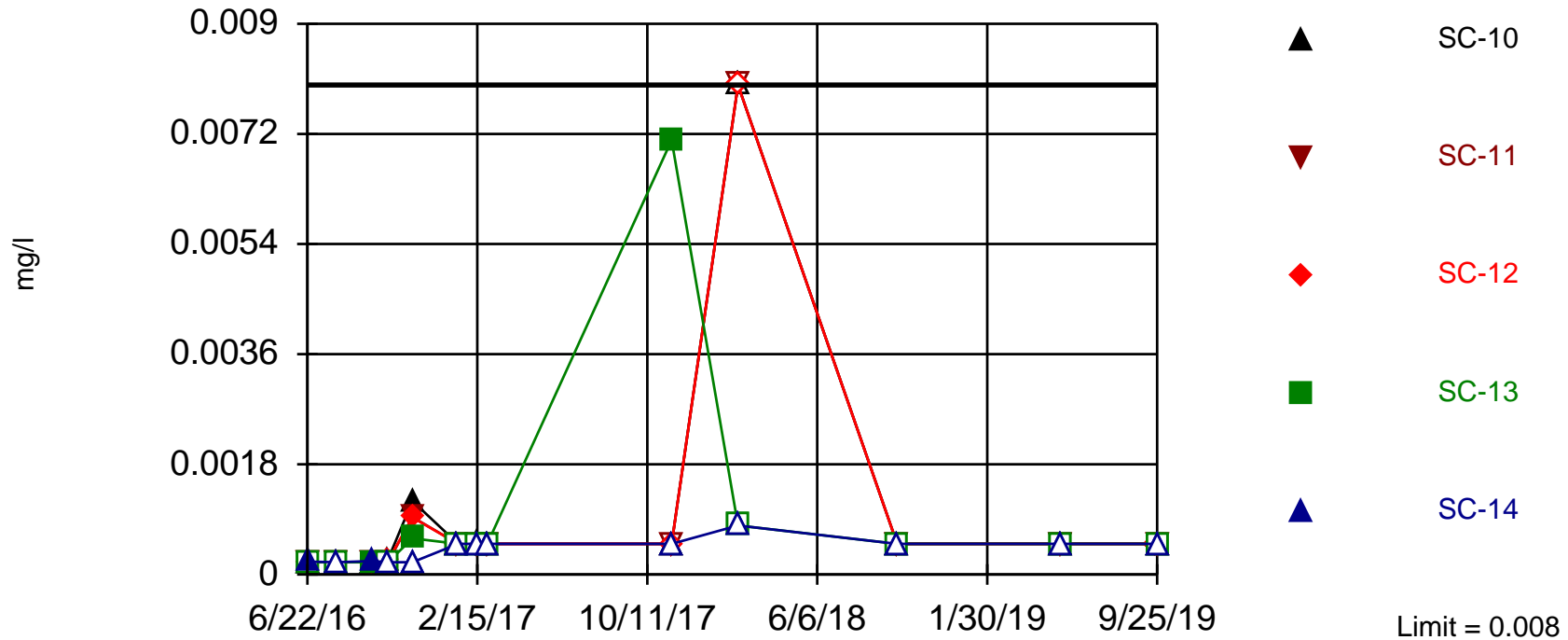
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | 0.0002 | 0.000455 (D) | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/23/2016 | | | | | | | | | <0.0002 | |
| 6/27/2016 | | | | | | | | | | <0.0002 |
| 8/2/2016 | <0.0002 (D) | 0.00045 | | | | | <0.0002 | | <0.0002 | <0.0002 |
| 8/3/2016 | | | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 | | <0.0002 | | |
| 9/19/2016 | 0.00027 (D) | <0.0002 (D1) | | | | | 0.000545 (D) | | <0.0002 (D1) | <0.0002 (D1) |
| 9/20/2016 | | | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D) | | |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D) | <0.0002 (D1) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 11/15/2016 | 0.0061 (D) | 0.0063 (D) | | | | | <0.0002 (D1) | | 0.0057 (D) | 0.0056 (D) |
| 11/16/2016 | | | 0.0024 (D) | 0.00295 (D) | 0.0077 (D) | 0.006 (D) | | 0.0063 (D) | | |
| 1/18/2017 | <0.0005 (D1) | 0.0014 (D) | | | | | <0.0005 (D1) | | 0.00069 (D) | 0.00098 (D) |
| 1/19/2017 | | | 0.0014 (D) | 0.0015 (D) | 0.00091 (D) | 0.0014 (D) | | 0.0012 (D) | | |
| 2/14/2017 | 0.0037 (D) | 0.00385 (D) | | | | | 0.0036 (D) | | 0.0034 (D) | 0.0062 (D) |
| 2/15/2017 | | | 0.0035 (D) | 0.0038 (D) | 0.00385 (D) | 0.0038 (D) | | 0.0038 (D) | | |
| 2/28/2017 | 0.0011 (D) | 0.0014 (D) | | | | | 0.0011 (D) | | 0.0011 (D) | 0.00091 (D) |
| 3/1/2017 | | | 0.00075 (D) | 0.00077 (D) | 0.00082 (D) | 0.00076 (D) | | 0.00077 (D) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.002 | <0.002 | | | | | <0.001 | | <0.001 (D) | <0.001 |
| 2/15/2018 | | | <0.001 | <0.001 | <0.0004 | <0.002 | | <0.0004 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 (D1) | <0.0005 | | <0.0005 (D1) | | |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | | | <0.0005 (D1D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 81.54% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Antimony, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

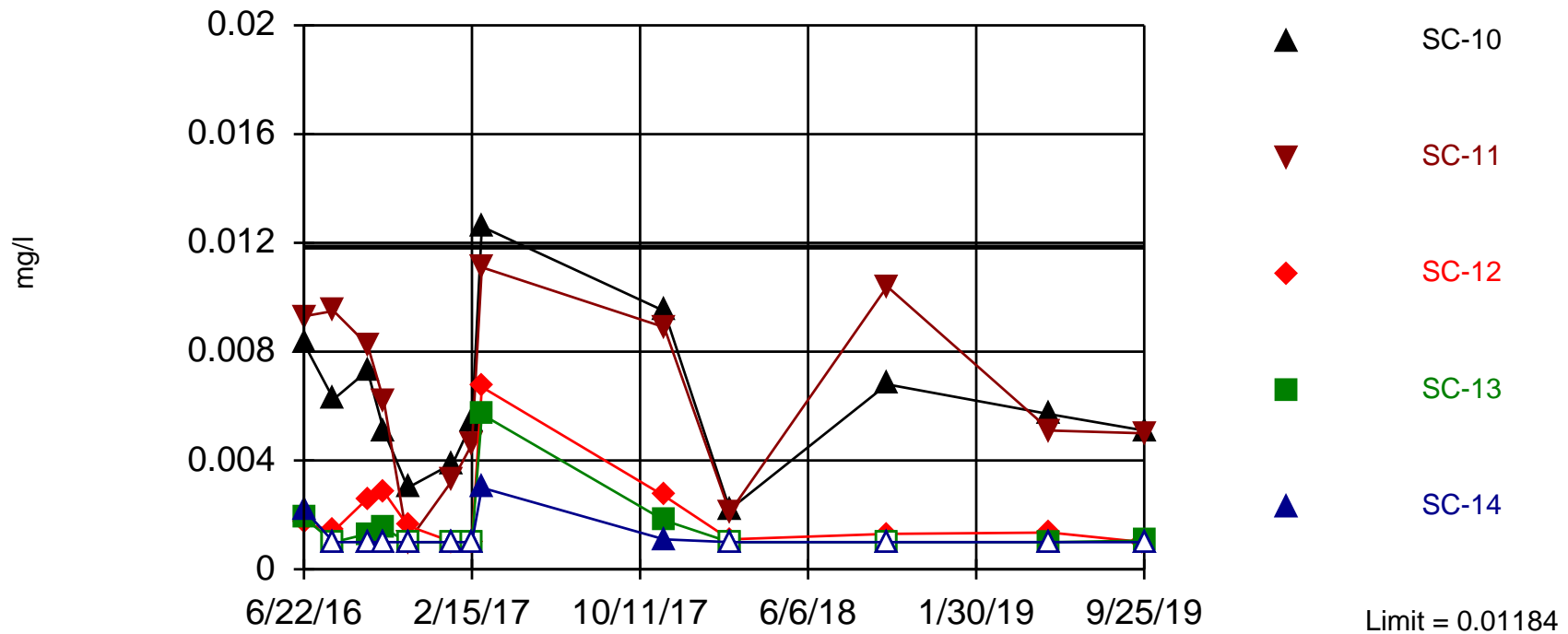
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 (D) | 0.00021 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/23/2016 | | | | | | | | | 0.00021 | |
| 6/27/2016 | | | | | | | | | | 0.00065 |
| 8/2/2016 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | <0.0002 | 0.00061 |
| 8/3/2016 | | | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 | | <0.0002 | | |
| 9/19/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D1) | <0.0002 (D1) |
| 9/20/2016 | | | 0.00022 (D) | 0.0002 (D) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 10/12/2016 | <0.0002 (D1) | 0.0004 (D) | | | | | <0.0002 (D1) | | 0.00026 (D) | 0.00032 (D) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00025 (D) | 0.00023 (D) | | 0.0002 (D) | | |
| 11/15/2016 | 0.0016 (D) | 0.0015 (D) | | | | | <0.0002 (D1) | | 0.0015 (D) | 0.0015 (D) |
| 11/16/2016 | | | <0.0002 (D1) | 0.00059 (D) | 0.0012 (D) | 0.00093 (D) | | 0.00094 (D) | | |
| 1/18/2017 | <0.0005 (D1P) | <0.0005 (D1) | | | | | <0.0005 (D1P) | | 0.00055 (D) | <0.0005 (D1) |
| 1/19/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | 0.00066 (D) |
| 2/15/2017 | | | <0.0005 (D1) | <0.0005 (D1) | 0.00054 (D) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/28/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 3/1/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | 0.0071 (DT) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.008 | <0.008 | | | | | <0.0008 | | <0.0008 (D) | <0.0008 |
| 2/15/2018 | | | <0.0008 | <0.0008 | <0.008 | <0.008 | | <0.008 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 | <0.0005 | | <0.0005 | | |
| 5/14/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=0.06086, Std. Dev.=0.02244, n=64, 14.06% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9519, critical = 0.947. Kappa = 2.138 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Prediction Limit

Constituent: Arsenic, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

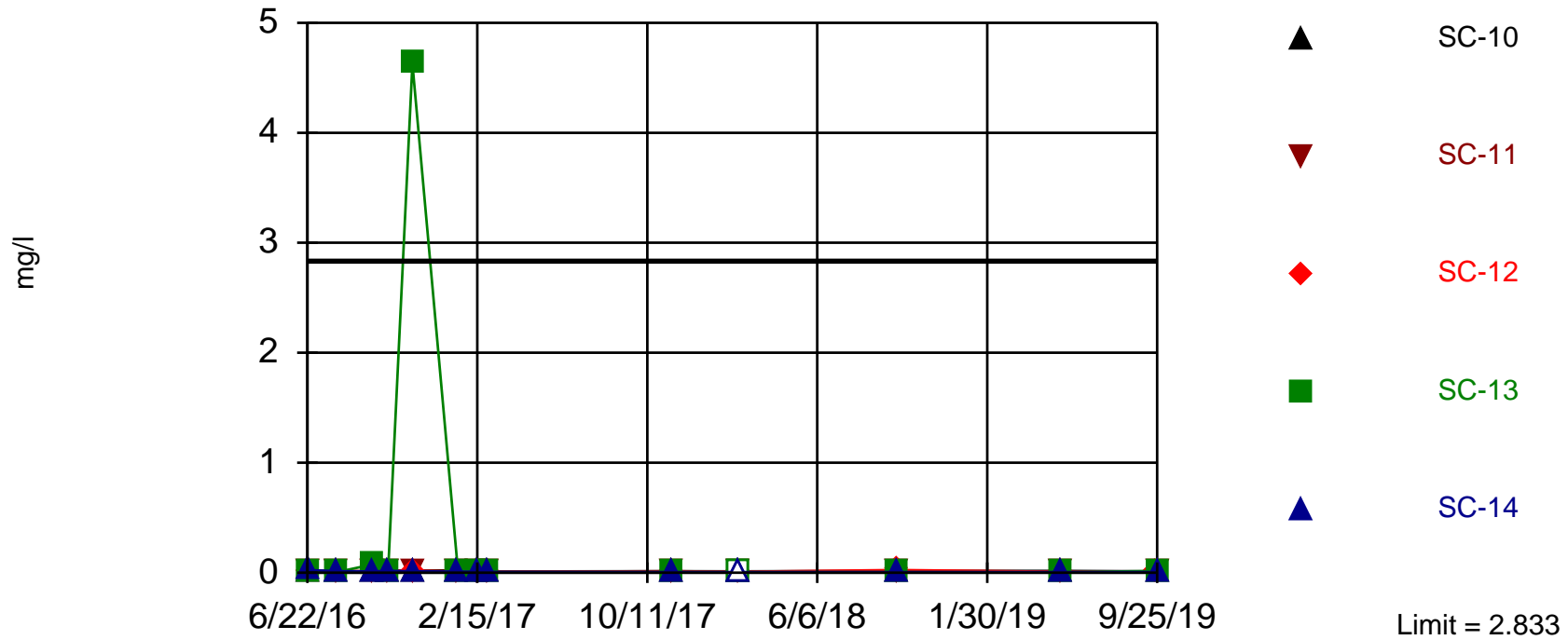
| | FC-1 | SC-14 | SC-13 | SC-12 | SC-11 | CC-1 | FC-2 | SC-10 | FC-3A | FC-3B |
|------------|-------------|--------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|------------|
| 6/22/2016 | 0.0042 | 0.0022 | 0.0019 | 0.0017 | 0.0093 | 0.0109 (D) | 0.0025 | 0.0083 | | |
| 6/23/2016 | | | | | | | | | 0.0031 | |
| 6/27/2016 | | | | | | | | | | 0.0026 |
| 8/2/2016 | 0.0025 (D) | | | | | 0.0105 | 0.0016 | | 0.0021 | 0.0031 |
| 8/3/2016 | | <0.001 | <0.001 | 0.0014 | 0.0095 | | | 0.00625 (D) | | |
| 9/19/2016 | 0.0094 (D) | | | | | 0.0089 (D) | 0.0036 (D) | | 0.0029 (D) | 0.0051 (D) |
| 9/20/2016 | | <0.001 (D1) | 0.0013 (D) | 0.0026 (D) | 0.00825 (D) | | | 0.0073 (D) | | |
| 10/12/2016 | 0.0023 (D) | | | | | 0.0071 (D) | <0.001 (D1) | | 0.001325 (D) | 0.0056 (D) |
| 10/13/2016 | | <0.001 (D1) | 0.0015 (D) | 0.00285 (D) | 0.0062 (D) | | | 0.0051 (D) | | |
| 11/15/2016 | 0.0036 (D) | | | | | 0.0054 (D) | <0.001 (D1) | | 0.0018 (D) | 0.007 (D) |
| 11/16/2016 | | <0.001 (D1) | <0.001 (D) | 0.0016 (D) | <0.001 (D1) | | | 0.003 (D) | | |
| 1/18/2017 | 0.0061 (D) | | | | | 0.00255 (D) | 0.0011 (D) | | <0.001 (D1) | 0.0057 (D) |
| 1/19/2017 | | <0.001 (D1) | <0.001 (D1) | <0.001 (D1) | 0.0033 (D) | | | 0.0039 (D) | | |
| 2/14/2017 | <0.001 (D1) | | | | | 0.00495 (D) | <0.001 (D1) | | <0.001 (D1) | 0.004 (D) |
| 2/15/2017 | | <0.001 (D) | <0.001 (D1) | <0.001 (D1) | 0.0046 (D) | | | 0.0054 (D) | | |
| 2/28/2017 | 0.00625 (D) | | | | | 0.011 (D) | 0.0076 (D) | | 0.0069 (D) | 0.0081 (D) |
| 3/1/2017 | | 0.003 (D) | 0.0057 (D) | 0.0067 (D) | 0.0111 (D) | | | 0.0126 (D) | | |
| 11/13/2017 | 0.0041 (D) | | | | | 0.008 (D) | 0.0025 (D) | | 0.0022 (D) | 0.0064 (D) |
| 11/14/2017 | | 0.0011 (D) | 0.0018 (D) | 0.0027 (D) | 0.0089 (D) | | | 0.0095 (D) | | |
| 2/14/2018 | <0.002 | | | | | | <0.001 | | 0.00115 (D) | 0.0026 |
| 2/15/2018 | | <0.001 | <0.001 | 0.0011 | 0.0021 | | | 0.0022 | | |
| 9/25/2018 | 0.005 (D) | | | | | 0.0115 | 0.0014 | | 0.003 | 0.0074 |
| 9/26/2018 | | <0.001 | <0.001 (D) | 0.0013 | 0.0104 | | | 0.0068 | | |
| 5/14/2019 | 0.0029 | | | | | 0.0072 (D) | 0.0013 (D) | | 0.0017 (D) | 0.002 (D) |
| 5/15/2019 | | <0.001 (D) | 0.001 (D) | 0.00135 (D) | 0.0051 (D) | | | 0.0057 (D) | | |
| 9/24/2019 | 0.00295 (D) | | | <0.001 (D1D) | | 0.0081 (D) | <0.001 (D1D) | | 0.0016 (D) | 0.0044 (D) |
| 9/25/2019 | | <0.001 (D1D) | 0.00105 (D) | | 0.005 (D) | | | 0.0051 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 6.154% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Barium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

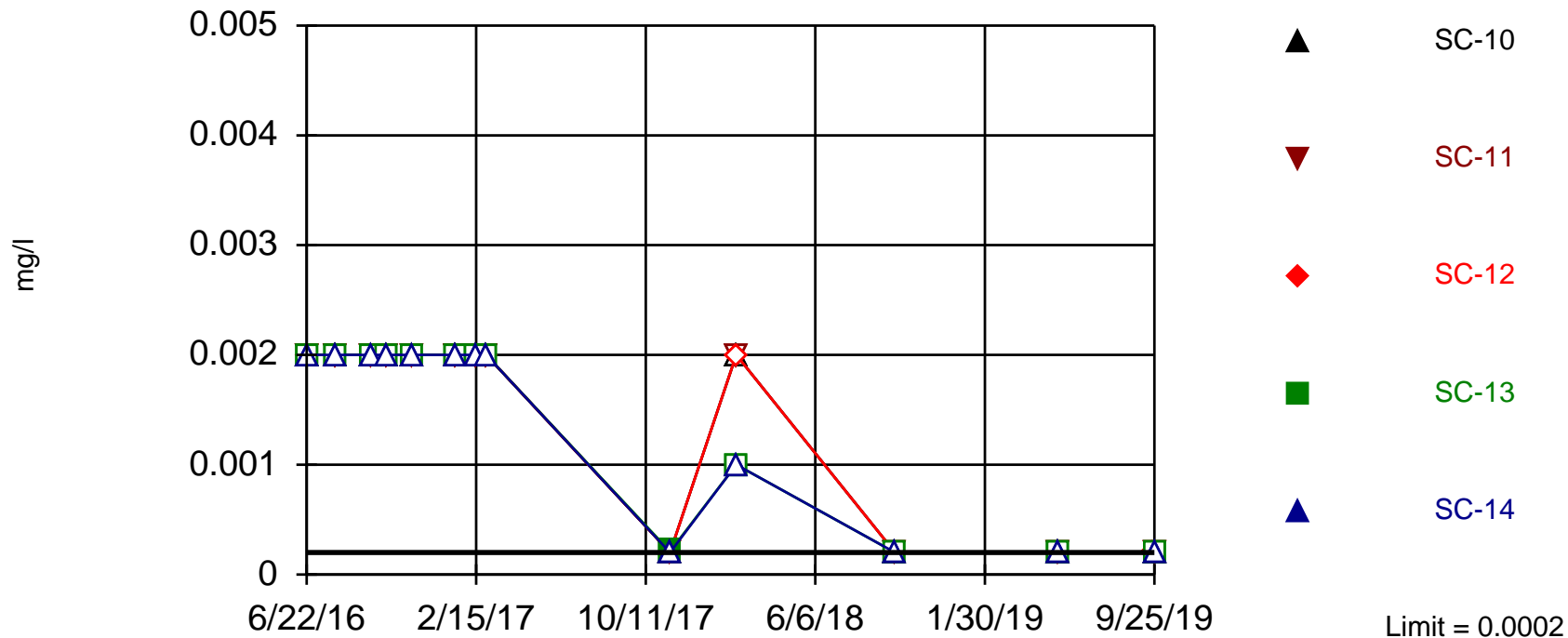
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|--------------|------------|--------------|--------------|-------------|--------------|-------------|------------|-------------|------------|
| 6/22/2016 | 0.00954 | 0.0184 | 2.83285 (D) | 0.017 | 0.0112 | 0.00979 | 0.00503 | 0.024 | | |
| 6/23/2016 | | | | | | | | | 0.034 | |
| 6/27/2016 | | | | | | | | | | 0.0336 |
| 8/2/2016 | 0.008725 (D) | | 0.00512 | | | | <0.005 | | 0.0202 | 0.0253 |
| 8/3/2016 | | 0.0138 (D) | | 0.0165 | 0.0133 | 0.00703 | | 0.0131 | | |
| 9/19/2016 | 0.00928 | | 0.00542 | | | | 0.00525 (D) | | 0.0218 | 0.0183 |
| 9/20/2016 | | 0.013 | | 0.009275 (D) | | 0.0736 | | 0.0109 | | |
| 10/12/2016 | 0.00905 | | 0.00593 | | | | 0.00536 | | 0.03735 (D) | 0.0184 |
| 10/13/2016 | | 0.0141 | | 0.0225 | 0.01415 (D) | 0.00797 | | 0.0163 | | |
| 11/15/2016 | 0.0102 | | 0.00608 | | | | 0.00516 | | 0.01735 (D) | 0.0652 |
| 11/16/2016 | | 0.0178 | | 0.016 | 0.0178 | 4.629645 (D) | | 0.0136 | | |
| 1/18/2017 | 0.00929 | | 0.005675 (D) | | | | 0.00539 | | 0.0164 | 0.0244 |
| 1/19/2017 | | 0.0216 | | 0.0117 | 0.0108 | 0.0075 | | 0.00905 | | |
| 2/14/2017 | 0.01 | | 0.006005 (D) | | | | 0.00566 | | 0.0167 | 0.023 |
| 2/15/2017 | | 0.0145 (D) | | 0.0156 | 0.0127 | 0.00742 | | 0.00766 | | |
| 2/28/2017 | 0.009 (D) | | <0.005 | | | | 0.0054 | | 0.0148 | 0.0208 |
| 3/1/2017 | | 0.0105 | | 0.00732 | 0.00781 (D) | 0.00603 | | 0.0063 | | |
| 11/13/2017 | 0.0082 (D) | | 0.004 (D) | | | | 0.00435 (D) | | 0.0259 (D) | 0.0154 (D) |
| 11/14/2017 | | 0.014 (D) | | 0.01395 (D) | 0.0063 (D) | 0.006 (D) | | 0.0052 (D) | | |
| 2/14/2018 | 0.0105 | | <0.01 | | | | <0.01 | | 0.01205 (D) | 0.0196 |
| 2/15/2018 | | 0.0124 | | 0.0089 | 0.0079 | <0.01 | | <0.01 | | |
| 9/25/2018 | 0.00665 (D) | | 0.0039 | | | | 0.004 | | 0.021 | 0.037 |
| 9/26/2018 | | 0.0165 | | 0.0099 | 0.0245 | 0.00575 (D) | | 0.0057 | | |
| 5/14/2019 | 0.0073 | | 0.0044 (D) | | | | 0.0043 (D) | | 0.0265 (D) | 0.0146 (D) |
| 5/15/2019 | | 0.0168 (D) | | 0.0086 (D) | 0.00755 (D) | 0.0046 (D) | | 0.005 (D) | | |
| 9/24/2019 | 0.0073 (D) | | 0.0041 (D) | | 0.007 (D) | | 0.0056 (D) | | 0.0276 (D) | 0.0268 (D) |
| 9/25/2019 | | 0.0124 (D) | | 0.0099 (D) | | 0.0168 (D) | | 0.0049 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 65) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Beryllium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

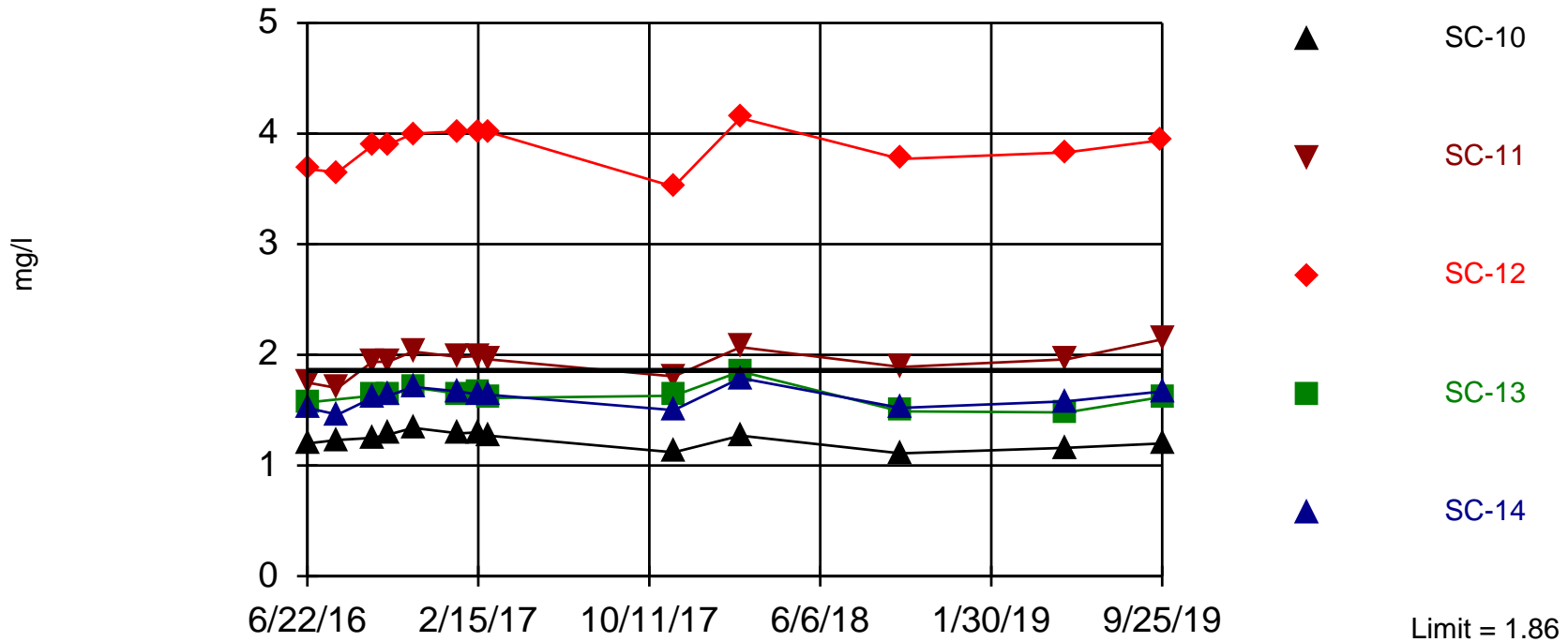
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.002 | <0.002 (D) | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | | |
| 6/23/2016 | | | | | | | | | <0.002 | |
| 6/27/2016 | | | | | | | | | | <0.002 |
| 8/2/2016 | <0.002 (D) | <0.002 | | | | | <0.002 | | <0.002 | <0.002 |
| 8/3/2016 | | | <0.002 | <0.002 | <0.002 (D) | <0.002 | | <0.002 | | |
| 9/19/2016 | <0.002 | <0.002 | | | | | <0.002 (D) | | <0.002 | <0.002 |
| 9/20/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 (D) | | |
| 10/12/2016 | <0.002 | <0.002 | | | | | <0.002 | | <0.002 (D) | <0.002 |
| 10/13/2016 | | | <0.002 | <0.002 | <0.002 | <0.002 (D) | | <0.002 | | |
| 11/15/2016 | <0.002 | <0.002 | | | | | <0.002 | | <0.002 (D) | <0.002 |
| 11/16/2016 | | | <0.002 | <0.002 (D) | <0.002 | <0.002 | | <0.002 | | |
| 1/18/2017 | <0.002 | <0.002 (D) | | | | | <0.002 | | <0.002 | <0.002 |
| 1/19/2017 | | | <0.002 | <0.002 | <0.002 | <0.002 | | <0.002 | | |
| 2/14/2017 | <0.002 | <0.002 (D) | | | | | <0.002 | | <0.002 | <0.002 |
| 2/15/2017 | | | <0.002 | <0.002 | <0.002 (D) | <0.002 | | <0.002 | | |
| 2/28/2017 | <0.002 (D) | <0.002 | | | | | <0.002 | | <0.002 | <0.002 |
| 3/1/2017 | | | <0.002 | <0.002 | <0.002 | <0.002 (D) | | <0.002 | | |
| 11/13/2017 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D1) | <0.0002 (D1) |
| 11/14/2017 | | | <0.0002 (D1) | 0.00021 (D) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 2/14/2018 | <0.001 (T) | <0.001 (T) | | | | | <0.0004 (T) | | <0.0004 (TD) | <0.001 (T) |
| 2/15/2018 | | | <0.001 (T) | <0.001 (T) | <0.002 | <0.002 | | <0.002 | | |
| 9/25/2018 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | <0.0002 | <0.0002 |
| 9/26/2018 | | | <0.0002 | <0.0002 (D) | <0.0002 | <0.0002 | | <0.0002 | | |
| 5/14/2019 | <0.0002 | <0.0002 (D1D) | | | | | <0.0002 | | <0.0002 (D1D) | <0.0002 (D1D) |
| 5/15/2019 | | | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | | <0.0002 (D1D) | | |
| 9/24/2019 | <0.0002 (D1D) | <0.0002 (D1D) | | | | <0.0002 (D1D) | <0.0002 (DD1) | | <0.0002 (DD1) | <0.0002 (D1D) |
| 9/25/2019 | | | <0.0002 (D1D) | <0.0002 (D1D) | <0.0002 (D1D) | | | <0.0002 (D1D) | | |

Exceeds Limit: SC-11, SC-12

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Boron, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

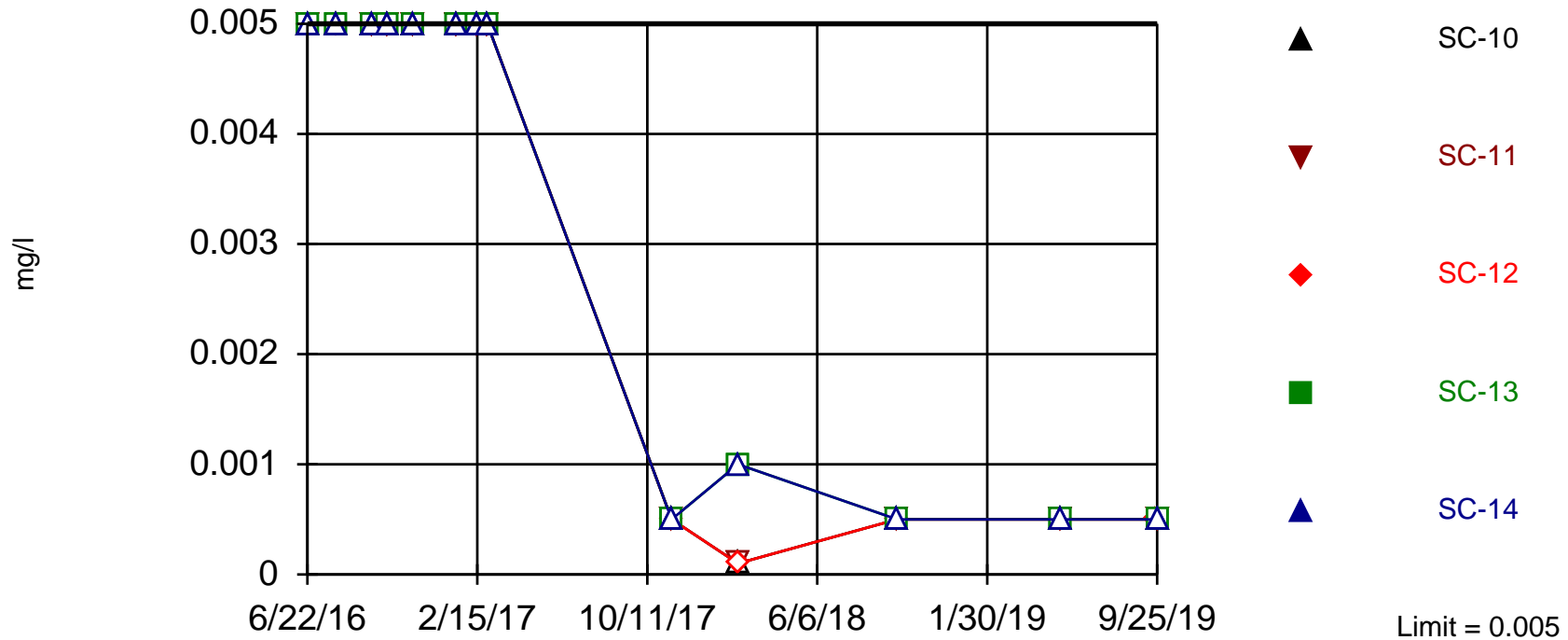
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | FC-2 | SC-14 | SC-13 | FC-3A | FC-3B |
|------------|------------|------------|-----------|------------|-------------|-----------|-----------|------------|-----------|----------|
| 6/22/2016 | 0.976 (T) | 1.2 | 1.07 (D) | 1.75 | 3.68 | 0.901 (T) | 1.52 | 1.57 | | |
| 6/23/2016 | | | | | | | | | 1.31 | |
| 6/27/2016 | | | | | | | | | | 1.09 |
| 8/2/2016 | 0.9285 (D) | | 1.03 | | | 0.902 | | | 1.08 | 1.28 |
| 8/3/2016 | | 1.23 (D) | | 1.7 | 3.65 | | 1.46 | | | |
| 9/19/2016 | 0.932 | | 1.05 | | | 0.937 (D) | | | 1.2 | 1.46 |
| 9/20/2016 | | 1.25 | | 1.935 (D) | 3.89 | | 1.61 | 1.63 | | |
| 10/12/2016 | 0.931 | | 1.1 | | | 0.923 | | | 1.175 (D) | 1.53 |
| 10/13/2016 | | 1.28 | | 1.94 | 3.9 (D) | | 1.63 | 1.63 | | |
| 11/15/2016 | 1.03 | | 1.12 | | | 0.936 | | | 1.185 (D) | 1.68 |
| 11/16/2016 | | 1.34 | | 2.03 | 4 | | 1.71 | 1.705 (D) | | |
| 1/18/2017 | 0.98 | | 1.125 (D) | | | 0.946 | | | 1.19 | 1.66 |
| 1/19/2017 | | 1.29 | | 1.98 | 4.02 | | 1.67 | 1.65 | | |
| 2/14/2017 | 0.972 | | 1.115 (D) | | | 0.934 | | | 1.14 | 1.59 |
| 2/15/2017 | | 1.3 (D) | | 1.99 | 4.02 | | 1.64 | 1.67 | | |
| 2/28/2017 | 0.9495 (D) | | 1.03 (D) | | | 0.956 (D) | | | 1.14 (D) | 1.73 (D) |
| 3/1/2017 | | 1.27 (DT1) | | 1.96 (DT1) | 4.015 (DT1) | | 1.64 (D) | 1.61 (DT1) | | |
| 11/13/2017 | 0.884 | | 1.04 | | | 0.925 (D) | | | 1.05 | 1.69 |
| 11/14/2017 | | 1.12 | | 1.805 (D) | 3.52 | | 1.5 | 1.63 | | |
| 2/14/2018 | 1.05 (D) | | 1.08 (D) | | | 0.957 (D) | | | 1.13 (D) | 1.86 (D) |
| 2/15/2018 | | 1.27 (DT) | | 2.07 (DT) | 4.14 (DT) | | 1.79 (DT) | 1.85 (DT) | | |
| 9/25/2018 | 0.887 (D) | | 1 (D) | | | 0.887 (D) | | | 1.03 (D) | 1.73 (D) |
| 9/26/2018 | | 1.11 (D) | | 1.89 (D) | 3.77 (D) | | 1.52 (D) | 1.49 (D) | | |
| 5/14/2019 | 1.02 | | 1.07 | | | 0.926 | | | 1.04 (D) | 1.3 |
| 5/15/2019 | | 1.16 (T) | | 1.96 (T) | 3.83 (TD) | | 1.58 (T) | 1.48 (T) | | |
| 9/24/2019 | 0.969 (D) | | 1.05 | | 3.94 | 0.948 | | | 1.07 | 1.42 |
| 9/25/2019 | | 1.2 | | 2.14 | | | 1.67 | 1.62 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 95.38% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Cadmium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

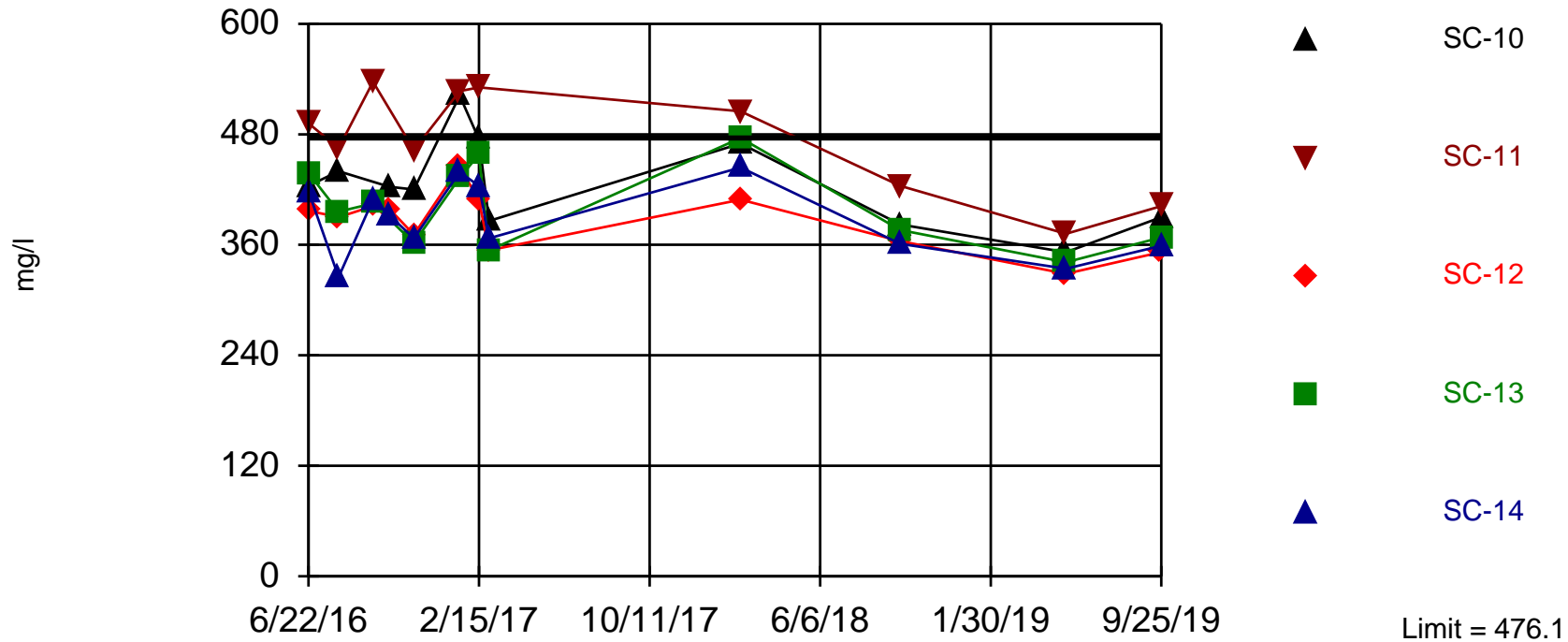
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | <0.005 |
| 8/2/2016 | <0.005 (D) | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 8/3/2016 | | <0.005 (D) | | | <0.005 | <0.005 | | <0.005 | | |
| 9/19/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 9/20/2016 | | <0.005 | | <0.005 (D) | <0.005 | <0.005 | | <0.005 | | |
| 10/12/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 (D) | <0.005 |
| 10/13/2016 | | <0.005 | | <0.005 | <0.005 (D) | <0.005 | | <0.005 | | |
| 11/15/2016 | <0.005 | | <0.005 | | | | <0.005 | | <0.005 (D) | <0.005 |
| 11/16/2016 | | <0.005 | | <0.005 | <0.005 | <0.005 (D) | | <0.005 | | |
| 1/18/2017 | <0.005 | | <0.005 (D) | | | | <0.005 | | <0.005 | <0.005 |
| 1/19/2017 | | <0.005 | | <0.005 | <0.005 | <0.005 | | <0.005 | | |
| 2/14/2017 | <0.005 | | <0.005 (D) | | | | <0.005 | | <0.005 | <0.005 |
| 2/15/2017 | | <0.005 (D) | | <0.005 | <0.005 | <0.005 | | <0.005 | | |
| 2/28/2017 | <0.005 (D) | | <0.005 | | | | <0.005 | | <0.005 | <0.005 |
| 3/1/2017 | | <0.005 | | <0.005 | <0.005 (D) | <0.005 | | <0.005 | | |
| 11/13/2017 | <0.0005 (D1) | | <0.0005 (D1) | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.001 | | <0.001 | | | | 0.00031 | | 0.000365 (D) | 0.00032 |
| 2/15/2018 | | <0.0001 | | <0.0001 | <0.0001 | <0.001 | | <0.001 | | |
| 9/25/2018 | <0.0005 (D) | | <0.0005 | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | <0.0005 | | <0.0005 | <0.0005 | <0.0005 (D) | | <0.0005 | | |
| 5/14/2019 | <0.0005 | | <0.0005 (D1D) | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | | <0.0005 (D1D) | | |

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube transformation): Mean=5.9e7, Std. Dev.=2.3e7, n=52. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9692, critical = 0.937. Kappa = 2.162 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Constituent: Calcium, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

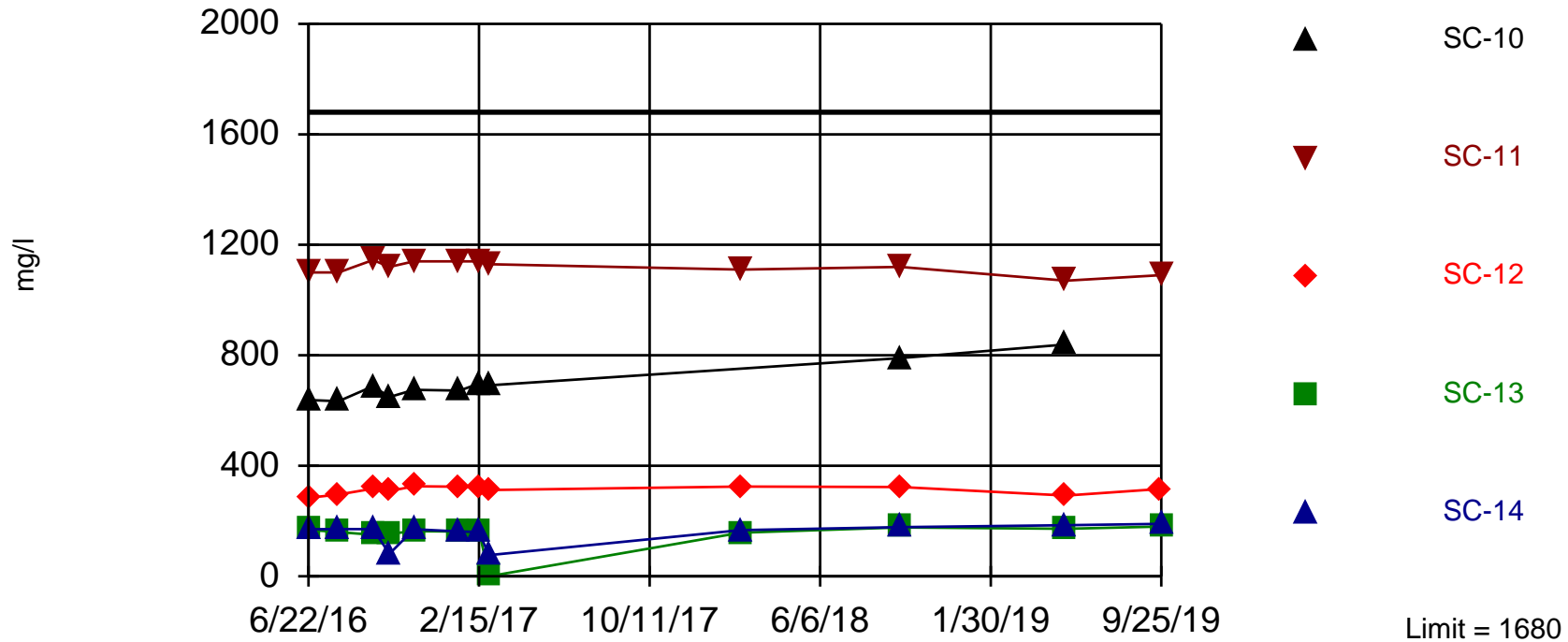
Constituent: Calcium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-2 | SC-10 | SC-11 | SC-12 | CC-1 | SC-14 | SC-13 | FC-3A | FC-3B |
|------------|-------------|-------------|-------------|-----------|-------------|-------------|-----------|-----------|-------------|-----------|
| 6/22/2016 | 404 | 405 (T1D) | 424 (DT1) | 492 (DT1) | 397 (DT1) | 472 (DT1) | 418 (DT1) | 438 (DT1) | | |
| 6/23/2016 | | | | | | | | | 440 (DT1) | |
| 6/27/2016 | | | | | | | | | | 453 (DT1) |
| 8/2/2016 | 410 (DT1) | 440 (DT1) | | | | | | | 417 (DT1) | 412 (DT1) |
| 8/3/2016 | | | 440 (DT1) | 465 (DT1) | 390 (DT1) | | 325 | 396 (DT1) | | |
| 9/19/2016 | 388 (DT1) | 393.5 (DT1) | | | | 483 (DT1) | | | 433 (DT1) | 424 (DT1) |
| 9/20/2016 | | | | 537 (DT1) | 402 (DT1) | | 409 (D) | 405 (D) | | |
| 10/12/2016 | 389 (D) | 390 (D) | | | | 398 (DT1) | | | 398 (DT1) | |
| 10/13/2016 | | | 423 (DT1) | | 399 (DT1) | | 392 (DT1) | | | |
| 11/15/2016 | | | | | | | | | 385 (D) | 331 (D) |
| 11/16/2016 | | | 420 (DT1) | 463 (DT1) | 371 (DT1) | | 367 (DT1) | 362 (DT1) | | |
| 1/18/2017 | 438 (T1D) | 438 (T1D) | | | | | | | 445 (DT1) | 282 (DT1) |
| 1/19/2017 | | | 522 (DT1) | 527 (DT1) | 445 (D) | | 439 (DT1) | 433 (DT1) | | |
| 2/14/2017 | 408 (DT1) | | | | | 431.5 (DT1) | | | 420 (DT1) | 296 (DT1) |
| 2/15/2017 | | | 474.5 (DT1) | 531 (DT1) | 408 (DT1) | | 424 (DT1) | 458 (DT1) | | |
| 2/28/2017 | 376.5 (DT1) | 381 (DT1) | | | | 379 (DT1) | | | 390 (DT1) | 325 (DT1) |
| 3/1/2017 | | | 386 (DT1) | | 354 (DT1) | | 367 (DT1) | 354 (DT1) | | |
| 2/14/2018 | 397 (DT) | 387 (DT) | | | | 392 (DT) | | | 401 (DT) | 246 (DT) |
| 2/15/2018 | | | 470 (DT) | 505 (DT) | 409 (DT) | | 444 (DT) | 476 (DT) | | |
| 9/25/2018 | 370 (D) | 368 (D) | | | | | | | 386 (D) | 233 (D) |
| 9/26/2018 | | | 382 (D) | 424 (D) | 364 (D) | | 361 (D) | 376 (D) | | |
| 5/14/2019 | 337 (T1) | 344 | | | | 340 (T1) | | | 353.5 (T1D) | 196 (T1) |
| 5/15/2019 | | | 352 (T1) | 372 (T1) | 328.5 (T1D) | | 334 (T1) | 341 (T1) | | |
| 9/24/2019 | 368.5 (D) | 374 (D) | | | 352 (DT1) | 400 (D) | | | 379 (D) | 201 (D) |
| 9/25/2019 | | | 390 | 402 (D) | | | 359 (DT1) | 368 (DT1) | | |

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Chloride (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

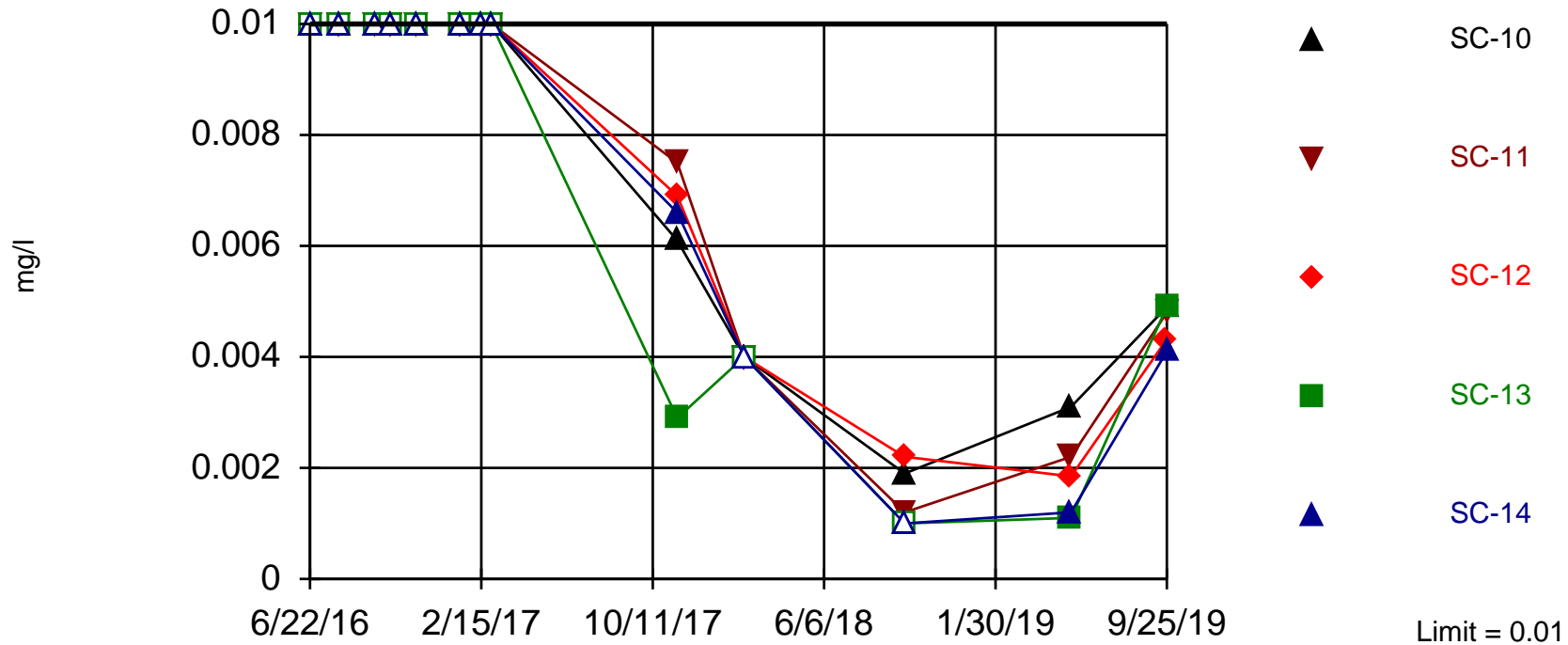
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | SC-14 | CC-1 | FC-2 | FC-3A | FC-3B |
|------------|-----------|-----------|-----------|-----------|-----------|----------|----------|---------|-----------|----------|
| 6/22/2016 | 772 (D) | 168 (D) | 284 (D) | 1100 (D) | 638 (D) | 170 (D) | 1535 (D) | 132 (D) | | |
| 6/23/2016 | | | | | | | | | 92.5 (D) | |
| 6/27/2016 | | | | | | | | | | 319 (D) |
| 8/2/2016 | 761.5 (D) | | | | | | 1540 (D) | 128 (D) | 91 (D) | 504 (D) |
| 8/3/2016 | | 160 (D) | 296 (D) | 1100 (D) | 633.5 (D) | 171 (D) | | | | |
| 9/19/2016 | 760 (D) | | | | | | 1530 (D) | 130 (D) | 96.3 (D) | 594 (D) |
| 9/20/2016 | | 150 (D) | 317 (D) | 1145 (D) | 688 (D) | 171 (D) | | | | |
| 10/12/2016 | 750 (D) | | | | | | 1500 (D) | 124 (D) | 99.55 (D) | 687 (D) |
| 10/13/2016 | | 154 (D) | 308.5 (D) | 1120 (D) | 649 (D) | 81.2 (D) | | | | |
| 11/15/2016 | 71.2 (D) | | | | | | 1550 (D) | 127 (D) | 101.5 (D) | 676 (D) |
| 11/16/2016 | | 163 (D) | 326 (D) | 1140 (D) | 675 (D) | 170 (D) | | | | |
| 1/18/2017 | 741 (D) | | | | | | 1680 (D) | 125 (D) | 104 (D) | 631 (D) |
| 1/19/2017 | | 162 (D) | 324 (D) | 1140 (D) | 672 (D) | 162 (D) | | | | |
| 2/14/2017 | 738 (D) | | | | | | 1515 (D) | 123 (D) | 107 (D) | 732 (D) |
| 2/15/2017 | | 165 (D) | 320 (D) | 1140 (D) | 697.5 (D) | 160 (D) | | | | |
| 2/28/2017 | 769 (D) | | | | | | 1560 (D) | 122 (D) | 107 (D) | 818 (D) |
| 3/1/2017 | | 0.163 (D) | 312.5 (D) | 1130 (D) | 691 (D) | 76.5 (D) | | | | |
| 2/14/2018 | 756 (D) | | | | | | 1530 (D) | 124 (D) | 115.5 (D) | 652 (D) |
| 2/15/2018 | | 158 (DT) | 325 (TD) | 1110 (DT) | | 167 (DT) | | | | |
| 9/25/2018 | 783.5 (D) | | | | | | 1520 (D) | 118 (D) | 122 (D) | 1210 (D) |
| 9/26/2018 | | 177 (D) | 323 (D) | 1120 (D) | 790 (D) | 178 (D) | | | | |
| 5/14/2019 | 782 (D) | | | | | | 1540 (D) | 113 (D) | 124 (D) | 199 (D) |
| 5/15/2019 | | 172 (D) | 292 (D) | 1070 (D) | 839 (D) | 185 (D) | | | | |
| 9/24/2019 | 811 (D) | | 316 (D) | | | | 1580 (D) | 116 (D) | 127 (D) | 220 (D) |
| 9/25/2019 | | 180 (D) | | 1090 (D) | | 190 (D) | | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 69.23% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Chromium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

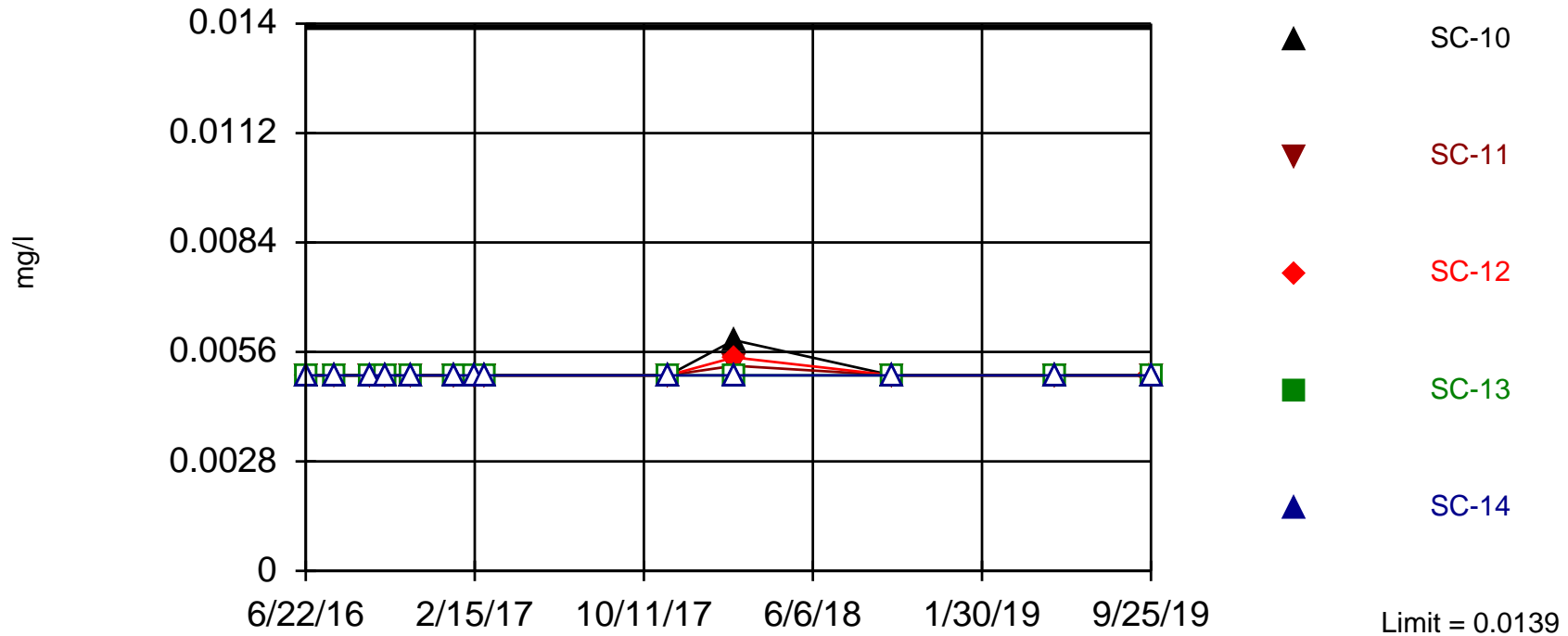
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|
| 6/22/2016 | <0.01 | <0.01 (D) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | | |
| 6/23/2016 | | | | | | | | | <0.01 | |
| 6/27/2016 | | | | | | | | | | <0.01 |
| 8/2/2016 | <0.01 (D) | <0.01 | | | | | <0.01 | | <0.01 | <0.01 |
| 8/3/2016 | | | <0.01 | <0.01 | <0.01 (D) | <0.01 | | <0.01 | | |
| 9/19/2016 | <0.01 | <0.01 | | | | | <0.01 (D) | | <0.01 | <0.01 |
| 9/20/2016 | | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 (D) | | |
| 10/12/2016 | <0.01 | <0.01 | | | | | <0.01 | | <0.01 (D) | <0.01 |
| 10/13/2016 | | | <0.01 | <0.01 | <0.01 | <0.01 (D) | | <0.01 | | |
| 11/15/2016 | <0.01 | <0.01 | | | | | <0.01 | | <0.01 (D) | <0.01 |
| 11/16/2016 | | | <0.01 | <0.01 (D) | <0.01 | <0.01 | | <0.01 | | |
| 1/18/2017 | <0.01 | <0.01 (D) | | | | | <0.01 | | <0.01 | <0.01 |
| 1/19/2017 | | | <0.01 | <0.01 | <0.01 | <0.01 | | <0.01 | | |
| 2/14/2017 | <0.01 | <0.01 (D) | | | | | <0.01 | | <0.01 | <0.01 |
| 2/15/2017 | | | <0.01 | <0.01 | <0.01 (D) | <0.01 | | <0.01 | | |
| 2/28/2017 | <0.01 (D) | <0.01 | | | | | <0.01 | | <0.01 | <0.01 |
| 3/1/2017 | | | <0.01 | <0.01 | <0.01 | <0.01 (D) | | <0.01 | | |
| 11/13/2017 | 0.006 (D) | 0.0064 (D) | | | | | 0.0051 (D) | | 0.0062 (D) | 0.0086 (D) |
| 11/14/2017 | | | 0.0066 (D) | 0.0029 (D) | 0.0061 (D) | 0.0069 (D) | | 0.0075 (D) | | |
| 2/14/2018 | <0.004 | <0.004 | | | | | <0.004 | | <0.004 (D) | 0.0058 |
| 2/15/2018 | | | <0.004 | <0.004 | <0.004 | <0.004 | | <0.004 | | |
| 9/25/2018 | 0.001 (D) | 0.0017 | | | | | 0.001 | | 0.0025 | 0.0061 |
| 9/26/2018 | | | <0.001 | <0.001 (D) | 0.0019 | 0.0022 | | 0.0012 | | |
| 5/14/2019 | 0.0013 | 0.0018 (D) | | | | | <0.001 (D) | | 0.0031 (D) | 0.0049 (D) |
| 5/15/2019 | | | 0.0012 (D) | 0.0011 (D) | 0.0031 (D) | 0.00185 (D) | | 0.0022 (D) | | |
| 9/24/2019 | 0.0042 (D) | 0.0036 (D) | | | | 0.0043 (D) | 0.0035 (D) | | 0.0054 (D) | 0.0089 (D) |
| 9/25/2019 | | | 0.0041 (D) | 0.0049 (D) | 0.0049 (D) | | | 0.0048 (D) | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 84.13% NDs. Annual per-constituent alpha = 0.004816. Individual comparison alpha = 0.0004826 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Cobalt, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

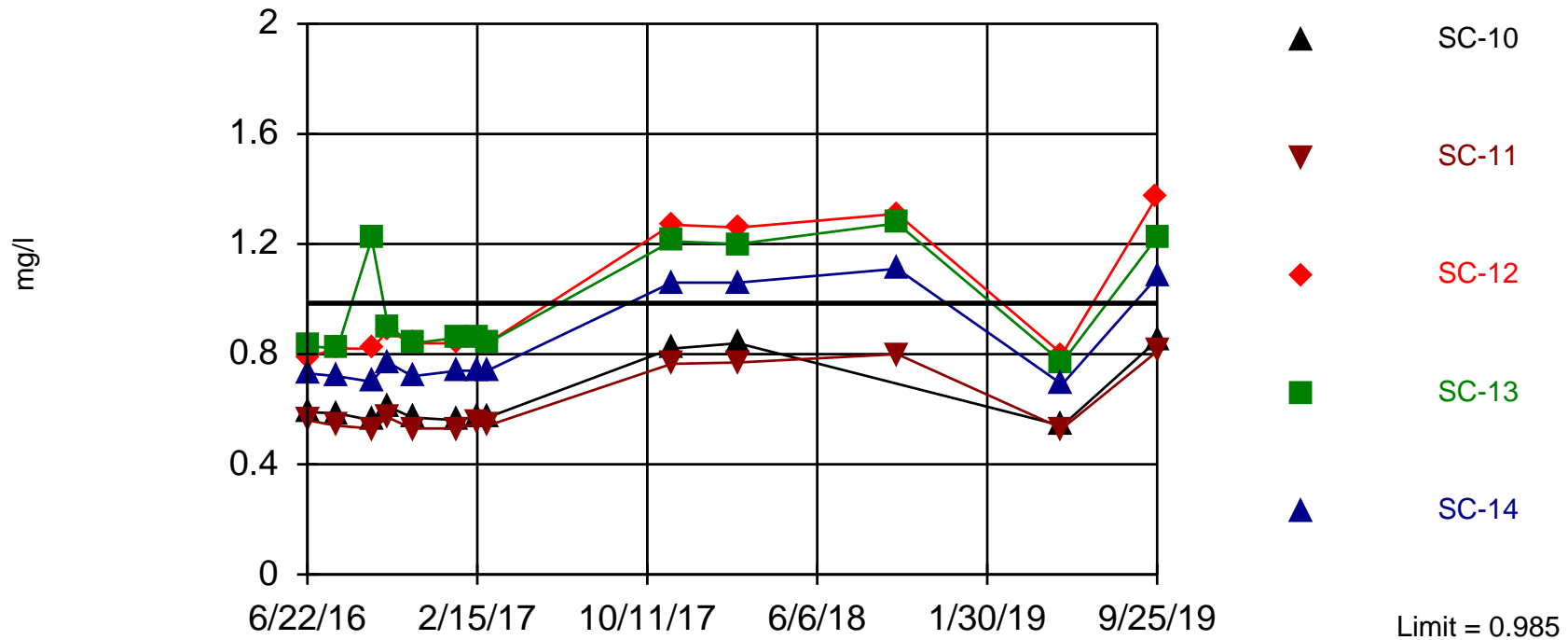
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-14 | SC-13 | SC-12 | SC-11 | CC-1 | FC-2 | SC-10 | FC-3A | FC-3B |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| 6/22/2016 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 (D) | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | 0.0078 |
| 8/2/2016 | <0.005 (D) | | | | | | <0.005 | | <0.005 | 0.005 |
| 8/3/2016 | | <0.005 | <0.005 | <0.005 | 0.005 | | | <0.005 (D) | | |
| 9/19/2016 | <0.005 | | | | | <0.005 | <0.005 (D) | | <0.005 | <0.005 |
| 9/20/2016 | | <0.005 | <0.005 | <0.005 | <0.005 (D) | | | | | |
| 10/12/2016 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | <0.005 |
| 10/13/2016 | | <0.005 | <0.005 | <0.005 (D) | <0.005 | | | <0.005 | | |
| 11/15/2016 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | 0.00736 |
| 11/16/2016 | | <0.005 | <0.005 (D) | <0.005 | <0.005 | | | <0.005 | | |
| 1/18/2017 | <0.005 | | | | | <0.005 (D) | <0.005 | | <0.005 | 0.00778 |
| 1/19/2017 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | | |
| 2/14/2017 | <0.005 | | | | | <0.005 (D) | <0.005 | | <0.005 | 0.00796 |
| 2/15/2017 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 (D) | | |
| 2/28/2017 | <0.005 (D) | | | | | <0.005 | <0.005 | | <0.005 | 0.00553 |
| 3/1/2017 | | <0.005 | <0.005 | <0.005 (D) | <0.005 | | | <0.005 | | |
| 11/13/2017 | <0.005 | | | | | <0.005 | <0.005 (D) | | <0.005 | 0.0118 |
| 11/14/2017 | | <0.005 | <0.005 | <0.005 | <0.005 (D) | | | <0.005 | | |
| 2/14/2018 | | | | | | 0.00636 | <0.005 | | <0.005 (D) | 0.0139 |
| 2/15/2018 | | <0.005 | <0.005 | 0.00546 | 0.00525 | | | 0.0059 | | |
| 9/25/2018 | <0.005 (DD1) | | | | | <0.005 (DD1) | <0.005 (DD1) | | <0.005 (DD1) | 0.0108 (D) |
| 9/26/2018 | | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | <0.005 (DD1) | | | <0.005 (DD1) | | |
| 5/14/2019 | <0.005 | | | | | <0.005 | <0.005 | | <0.005 (D) | <0.005 |
| 5/15/2019 | | <0.005 | <0.005 | <0.005 | <0.005 | | | <0.005 | | |
| 9/24/2019 | <0.005 (D) | | | <0.005 | | <0.005 | <0.005 | | <0.005 | <0.005 |
| 9/25/2019 | | <0.005 | <0.005 (D) | | <0.005 | | | <0.005 | | |

Exceeds Limit: SC-12, SC-13, SC-14

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Fluoride, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

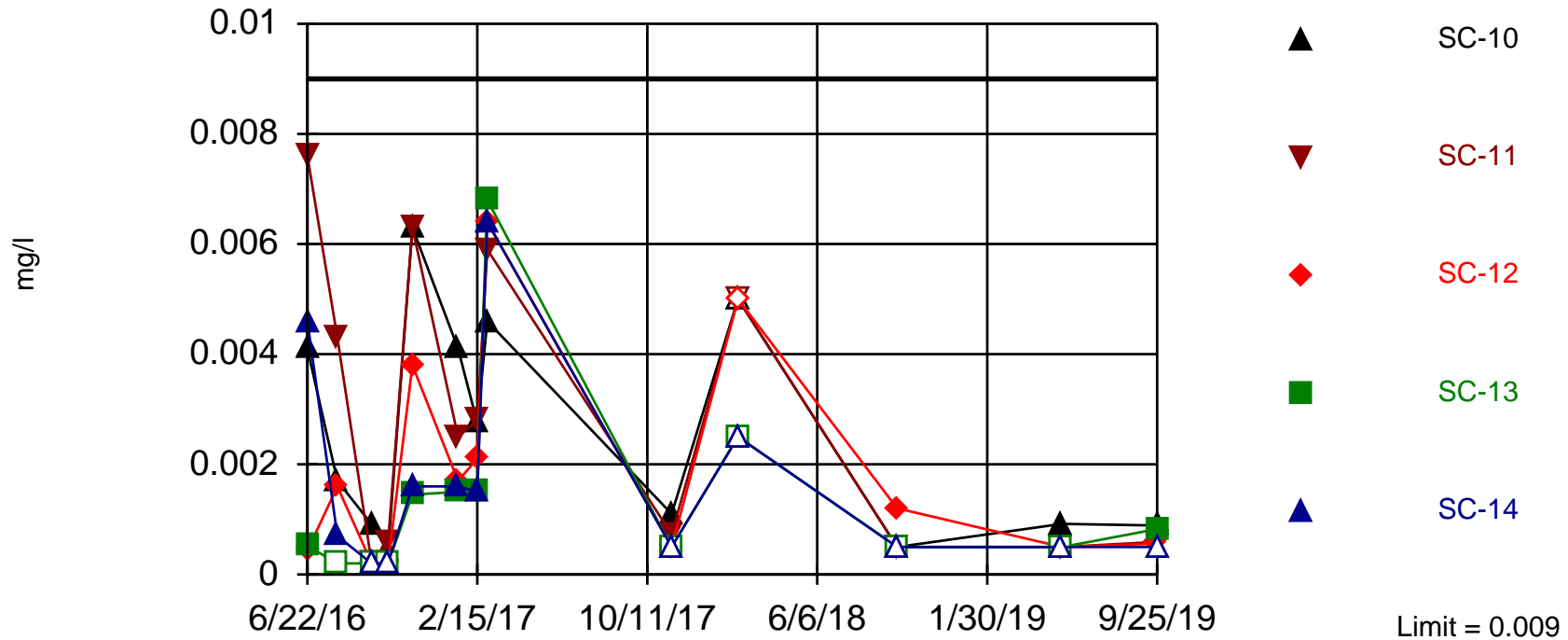
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-14 | SC-10 | CC-1 | FC-2 | FC-3A | FC-3B |
|------------|--------------|-----------|------------|-----------|----------|------------|------------|-----------|------------|-------------|
| 6/22/2016 | 0.12 (T) | 0.83 (T) | 0.79 (T) | 0.56 (T) | 0.73 (T) | 0.59 (T) | 0.215 (TD) | 0.51 (T) | | |
| 6/23/2016 | | | | | | | | | 0.46 (T) | |
| 6/27/2016 | | | | | | | | | | 0.55 |
| 8/2/2016 | 0.06006 (TD) | | | | | | 0.21 (T) | 0.5 (T) | 0.46 (T) | 0.00048 (T) |
| 8/3/2016 | | 0.82 (T) | 0.82 (T) | 0.54 (T) | 0.72 (T) | 0.585 (TD) | | | | |
| 9/19/2016 | 0.13 | | | | | | 0.22 | 0.985 (D) | 0.48 | 0.48 |
| 9/20/2016 | | 1.22 (D) | 0.82 | 0.53 (D) | 0.7 | 0.56 | | | | |
| 10/12/2016 | 0.12 (T) | | | | | | 0.21 (T) | 0.52 (T) | 0.465 (TD) | 0.51 (T) |
| 10/13/2016 | | 0.9 (T) | 0.885 (TD) | 0.57 (T) | 0.77 (T) | 0.61 (T) | | | | |
| 11/15/2016 | 0.12 (T) | | | | | | 0.2 (T) | 0.51 (T) | 0.46 (TD) | 0.46 (T) |
| 11/16/2016 | | 0.84 (D) | 0.84 (T) | 0.53 (T) | 0.72 (T) | 0.57 (T) | | | | |
| 1/18/2017 | 0.13 (T) | | | | | | 0.2 (TD) | 0.52 (T) | 0.46 (T) | 0.56 (T) |
| 1/19/2017 | | 0.86 (T) | 0.84 (T) | 0.53 (T) | 0.74 (T) | 0.56 (T) | | | | |
| 2/14/2017 | 0.13 (T) | | | | | | 0.22 (TD) | 0.55 (T) | 0.48 (T) | 0.51 (T) |
| 2/15/2017 | | 0.86 (T) | | 0.55 (T) | 0.74 (T) | 0.575 (TD) | | | | |
| 2/28/2017 | 0.13 (TD) | | | | | | 0.22 (T) | 0.53 (T) | 0.47 (T) | 0.42 (T) |
| 3/1/2017 | | 0.84 (T) | 0.84 (TD) | 0.54 (T) | 0.74 (T) | 0.57 (T) | | | | |
| 11/13/2017 | 0.2 | | | | | | 0.45 | 0.7 (D) | 0.56 | 0.48 |
| 11/14/2017 | | 1.21 | 1.27 | 0.765 (D) | 1.06 | 0.82 | | | | |
| 2/14/2018 | 0.21 | | | | | | 0.5 | 0.74 | 0.615 (D) | 0.53 |
| 2/15/2018 | | 1.2 | 1.26 | 0.77 | 1.06 | 0.84 | | | | |
| 9/25/2018 | 0.195 (D) | | | | | | 0.48 | 0.73 | 0.62 | 0.52 |
| 9/26/2018 | | 1.275 (D) | 1.31 | 0.8 | 1.11 | | | | | |
| 5/14/2019 | 0.13 | | | | | | 0.2 | 0.51 | 0.44 (D) | 0.69 |
| 5/15/2019 | | 0.77 | 0.8 (D) | 0.53 | 0.69 | 0.54 | | | | |
| 9/24/2019 | 0.195 (D) | | 1.37 | | | | 0.53 | 0.72 | 0.59 | 0.72 |
| 9/25/2019 | | 1.225 (D) | | 0.81 | 1.08 | 0.85 | | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 46.15% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Constituent: Lead, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Lead, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

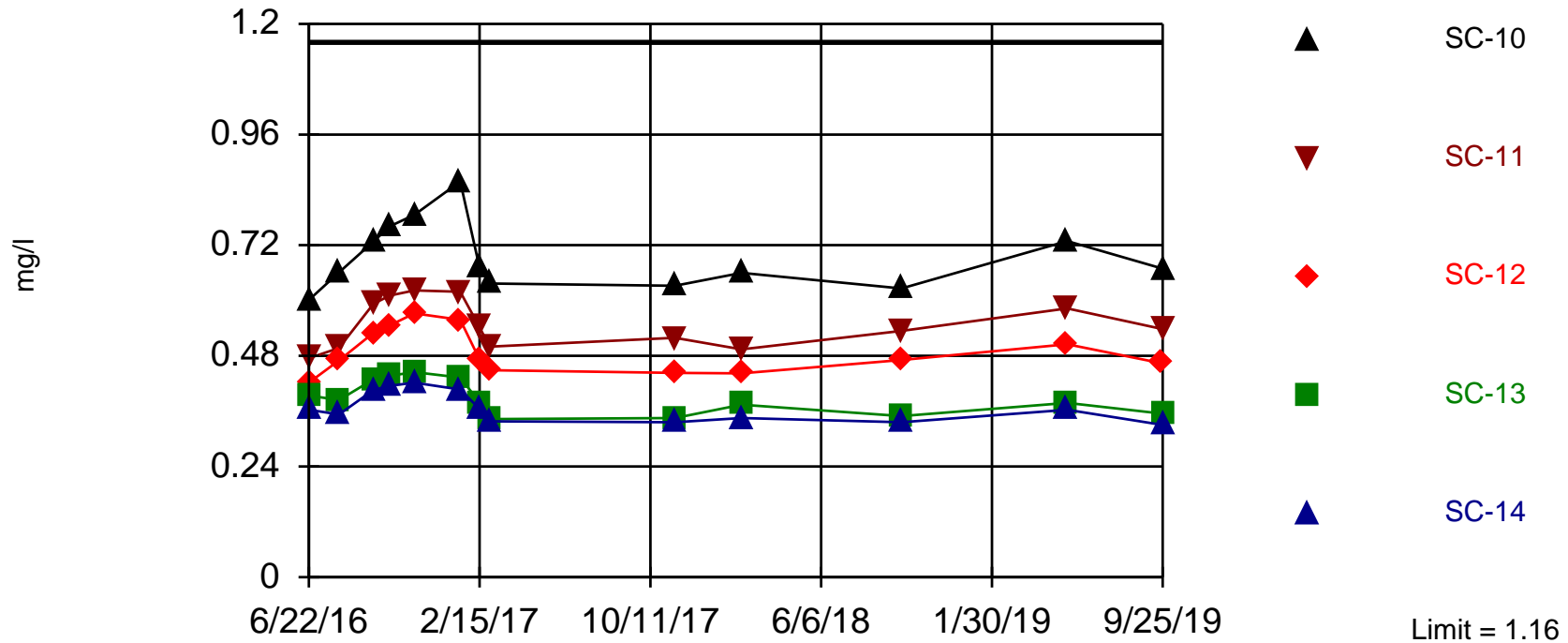
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|
| 6/22/2016 | <0.0002 | <0.0002 (D) | 0.0046 | 0.00052 | 0.0041 | 0.00043 | 0.0002 | 0.0076 | | |
| 6/23/2016 | | | | | | | | | 0.0052 | |
| 6/27/2016 | | | | | | | | | | 0.0039 |
| 8/2/2016 | <0.0002 (D) | <0.0002 | | | | | <0.0002 | | 0.0015 | 0.0021 |
| 8/3/2016 | | | 0.0007 | <0.0002 | 0.0017 (D) | 0.0016 | | 0.0043 | | |
| 9/19/2016 | 0.00032 (D) | <0.0002 (D1) | | | | | <0.0002 (D1) | | 0.001 (D) | 0.00042 (D) |
| 9/20/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00091 (D) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | 0.000835 (D) | <0.0002 (D1) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | 0.00044 (D) | <0.0002 (D) | | 0.0006 (D) | | |
| 11/15/2016 | 0.0037 (D) | 0.0052 (D) | | | | | <0.0002 (D1) | | 0.0031 (D) | 0.0065 (D) |
| 11/16/2016 | | | 0.0016 (D) | 0.00145 (D) | 0.0063 (D) | 0.0038 (D) | | 0.0063 (D) | | |
| 1/18/2017 | <0.0005 (D1) | 0.0035 (D) | | | | | <0.0005 (D1) | | 0.0035 (D) | 0.0035 (D) |
| 1/19/2017 | | | 0.0016 (D) | 0.0015 (D) | 0.0041 (D) | 0.0017 (D) | | 0.0025 (D) | | |
| 2/14/2017 | 0.0027 (D) | 0.0028 (D) | | | | | 0.0018 (D) | | 0.0017 (D) | 0.00099 (D) |
| 2/15/2017 | | | 0.0015 (D) | 0.0015 (D) | 0.00275 (D) | 0.0021 (D) | | 0.0028 (D) | | |
| 2/28/2017 | 0.0081 (D) | 0.0049 (D) | | | | | 0.0089 (D) | | 0.009 | 0.0089 (D) |
| 3/1/2017 | | | 0.0064 (D) | 0.0068 (D) | 0.0046 (D) | 0.0064 (D) | | 0.0059 (D) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | 0.00091 (D) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | <0.0005 (D1) | 0.0011 (D) | <0.0005 (D1) | | 0.00073 (D) | | |
| 2/14/2018 | <0.005 | <0.005 | | | | | <0.0025 | | <0.0025 (D) | <0.0025 |
| 2/15/2018 | | | <0.0025 | <0.0025 | <0.005 | <0.005 | | <0.005 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | 0.00086 | 0.0046 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 (D1) | 0.0012 | | <0.0005 (D1) | | |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | 0.0011 (D1D) | 0.00073 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | 0.00092 (D1D) | <0.0005 (D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | 0.00072 (D) | | | | 0.00056 (D) | 0.0014 (D) | | 0.0018 (D) | 0.0012 (D) |
| 9/25/2019 | | | <0.0005 (D1D) | 0.000825 (D) | 0.00089 (D) | | | 0.00059 (D) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Lithium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

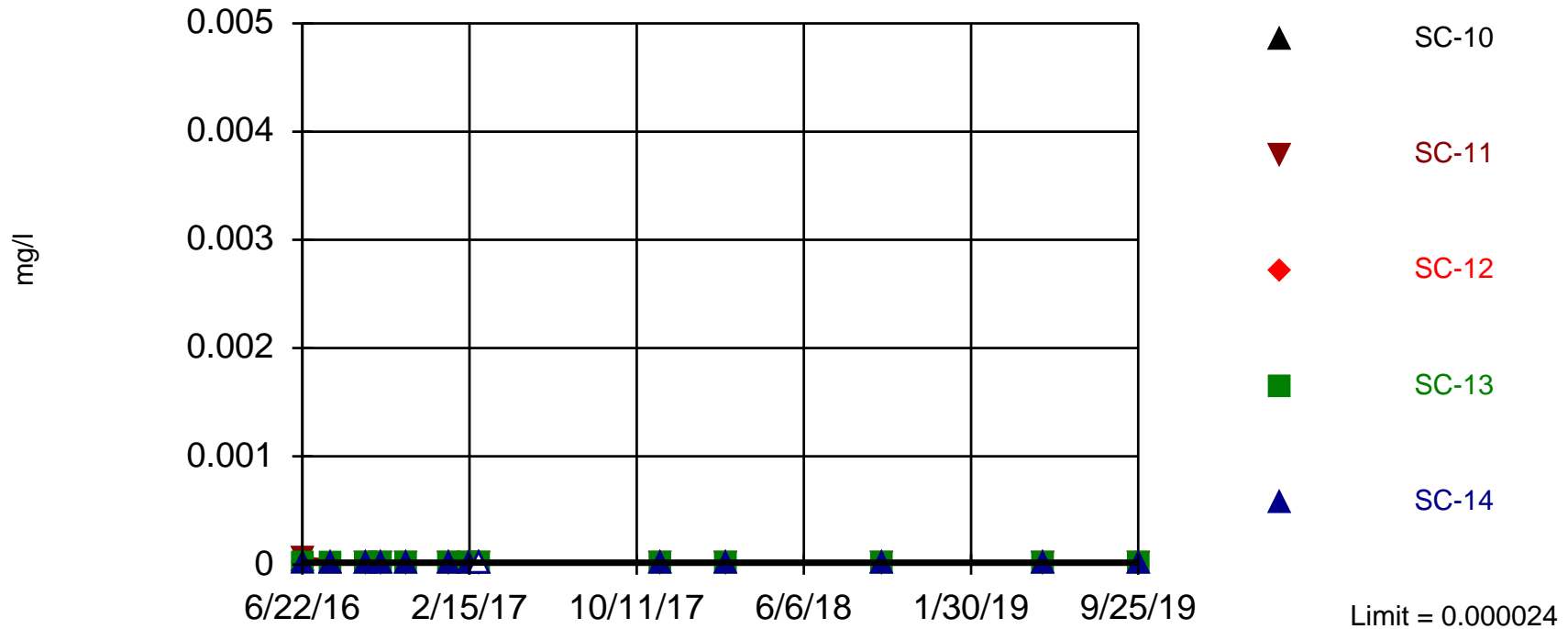
| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|------------|-----------|-----------|------------|-----------|-----------|------------|-----------|------------|-----------|
| 6/22/2016 | 0.904 | 0.671 (D) | 0.363 | 0.394 | 0.601 | 0.422 | 0.269 | 0.475 | | |
| 6/23/2016 | | | | | | | | | 0.303 | |
| 6/27/2016 | | | | | | | | | | 0.232 |
| 8/2/2016 | 0.984 (D) | 0.731 | | | | | 0.305 | | 0.311 | 0.274 |
| 8/3/2016 | | | 0.353 | 0.384 | 0.661 (D) | 0.47 | | 0.497 | | |
| 9/19/2016 | 1.01 | 0.779 | | | | | 0.306 (D) | | 0.343 | 0.295 |
| 9/20/2016 | | | 0.406 | 0.429 | 0.728 | 0.53 | | 0.593 (D) | | |
| 10/12/2016 | 1.03 | 0.825 | | | | | 0.307 | | 0.3455 (D) | 0.315 |
| 10/13/2016 | | | 0.415 | 0.437 | 0.761 | 0.546 (D) | | 0.611 | | |
| 11/15/2016 | 1.16 | 0.822 | | | | | 0.325 (T) | | 0.3375 (D) | 0.344 |
| 11/16/2016 | | | 0.422 | 0.4445 (D) | 0.786 | 0.572 | | 0.622 | | |
| 1/18/2017 | 1.08 | 0.791 (D) | | | | | 0.318 | | 0.343 (D) | 0.335 |
| 1/19/2017 | | | 0.407 (D) | 0.433 (D) | 0.858 (D) | 0.558 (D) | | 0.619 (D) | | |
| 2/14/2017 | 1 | 0.73 (D) | | | | | 0.298 | | 0.312 | 0.334 |
| 2/15/2017 | | | 0.365 | 0.379 | 0.671 (D) | 0.472 | | 0.542 | | |
| 2/28/2017 | 0.9125 (D) | 0.641 | | | | | 0.275 (D) | | 0.283 (D) | 0.326 (D) |
| 3/1/2017 | | | 0.338 (D) | 0.343 (D) | 0.637 (D) | 0.449 (D) | | 0.5 (D) | | |
| 11/13/2017 | 0.894 | 0.63 | | | | | 0.2665 (D) | | 0.288 | 0.31 |
| 11/14/2017 | | | 0.336 | 0.345 | 0.632 | 0.443 | | 0.519 (D) | | |
| 2/14/2018 | 0.9 (D) | 0.576 (D) | | | | | 0.265 (D) | | 0.2635 (D) | 0.341 (D) |
| 2/15/2018 | | | 0.345 (D) | 0.374 (D) | 0.66 (D) | 0.442 (D) | | 0.494 (D) | | |
| 9/25/2018 | 0.9085 (D) | 0.664 (D) | | | | | 0.276 (D) | | 0.302 (D) | 0.316 (D) |
| 9/26/2018 | | | 0.336 (D) | 0.3495 (D) | 0.626 (D) | 0.471 (D) | | 0.534 (D) | | |
| 5/14/2019 | 1.13 | 0.798 | | | | | 0.294 | | 0.3265 (D) | 0.321 |
| 5/15/2019 | | | 0.363 | 0.378 | 0.729 | 0.505 (D) | | 0.583 | | |
| 9/24/2019 | 0.9695 (D) | 0.722 (D) | | | | | 0.464 (D) | | 0.303 (D) | 0.284 (D) |
| 9/25/2019 | | | 0.33 (D) | 0.3545 (D) | 0.669 (D) | | | 0.538 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 64 background values. Annual per-constituent alpha = 0.004681. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 5 points to limit.

Constituent: Mercury, Total Analysis Run 1/13/2020 11:00 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Mercury, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

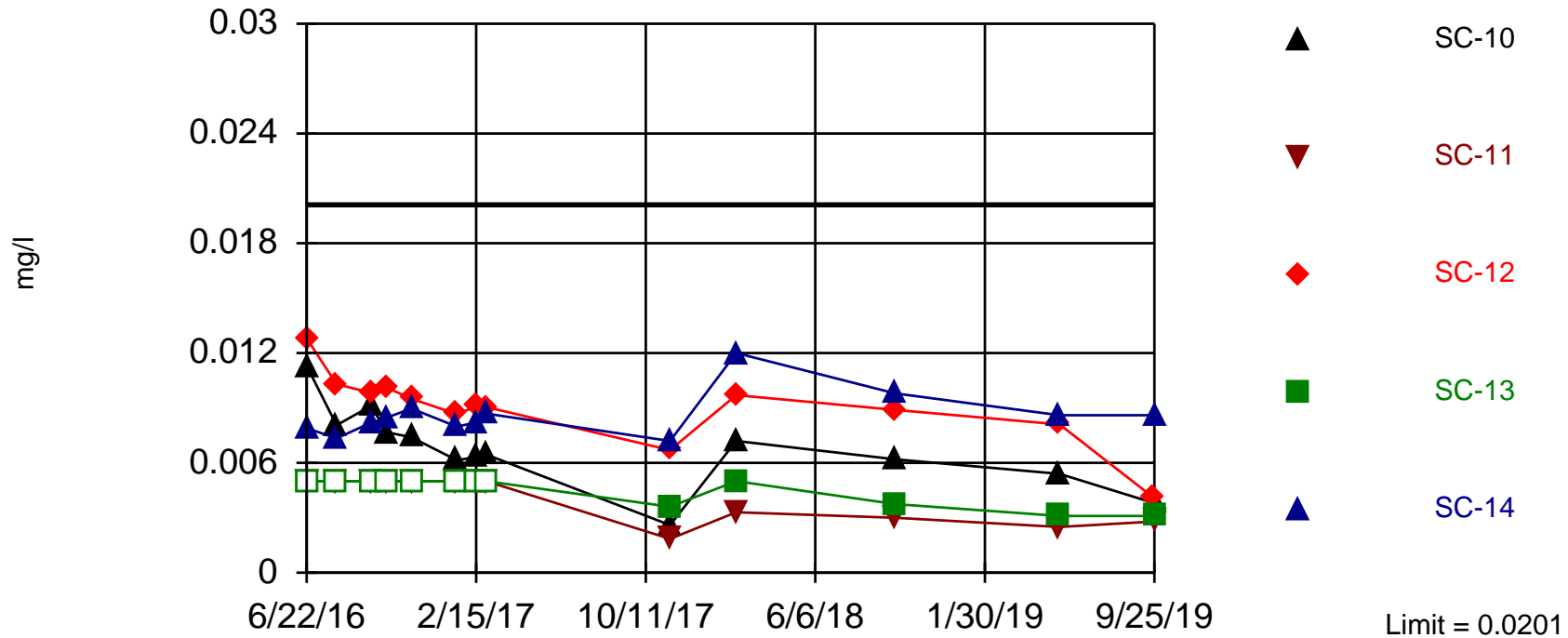
| | FC-1 | CC-1 | SC-10 | SC-11 | SC-12 | SC-13 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-------------|-------------|--------------|-------------|-----------|-----------|--------------|---------|-------------|-----------|
| 6/22/2016 | 1.3E-06 | 4.7E-06 (D) | 3.6E-05 | 6.7E-05 | 4.5E-06 | 3.6E-06 | 2.8E-06 | 1.2E-05 | | |
| 6/23/2016 | | | | | | | | | 5.4E-06 | |
| 6/27/2016 | | | | | | | | | | 1.3E-05 |
| 8/2/2016 | 2E-06 (D) | 6E-06 | | | | | 4E-06 | | 7E-06 | 6E-06 |
| 8/3/2016 | | | 1.05E-05 (D) | | 6E-06 | 2E-06 | | 3E-06 | | |
| 9/19/2016 | 2E-06 | 6E-06 | | | | | 3E-06 (D) | | 4E-06 | 3E-06 |
| 9/20/2016 | | | 1.6E-05 | 9.5E-06 (D) | 5E-06 | 3E-06 | | 3E-06 | | |
| 10/12/2016 | 2E-06 | 6E-06 | | | | | | | 5E-06 (D) | 3E-06 |
| 10/13/2016 | | | 1E-05 | 1E-05 | 3E-06 (D) | 2E-06 | | 2E-06 | | |
| 11/15/2016 | 2E-06 | 6E-06 | | | | | 4E-06 | | 2E-06 (D) | 9E-06 |
| 11/16/2016 | | | 1E-05 | 1E-05 | 4E-06 | 2E-06 (D) | | 2E-06 | | |
| 1/18/2017 | 2E-06 | 7.5E-06 (D) | | | | | 5E-06 | | 2E-06 | 8E-06 |
| 1/19/2017 | | | 1.1E-05 | 1E-05 | 4E-06 | 3E-06 | | 2E-06 | | |
| 2/14/2017 | 2E-06 | 6E-06 (D) | | | | | 4E-06 | | 2E-06 | 4E-06 |
| 2/15/2017 | | | 9E-06 (D) | 8E-06 | 3E-06 | 2E-06 | | 2E-06 | | |
| 2/28/2017 | 2E-06 (D) | 6E-06 | | | | | 4E-06 | | 2E-06 | 5E-06 |
| 3/1/2017 | | | 9E-06 | 9E-06 | 3E-06 (D) | 3E-06 | | <2E-06 | | |
| 11/13/2017 | 2E-06 (T) | 6E-06 (T) | | | | | 3.5E-06 (TD) | | 4E-06 (T) | 7E-06 (T) |
| 11/14/2017 | | | 1E-05 | 7.5E-06 (D) | 4E-06 | 2E-06 | | 2E-06 | | |
| 2/14/2018 | 2E-06 | 5E-06 | | | | | 3E-06 | | 2E-06 (D) | 5E-06 |
| 2/15/2018 | | | 1.1E-05 | 1.3E-05 | 4E-06 | 2E-06 | | 2E-06 | | |
| 9/25/2018 | 2.5E-06 (D) | 5E-06 | | | | | 3E-06 | | 3E-06 | 2.4E-05 |
| 9/26/2018 | | | 9E-06 | 8E-06 | 5E-06 | 2E-06 (D) | | 2E-06 | | |
| 5/14/2019 | 2E-06 | 6E-06 | | | | | 3E-06 | | 7.5E-06 (D) | 3E-06 |
| 5/15/2019 | | | 1E-05 | 9E-06 | 4E-06 (D) | 2E-06 | | 2E-06 | | |
| 9/24/2019 | 2E-06 (D) | 5E-06 | | | 4E-06 | | 5E-06 | | 8E-06 | 5E-06 |
| 9/25/2019 | | | 1E-05 | 9E-06 | | 4E-06 (D) | | 2E-06 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 43.08% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Molybdenum, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

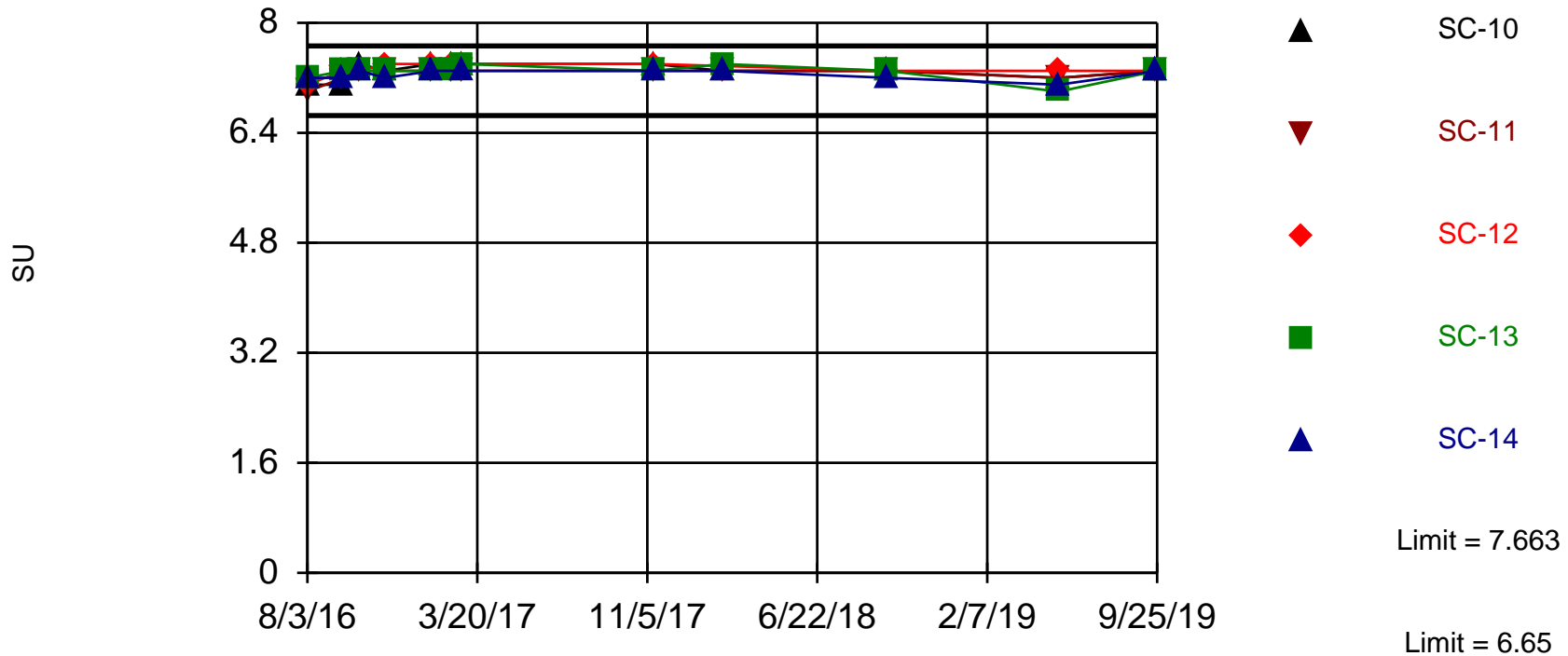
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|-------------|--------------|------------|-------------|--------------|-------------|--------------|-------------|--------------|------------|
| 6/22/2016 | <0.005 | <0.005 (D) | 0.0079 | <0.005 | 0.0113 | 0.0128 | <0.005 | <0.005 | | |
| 6/23/2016 | | | | | | | | | <0.005 | |
| 6/27/2016 | | | | | | | | | | 0.0201 |
| 8/2/2016 | <0.005 (D) | <0.005 | | | | | <0.005 | | 0.00838 | 0.0198 |
| 8/3/2016 | | | 0.00734 | <0.005 | 0.008055 (D) | 0.0103 | | <0.005 | | |
| 9/19/2016 | <0.005 | <0.005 | | | | | <0.005 (D) | | 0.0122 | 0.00609 |
| 9/20/2016 | | | 0.00819 | <0.005 | 0.00911 | 0.00983 | | <0.005 (D) | | |
| 10/12/2016 | <0.005 | <0.005 | | | | | 0.001252 (D) | | 0.009175 (D) | 0.00525 |
| 10/13/2016 | | | 0.00848 | <0.005 | 0.00767 | 0.0101 (D) | | <0.005 | | |
| 11/15/2016 | <0.005 | <0.005 | | | | | <0.005 | | 0.01065 (D) | 0.0117 |
| 11/16/2016 | | | 0.00897 | <0.005 (D) | 0.0074 | 0.00951 | | <0.005 | | |
| 1/18/2017 | <0.005 | <0.005 (D) | | | | | <0.005 | | 0.00969 | <0.005 |
| 1/19/2017 | | | 0.00798 | <0.005 | 0.00614 | 0.00866 | | <0.005 | | |
| 2/14/2017 | <0.005 | <0.005 (D) | | | | | <0.005 | | 0.0104 | 0.00716 |
| 2/15/2017 | | | 0.00821 | <0.005 | 0.006325 (D) | 0.00909 | | <0.005 | | |
| 2/28/2017 | <0.005 (D) | <0.005 | | | | | <0.005 | | 0.0109 | 0.00842 |
| 3/1/2017 | | | 0.00869 | <0.005 | 0.00646 | 0.00905 (D) | | <0.005 | | |
| 11/13/2017 | 0.0015 (D) | <0.0002 (D1) | | | | | 0.0014 (D) | | 0.005 (D) | 0.0042 (D) |
| 11/14/2017 | | | 0.0072 (D) | 0.0036 (D) | 0.0026 (D) | 0.0067 (D) | | 0.00185 (D) | | |
| 2/14/2018 | <0.01 | <0.01 | | | | | 0.003 | | 0.0112 (D) | 0.0055 |
| 2/15/2018 | | | 0.012 | 0.005 | 0.0072 | 0.0097 | | 0.0033 | | |
| 9/25/2018 | 0.0015 (D) | 0.0006 | | | | | 0.002 | | 0.0086 | 0.0027 |
| 9/26/2018 | | | 0.0098 | 0.00375 (D) | 0.0062 | 0.0089 | | 0.003 | | |
| 5/14/2019 | 0.0018 | 0.00068 (D) | | | | | 0.002 (D) | | 0.0069 (D) | 0.0014 (D) |
| 5/15/2019 | | | 0.0086 (D) | 0.0031 (D) | 0.0054 (D) | 0.0081 (D) | | 0.0025 (D) | | |
| 9/24/2019 | 0.00165 (D) | 0.00067 (D) | | | | 0.0041 (D) | 0.0021 (D) | | 0.0066 (D) | 0.002 (D) |
| 9/25/2019 | | | 0.0086 (D) | 0.0031 (D) | 0.0038 (D) | | | 0.0028 (D) | | |

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=7.157, Std. Dev.=0.236, n=60. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.962, critical = 0.945. Kappa = 2.146 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000229. Comparing 5 points to limit.

Constituent: pH Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

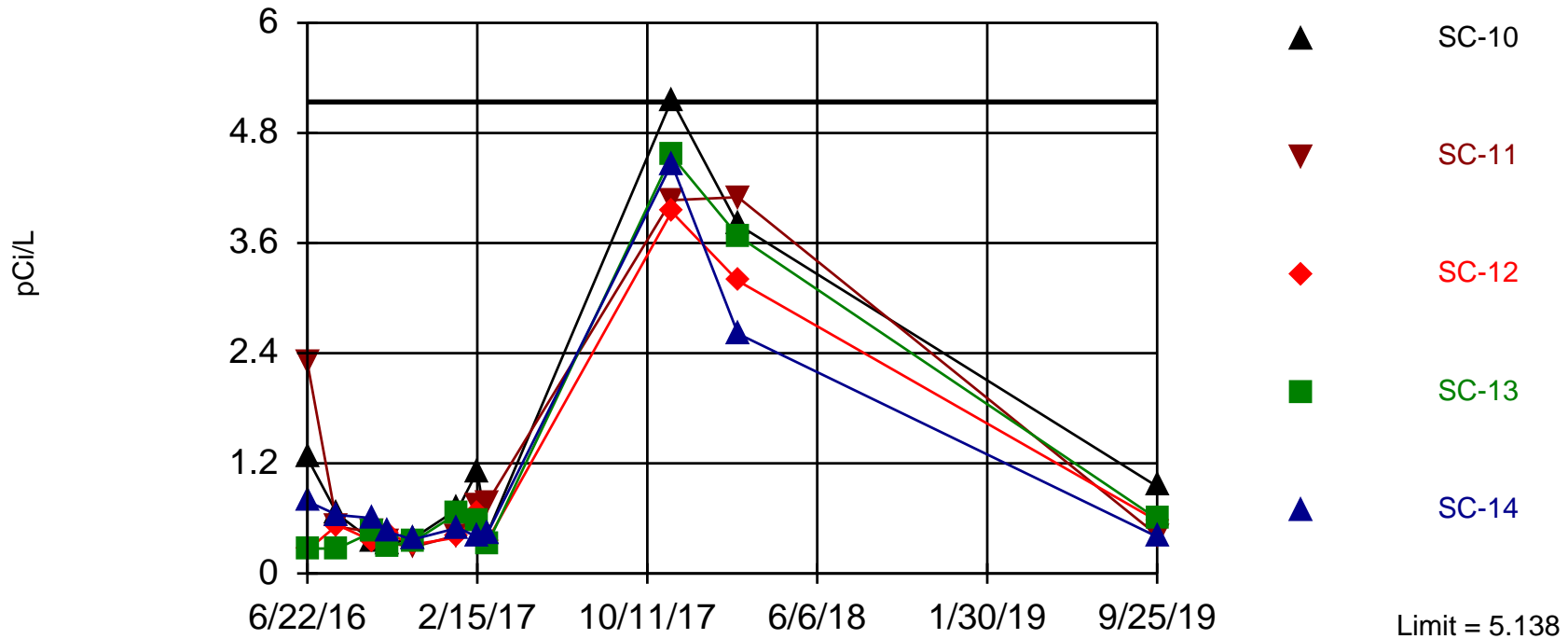
Prediction Limit

Constituent: pH (SU) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | FC-3A | CC-1 | FC-2 | FC-3B | SC-10 | SC-13 | SC-12 | SC-14 | SC-11 |
|------------|-------|-------|------|------|-------|---------|-------|-------|-------|-------|
| 8/2/2016 | 7 (D) | 7.5 | 6.8 | 7.2 | 7.2 | | | | | |
| 8/3/2016 | | | | | | 7.1 (D) | 7.2 | 7.1 | 7.2 | 7 |
| 9/19/2016 | 7.1 | 7.5 | 6.7 | 7.2 | 6.9 | | | | | |
| 9/20/2016 | | | | | | 7.1 | 7.3 | 7.3 | 7.2 | 7.2 |
| 10/12/2016 | 7.1 | 7.5 | 6.9 | 7.2 | 7 | | | | | |
| 10/13/2016 | | | | | | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 |
| 11/15/2016 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 11/16/2016 | | | | | | 7.3 | 7.3 | 7.4 | 7.2 | 7.3 |
| 1/18/2017 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 1/19/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2017 | 7.1 | 7.6 | 6.9 | 7.3 | 7 | | | | | |
| 2/15/2017 | | | | | | 7.4 | 7.3 | 7.4 | | 7.3 |
| 2/28/2017 | 7.2 | 7.5 | 6.9 | 7.3 | 7 | | | | | |
| 3/1/2017 | | | | | | 7.4 | 7.4 | 7.4 | 7.3 | 7.3 |
| 11/13/2017 | 7.2 | 7.6 | 7 | 7.3 | 7 | | | | | |
| 11/14/2017 | | | | | | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 |
| 2/14/2018 | 7.1 | 7.6 | 6.9 | 7.3 | 6.8 | | | | | |
| 2/15/2018 | | | | | | 7.3 | 7.4 | | 7.3 | 7.3 |
| 9/25/2018 | 7 | 7.3 | 6.8 | 7.3 | 7.1 | | | | | |
| 9/26/2018 | | | | | | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 |
| 5/14/2019 | 7.1 | 7.5 | 6.8 | 7.2 | 7.2 | | | | | |
| 5/15/2019 | | | | | | 7.2 | 7 | 7.3 | 7.1 | 7.2 |
| 9/24/2019 | 7.1 | 7.4 | 7 | 7.3 | 7.1 | | | 7.3 | | |
| 9/25/2019 | | | | | | 7.3 | 7.3 | | 7.3 | 7.3 |

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.081, Std. Dev.=0.2992, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9464, critical = 0.94. Kappa = 2.156 (c=23, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.002288. Individual comparison alpha = 0.000458. Comparing 5 points to limit.

Constituent: Rad 226+228 Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: Rad 226+228 (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

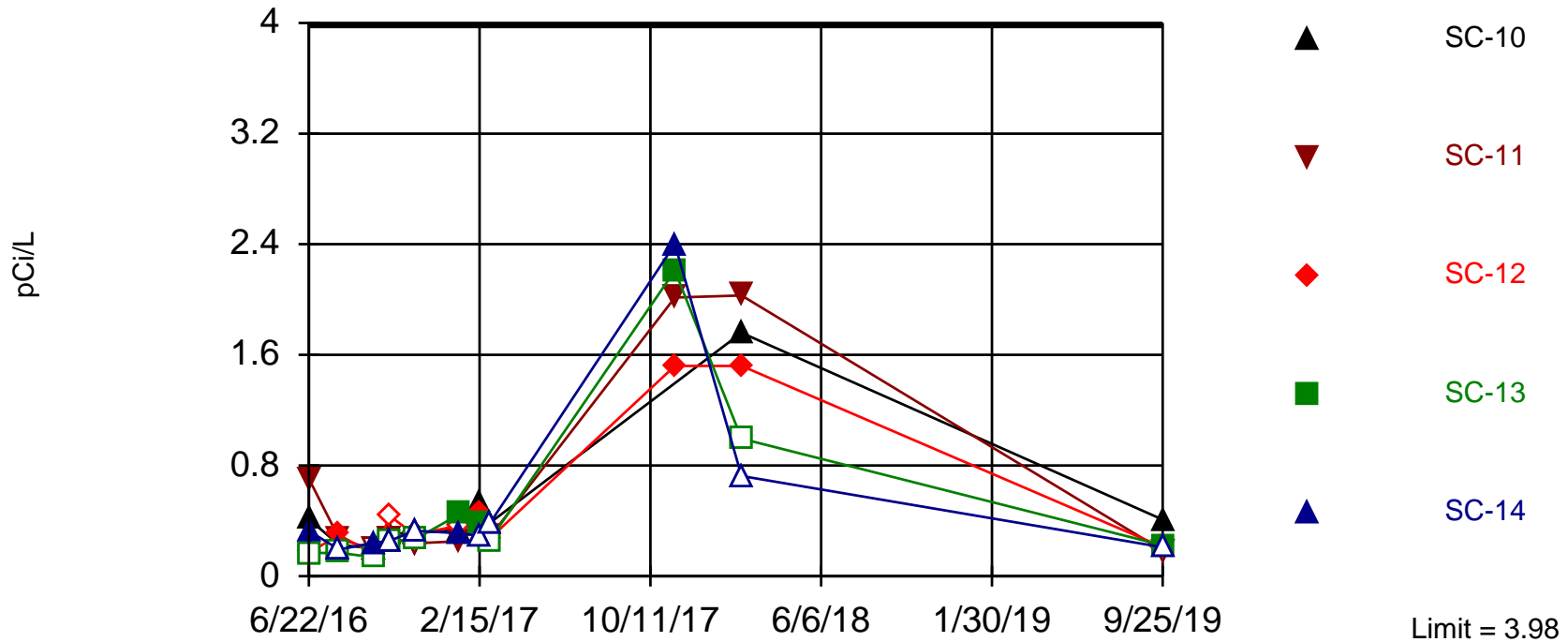
| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|----------|-----------|------------|------------|--------|-------------|--------|--------|-------------|--------|
| 6/22/2016 | 1.475 | 0.2705 | 0.253 | 2.295 | 1.257 | 1.317 (D) | 0.3375 | 0.786 | | |
| 6/23/2016 | | | | | | | | | 1.321 | |
| 6/27/2016 | | | | | | | | | | 1.111 |
| 8/2/2016 | 1.38 | | | | | 0.412 | 0.295 | | 0.3135 | 1.7775 |
| 8/3/2016 | | 0.2735 | 0.528 | 0.508 | 0.646 | | | 0.6375 | | |
| 9/19/2016 | 2.136 | | | | | 0.6405 | 0.363 | | 0.3795 | 0.496 |
| 9/20/2016 | | 0.448 | 0.3585 | 0.4555 | 0.361 | | | 0.603 | | |
| 10/12/2016 | 1.913 | | | | | 1.404 | 0.3475 | | 0.616 | 0.4955 |
| 10/13/2016 | | 0.305 | 0.437 | 0.3365 | 0.324 | | | 0.4535 | | |
| 11/15/2016 | 2.128 | | | | | 1.354 | 0.854 | | 0.395 | 0.6865 |
| 11/16/2016 | | 0.341 | 0.3135 | 0.286 | 0.3775 | | | 0.3695 | | |
| 1/18/2017 | 1.874 | | | | | 1.494 (D) | 0.471 | | 0.617 | 0.6095 |
| 1/19/2017 | | 0.661 | 0.393 | 0.4185 | 0.704 | | | 0.497 | | |
| 2/14/2017 | 2.31 (D) | | | | | 1.841 | 0.7225 | | 2.636 | 1.366 |
| 2/15/2017 | | 0.581 | 0.6565 | 0.751 | 1.114 | | | 0.3975 | | |
| 2/28/2017 | 1.628 | | | | | 1.59325 (D) | 0.446 | | 1.8245 | 0.414 |
| 3/1/2017 | | 0.318 | 0.355 | 0.7725 | 0.432 | | | 0.4345 | | |
| 11/13/2017 | 6.445 | | | | | 5.16 | 4.255 | | 3.575 | 2.225 |
| 11/14/2017 | | 4.55 | 3.94 | 4.0675 (D) | 5.16 | | | 4.465 | | |
| 2/14/2018 | 5.23 | | | | | 3.22 | 2.1715 | | 2.23025 (D) | 2.79 |
| 2/15/2018 | | 3.677 | 3.1875 (D) | 4.1 | 3.8 | | | 2.612 | | |
| 9/24/2019 | 1.628 | | | | | 1.444 | 0.4605 | | 0.548 | 0.69 |
| 9/25/2019 | | 0.596 (D) | 0.5735 | 0.418 | 0.949 | | | 0.4 | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 56 background values. 53.57% NDs. Annual per-constituent alpha = 0.006093. Individual comparison alpha = 0.0006109 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Radium 226, Total (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

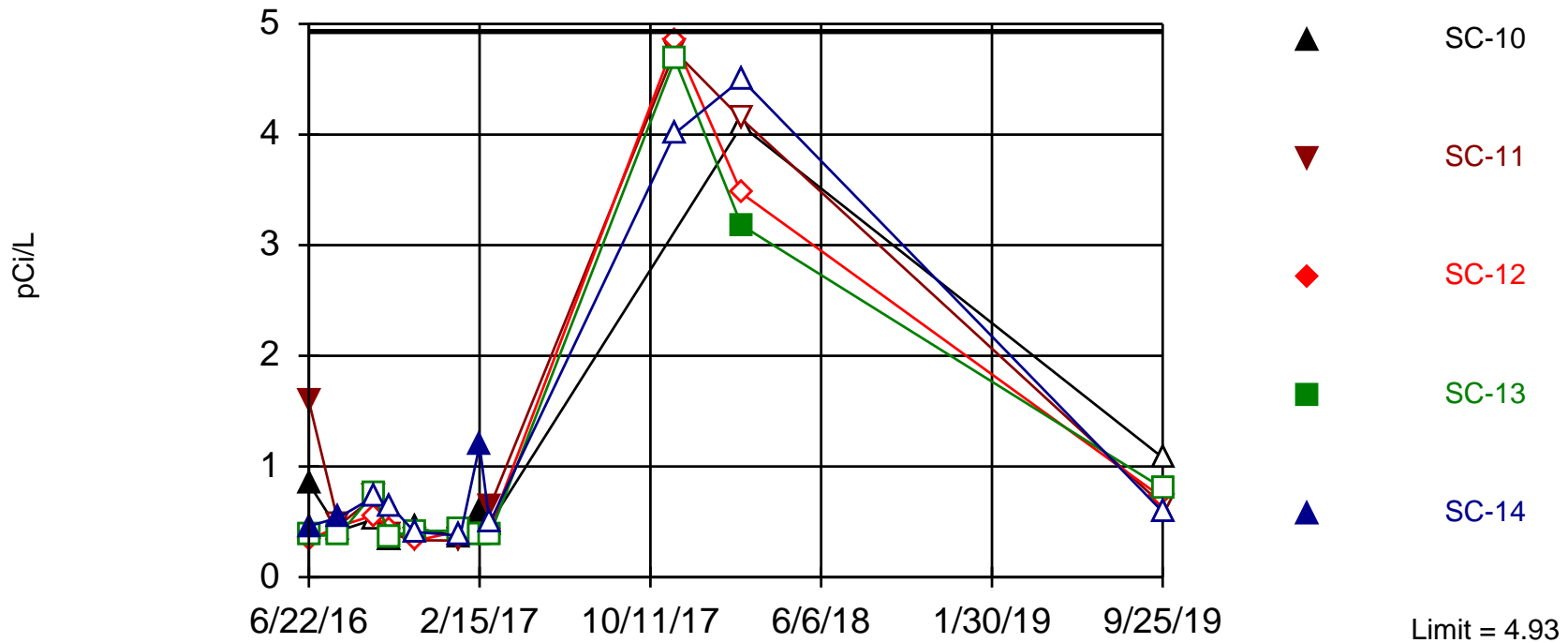
| | FC-1 | CC-1 | SC-10 | SC-11 | FC-2 | SC-13 | SC-14 | SC-12 | FC-3A | FC-3B |
|------------|-------------|------------|-----------|-----------|--------|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 0.295 (J) | 0.413 (JD) | 0.412 (J) | 0.705 (J) | <0.184 | <0.167 | 0.327 (J) | <0.169 | | |
| 6/23/2016 | | | | | | | | | 0.368 (J) | |
| 6/27/2016 | | | | | | | | | | 0.486 (J) |
| 8/2/2016 | 0.69 (D) | 0.333 (D) | | | <0.199 | | | | <0.26 | <0.235 |
| 8/3/2016 | | | 0.227 (J) | 0.274 (J) | | <0.169 | <0.193 | 0.298 (J) | | |
| 9/19/2016 | 0.416 (J) | <0.155 | | | <0.227 | | | | <0.211 | <0.484 |
| 9/20/2016 | | | <0.201 | <0.19 | | <0.137 | 0.241 (J) | <0.159 | | |
| 10/12/2016 | 0.433 (J) | <0.288 | | | <0.325 | | | | <0.368 | 0.283 (J) |
| 10/13/2016 | | | <0.307 | <0.279 | | <0.243 | <0.256 | <0.435 | | |
| 11/15/2016 | 0.588 (J) | <0.38 | | | <0.32 | | | | <0.419 | <0.397 |
| 11/16/2016 | | | <0.312 | <0.238 | | <0.265 | <0.329 | <0.3 | | |
| 1/18/2017 | 0.494 (J) | 0.569 (JD) | | | <0.256 | | | | <0.244 | 0.357 (J) |
| 1/19/2017 | | | 0.333 (J) | 0.253 (J) | | 0.451 (J) | 0.31 (J) | <0.368 | | |
| 2/14/2017 | 0.725 (JD) | 0.631 (J) | | | <0.425 | | | | <0.38 | |
| 2/15/2017 | | | 0.529 (J) | 0.369 (J) | | 0.388 (J) | <0.291 | 0.459 (J) | | |
| 2/28/2017 | 0.348 (J) | <0.343 (D) | | | <0.42 | | | | <0.307 | <0.389 |
| 3/1/2017 | | | <0.384 | <0.281 | | <0.258 | <0.379 | <0.271 | | |
| 11/13/2017 | 3.98 | 2.9 | | | 2.41 | | | | 1.87 | <0.57 |
| 11/14/2017 | | | | 2.015 (D) | | 2.21 | 2.4 | 1.52 | | |
| 2/14/2018 | 3 (J) | 1.48 (J) | | | <0.743 | | | | <0.772 (D) | <1.23 |
| 2/15/2018 | | | 1.76 | 2.03 (J) | | <0.994 | <0.724 | 1.52 (J) | | |
| 5/14/2019 | | | | | | | | | <0.1 (D) | <0.088 |
| 9/24/2019 | 0.5655 (JD) | 0.364 | | | <0.182 | | | 0.213 (J) | 0.209 (J) | 0.359 (J) |
| 9/25/2019 | | | 0.409 (J) | <0.185 | | 0.223 (JD) | <0.209 | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 48.21% NDs. Annual per-constituent alpha = 0.006093. Individual comparison alpha = 0.0006109 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Radium 228, Total (pCi/L) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

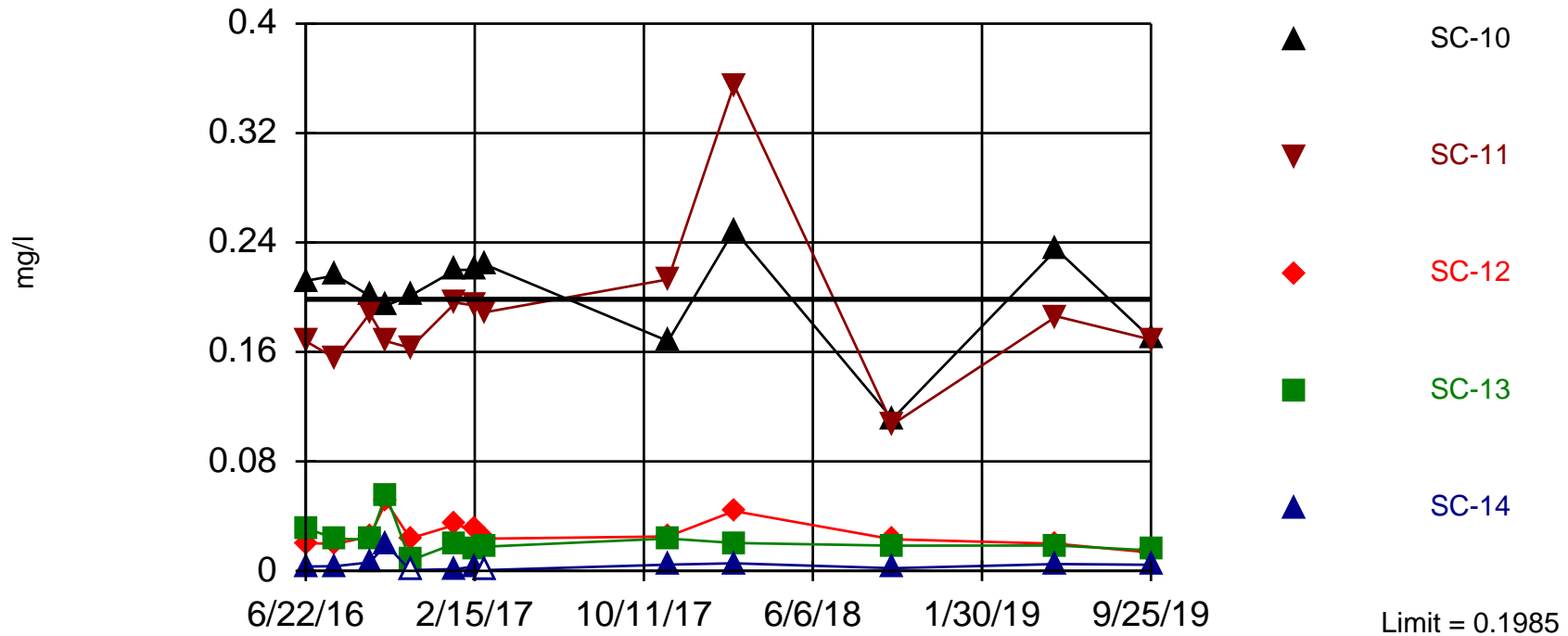
| | FC-1 | SC-10 | CC-1 | SC-11 | SC-12 | SC-13 | SC-14 | FC-2 | FC-3A | FC-3B |
|------------|------------|-----------|------------|-----------|--------|------------|-----------|-----------|------------|-----------|
| 6/22/2016 | 1.18 | 0.845 (J) | 0.904 (JD) | 1.59 | <0.337 | <0.374 | 0.459 (J) | <0.491 | | |
| 6/23/2016 | | | | | | | | | 0.953 (J) | |
| 6/27/2016 | | | | | | | | | | 0.625 (J) |
| 8/2/2016 | | | 0.7735 (D) | | | | | <0.391 | <0.367 | 1.66 |
| 8/3/2016 | | 0.419 (J) | | <0.468 | <0.46 | <0.378 | 0.541 (J) | | | |
| 9/19/2016 | 1.72 | | 0.563 (J) | | | | | <0.499 | <0.548 | <0.508 |
| 9/20/2016 | | <0.52 | | <0.721 | <0.558 | <0.759 | <0.724 | | | |
| 10/12/2016 | 1.48 | | 1.26 | | | | | <0.37 | 0.432 (J) | <0.425 |
| 10/13/2016 | | <0.341 | | <0.394 | <0.439 | <0.367 | <0.651 | | | |
| 11/15/2016 | 1.54 | | 1.2 | | | | | 0.694 (J) | <0.371 | 0.488 (J) |
| 11/16/2016 | | <0.443 | | <0.334 | <0.327 | <0.417 | <0.41 | | | |
| 1/18/2017 | 1.38 | | 0.925 (D) | | | | | 0.343 (J) | 0.495 (J) | <0.505 |
| 1/19/2017 | | 0.371 (J) | | <0.331 | <0.418 | <0.42 | <0.374 | | | |
| 2/14/2017 | 1.585 (D) | | 1.21 | | | | | 0.51 (J) | 0.593 (J) | 0.748 (J) |
| 2/15/2017 | | 0.585 (J) | | 0.382 (J) | <0.395 | <0.386 | 1.19 | | | |
| 2/28/2017 | 1.28 | | 1.435 (D) | | | | | <0.472 | 0.582 (J) | <0.439 |
| 3/1/2017 | | <0.48 | | 0.632 (J) | <0.439 | <0.378 | <0.49 | | | |
| 11/13/2017 | <4.93 | | <4.52 | | | | | <3.69 | <3.41 | <3.88 |
| 11/14/2017 | | | | <4.75 (D) | <4.84 | <4.68 | <4.01 | | | |
| 2/14/2018 | <4.46 | | <3.48 | | | | | <3.6 | <4.5 (D) | <4.35 |
| 2/15/2018 | | <4.08 | | <4.14 | <3.47 | 3.18 (J) | <4.5 | | | |
| 5/14/2019 | | | | | | | | | <0.656 (D) | <0.512 |
| 9/24/2019 | 1.0205 (D) | | 1.08 | | <0.721 | | | <0.739 | <0.678 | <0.662 |
| 9/25/2019 | | <1.08 | | <0.651 | | <0.804 (D) | <0.591 | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 65 background values. 1.538% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

Prediction Limit

Constituent: Selenium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

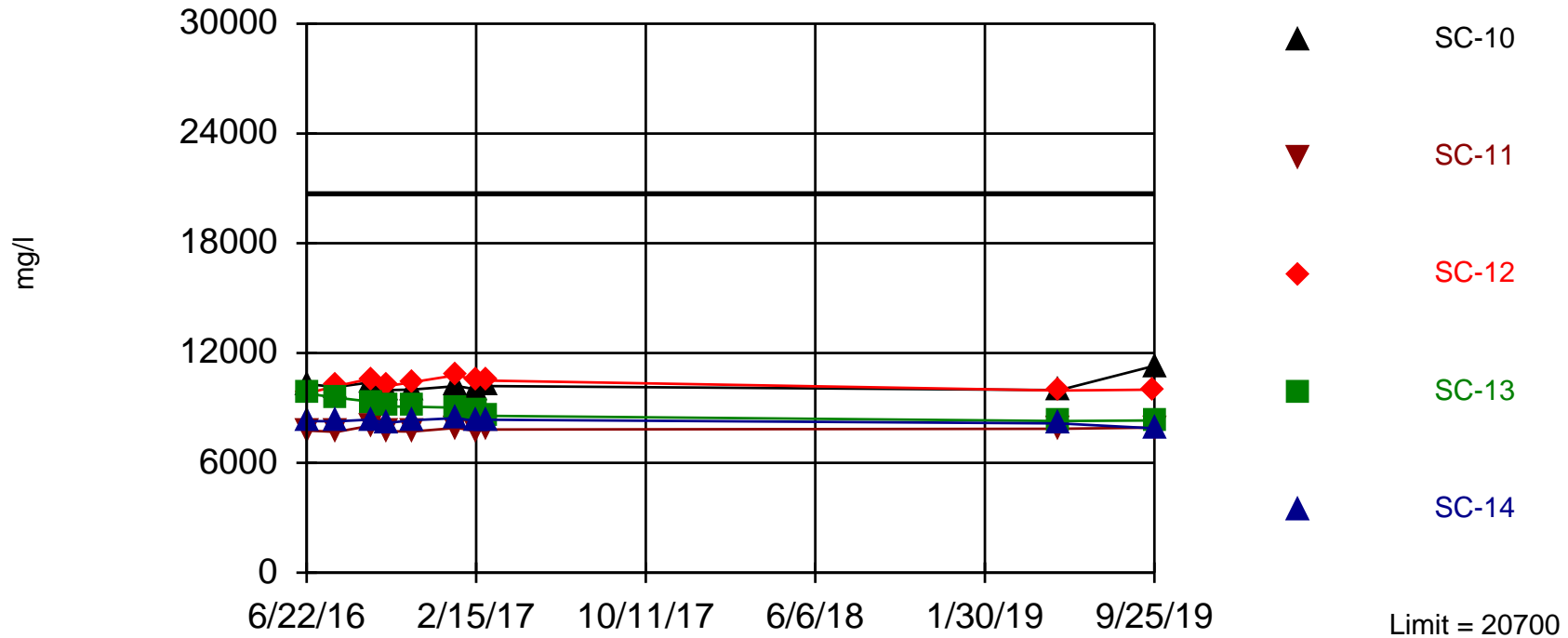
Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|-------------|------------|--------------|-------------|-------------|--------------|-------------|-------------|-------------|------------|
| 6/22/2016 | 0.016 | 0.1985 (D) | 0.0031 | 0.0311 | 0.212 | 0.0203 | 0.0471 | 0.168 | | |
| 6/23/2016 | | | | | | | | | 0.0393 | |
| 6/27/2016 | | | | | | | | | | 0.0057 |
| 8/2/2016 | 0.0098 (D) | 0.186 | | | | | 0.0412 | | 0.0382 | 0.0069 |
| 8/3/2016 | | | 0.0035 | 0.0236 | 0.216 (D) | 0.0197 | | 0.155 | | |
| 9/19/2016 | 0.028 (D) | 0.157 (D) | | | | | 0.04895 (D) | | 0.0364 (D) | 0.0112 (D) |
| 9/20/2016 | | | 0.0062 (D) | 0.0228 (D) | 0.201 (D) | 0.0252 (D) | | 0.188 (D) | | |
| 10/12/2016 | 0.0167 (D) | 0.138 (D) | | | | | <0.001 (D1) | | 0.04245 (D) | 0.0115 (D) |
| 10/13/2016 | | | 0.0192 (D) | 0.0558 (D) | 0.194 (D) | 0.05055 (D) | | 0.168 (D) | | |
| 11/15/2016 | 0.0136 | 0.145 (D) | | | | | 0.0356 (D) | | 0.0355 (D) | 0.0106 (D) |
| 11/16/2016 | | | <0.001 (D1P) | 0.00765 (D) | 0.201 (DP1) | 0.0237 (DP1) | | 0.163 (DP1) | | |
| 1/18/2017 | 0.0254 (D) | 0.1385 (D) | | | | | 0.0452 (D) | | 0.039 (D) | 0.0067 (D) |
| 1/19/2017 | | | 0.0013 (D) | 0.0202 (D) | 0.22 (D) | 0.0337 (D) | | 0.196 (D) | | |
| 2/14/2017 | 0.0141 (DT) | 0.1415 (D) | | | | | 0.0388 (DT) | | 0.0352 (DT) | 0.0092 (D) |
| 2/15/2017 | | | 0.0033 (D) | 0.0164 (D) | 0.22 (D) | 0.03 (D) | | 0.194 (D) | | |
| 2/28/2017 | 0.00375 (D) | 0.143 (D) | | | | | 0.0367 (D) | | 0.0263 (D) | 0.0011 (D) |
| 3/1/2017 | | | <0.001 (D1) | 0.0177 (D) | 0.224 (D) | 0.02355 (D) | | 0.189 (D) | | |
| 11/13/2017 | 0.015 (D) | 0.135 (D) | | | | | 0.0381 (D) | | 0.0552 (D) | 0.0107 (D) |
| 11/14/2017 | | | 0.0046 (D) | 0.0236 (D) | 0.168 (D) | 0.0252 (D) | | 0.213 (D) | | |
| 2/14/2018 | 0.0068 | 0.169 | | | | | 0.044 | | 0.0543 (D) | 0.0036 |
| 2/15/2018 | | | 0.0055 | 0.0204 | 0.249 | 0.0437 | | 0.355 | | |
| 9/25/2018 | 0.02165 (D) | 0.17 | | | | | 0.0371 | | 0.0512 | 0.0142 |
| 9/26/2018 | | | 0.002 | 0.01845 (D) | 0.111 (D) | 0.0231 | | 0.107 (D) | | |
| 5/14/2019 | 0.0178 (D) | 0.188 (D) | | | | | 0.0402 (D) | | 0.04725 (D) | 0.005 (D) |
| 5/15/2019 | | | 0.005 (D) | 0.0185 (D) | 0.235 (D) | 0.0198 (D) | | 0.186 (D) | | |
| 9/24/2019 | 0.01665 (D) | 0.19 (D) | | | | 0.0134 (D) | 0.0376 (D) | | 0.0399 (D) | 0.0115 (D) |
| 9/25/2019 | | | 0.0045 (D) | 0.015 (D) | 0.17 (D) | | | 0.169 (D) | | |

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 50 background values. Annual per-constituent alpha = 0.007403. Individual comparison alpha = 0.0007428 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

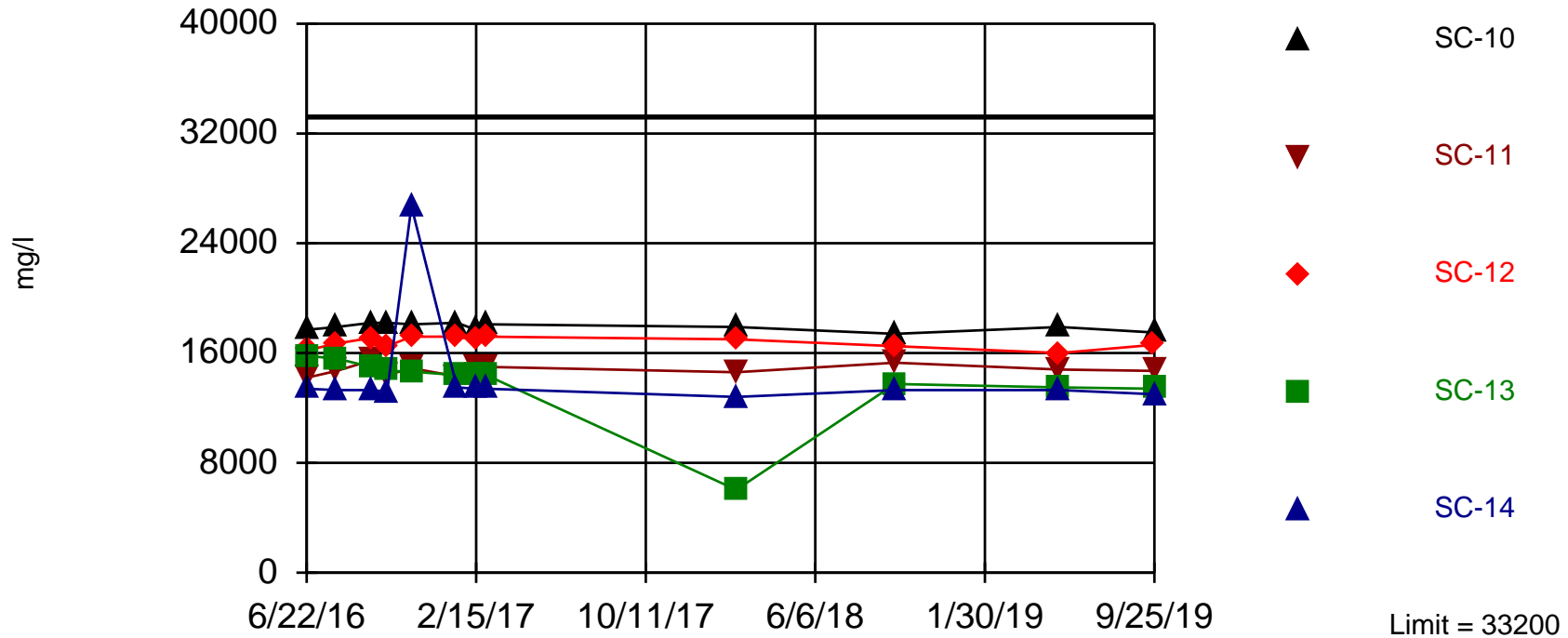
Constituent: Sulfate (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | SC-13 | SC-12 | SC-11 | SC-10 | CC-1 | FC-2 | SC-14 | FC-3A | FC-3B |
|------------|-----------|----------|-----------|----------|-----------|-----------|----------|----------|----------|----------|
| 6/22/2016 | 13200 (D) | 9790 (D) | 9800 (D) | 7770 (D) | 10300 (D) | 17200 (D) | 7080 (D) | 8290 (D) | | |
| 6/23/2016 | | | | | | | | | 5870 (D) | |
| 6/27/2016 | | | | | | | | | | 4820 (D) |
| 8/2/2016 | 13000 (D) | | | | | 17200 (D) | 7000 (D) | | 5650 (D) | 5240 (D) |
| 8/3/2016 | | 9560 (D) | 10200 (D) | 7690 (D) | 10150 (D) | | | 8270 (D) | | |
| 9/19/2016 | 13000 (D) | | | | | 17300 (D) | 7030 (D) | | 5800 (D) | 5380 (D) |
| 9/20/2016 | | 9340 (D) | 10600 (D) | 8035 (D) | 10400 (D) | | | 8370 (D) | | |
| 10/12/2016 | 12800 (D) | | | | | 16600 (D) | 6910 (D) | | 5635 (D) | 4940 (D) |
| 10/13/2016 | | 9080 (D) | 10200 (D) | 7730 (D) | 9980 (D) | | | 8180 (D) | | |
| 11/15/2016 | 13600 (D) | | | | | 17400 (D) | 6910 | | 5735 (D) | 5370 (D) |
| 11/16/2016 | | 9070 (D) | 10400 (D) | 7710 (D) | 10000 (D) | | | 8330 (D) | | |
| 1/18/2017 | 13700 (D) | | | | | 17550 (D) | 7040 (D) | | 5880 (D) | 4590 (D) |
| 1/19/2017 | | 9020 (D) | 10800 (D) | 7910 (D) | 10200 (D) | | | 8450 (D) | | |
| 2/14/2017 | 13200 (D) | | | | | 16800 (D) | 6840 (D) | | 5720 (D) | 4470 (D) |
| 2/15/2017 | | 8840 (D) | 10500 (D) | 7730 (D) | 10020 (D) | | | 8270 (D) | | |
| 2/28/2017 | 13100 (D) | | | | | 17400 (D) | 6940 (D) | | 5820 (D) | 4640 (D) |
| 3/1/2017 | | 8570 (D) | 10500 (D) | 7820 (D) | 10200 (D) | | | 8360 (D) | | |
| 5/14/2019 | 13200 (D) | | | | | 18300 (D) | 6660 (D) | | 5725 (D) | 4250 (D) |
| 5/15/2019 | | 8290 (D) | 9955 (D) | 7860 (D) | 9980 (D) | | | 8160 (D) | | |
| 9/24/2019 | 13250 (D) | | 10000 (D) | | | 20700 (D) | 7130 (D) | | 5770 (D) | 4440 (D) |
| 9/25/2019 | | 8315 (D) | | 7930 (D) | 11300 (D) | | | 7890 (D) | | |

Within Limit

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.005219. Individual comparison alpha = 0.0005231 (1 of 2). Comparing 5 points to limit.

Constituent: TDS Analysis Run 1/13/2020 11:00 AM View: CCR Landfill
 Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

Prediction Limit

Constituent: TDS (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

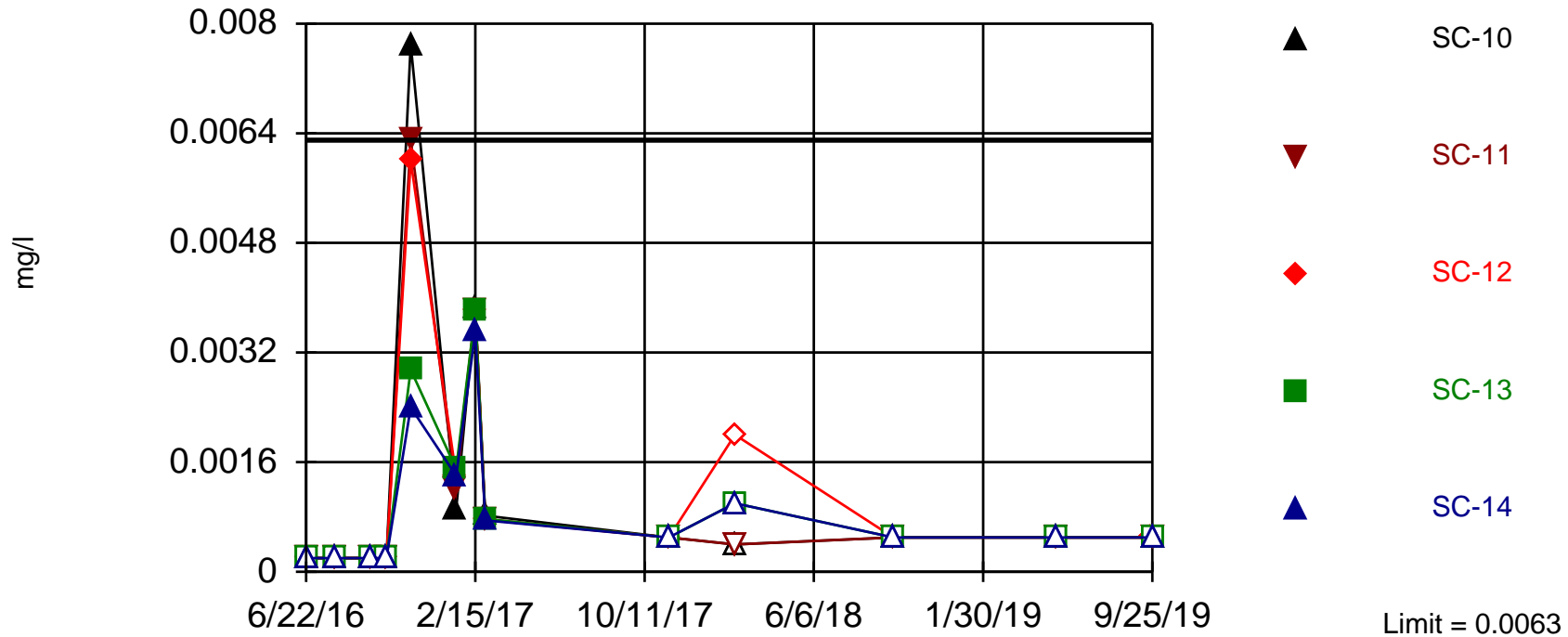
| | FC-1 | FC-2 | SC-14 | SC-11 | SC-12 | SC-10 | SC-13 | CC-1 | FC-3A | FC-3B |
|------------|-----------|-----------|-------|-----------|-----------|-----------|-----------|-----------|----------|-------|
| 6/22/2016 | 22300 | 11200 | 13400 | 14200 | 16200 | 17700 | 15800 | 30950 (D) | | |
| 6/23/2016 | | | | | | | | | 9460 | |
| 6/27/2016 | | | | | | | | | | 7770 |
| 8/2/2016 | 22000 (D) | 10900 | | | | | | 2.1 | 9140 | 9200 |
| 8/3/2016 | | | 13300 | 14700 | 16700 | 17900 (D) | 15600 | | | |
| 9/19/2016 | 21900 | 11250 (D) | | | | | | 30500 | 9320 | 9410 |
| 9/20/2016 | | | 13300 | 15450 (D) | 17100 | 18200 | 15000 | | | |
| 10/12/2016 | 23200 | 11600 | | | | | | 31400 | 9470 (D) | 9450 |
| 10/13/2016 | | | 13200 | 14400 | 16500 (D) | 18200 | 14700 | | | |
| 11/15/2016 | 22100 | 11300 | | | | | | 30600 | 9320 (D) | 9630 |
| 11/16/2016 | | | 26700 | 14900 | 17200 | 18100 | 14650 (D) | | | |
| 1/18/2017 | 22200 | 11200 | | | | | | 31200 (D) | 9180 | 9250 |
| 1/19/2017 | | | 13500 | 14300 | 17200 | 18200 | 14400 | | | |
| 2/14/2017 | 22100 | 11200 | | | | | | 30450 (D) | 9310 | 9350 |
| 2/15/2017 | | | 13400 | 15000 | 17000 | 17700 (D) | 14400 | | | |
| 2/28/2017 | 22100 (D) | 11300 | | | | | | 30800 | 9490 | 9410 |
| 3/1/2017 | | | 13400 | 15000 | 17200 (D) | 18100 | 14400 | | | |
| 2/14/2018 | 22300 | 11000 | | | | | | 32500 | 9400 (D) | 9040 |
| 2/15/2018 | | | 12800 | 14600 | 17000 | 17900 | 6040 | | | |
| 9/25/2018 | 21800 (D) | 10900 | | | | | | 31400 | 9700 | 8970 |
| 9/26/2018 | | | 13300 | 15300 | 16500 | 17400 | 13750 (D) | | | |
| 5/14/2019 | 22300 | 10800 | | | | | | 32700 | 9280 (D) | 7890 |
| 5/15/2019 | | | 13300 | 14800 | 16000 (D) | 17900 | 13500 | | | |
| 9/24/2019 | 22200 (D) | 10600 | | | 16600 | | | 33200 | 9220 | 7860 |
| 9/25/2019 | | | 13000 | 14700 | | 17500 | 13400 (D) | | | |

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 65 background values. 66.15% NDs. Annual per-constituent alpha = 0.004547. Individual comparison alpha = 0.0004556 (1 of 2). Comparing 5 points to limit.

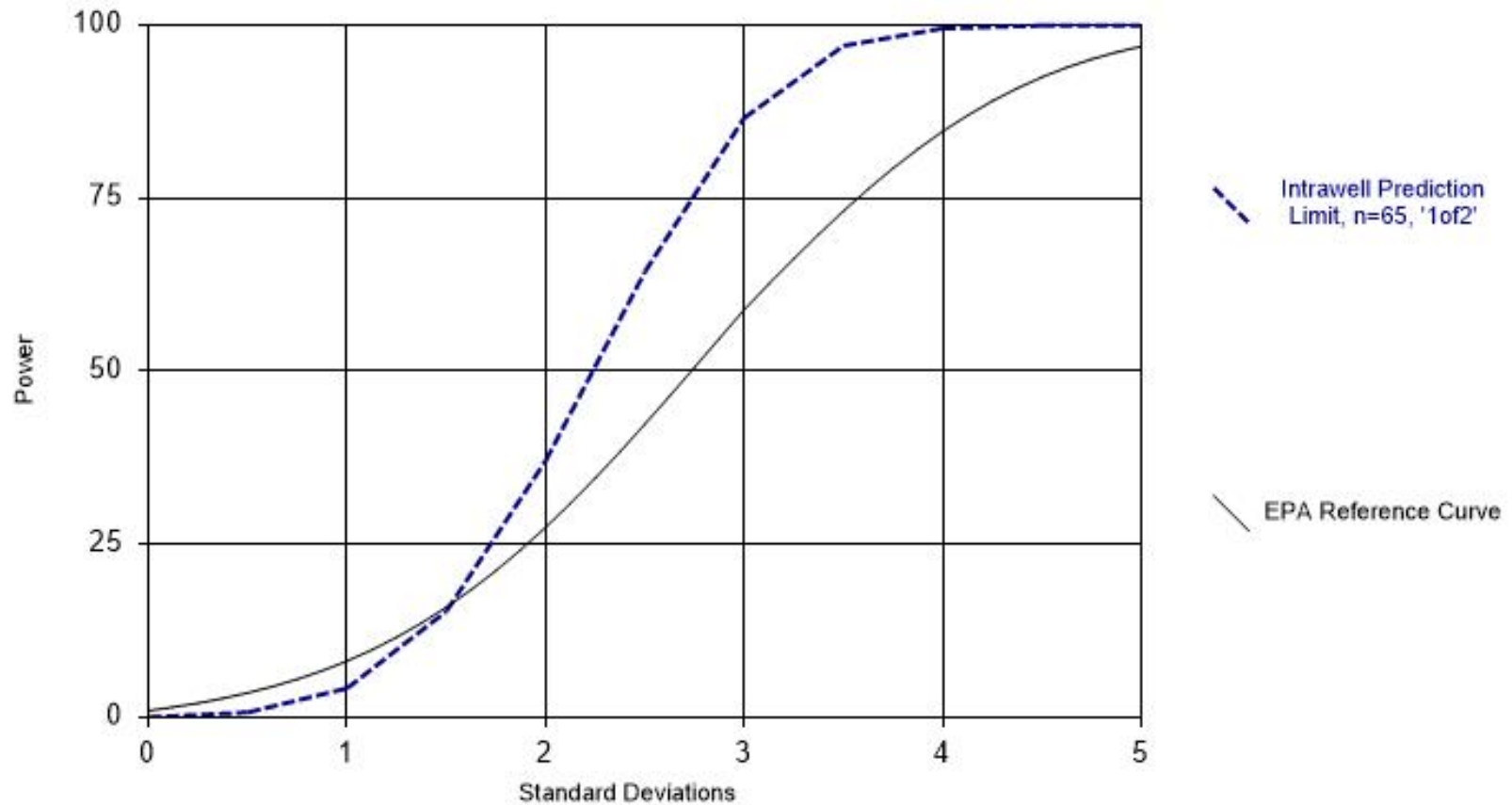
Prediction Limit

Constituent: Thallium, Total (mg/l) Analysis Run 1/13/2020 11:03 AM View: CCR Landfill

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database

| | FC-1 | CC-1 | SC-14 | SC-13 | SC-10 | SC-12 | FC-2 | SC-11 | FC-3A | FC-3B |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 6/22/2016 | 0.0002 | 0.000455 (D) | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/23/2016 | | | | | | | | | <0.0002 | |
| 6/27/2016 | | | | | | | | | | <0.0002 |
| 8/2/2016 | <0.0002 (D) | 0.00045 | | | | | <0.0002 | | <0.0002 | <0.0002 |
| 8/3/2016 | | | <0.0002 | <0.0002 | <0.0002 (D) | <0.0002 | | <0.0002 | | |
| 9/19/2016 | 0.00027 (D) | <0.0002 (D1) | | | | | 0.000545 (D) | | <0.0002 (D1) | <0.0002 (D1) |
| 9/20/2016 | | | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D) | | |
| 10/12/2016 | <0.0002 (D1) | <0.0002 (D1) | | | | | <0.0002 (D1) | | <0.0002 (D) | <0.0002 (D1) |
| 10/13/2016 | | | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | <0.0002 (D1) | | <0.0002 (D1) | | |
| 11/15/2016 | 0.0061 (D) | 0.0063 (D) | | | | | <0.0002 (D1) | | 0.0057 (D) | 0.0056 (D) |
| 11/16/2016 | | | 0.0024 (D) | 0.00295 (D) | 0.0077 (D) | 0.006 (D) | | 0.0063 (D) | | |
| 1/18/2017 | <0.0005 (D1) | 0.0014 (D) | | | | | <0.0005 (D1) | | 0.00069 (D) | 0.00098 (D) |
| 1/19/2017 | | | 0.0014 (D) | 0.0015 (D) | 0.00091 (D) | 0.0014 (D) | | 0.0012 (D) | | |
| 2/14/2017 | 0.0037 (D) | 0.00385 (D) | | | | | 0.0036 (D) | | 0.0034 (D) | 0.0062 (D) |
| 2/15/2017 | | | 0.0035 (D) | 0.0038 (D) | 0.00385 (D) | 0.0038 (D) | | 0.0038 (D) | | |
| 2/28/2017 | 0.0011 (D) | 0.0014 (D) | | | | | 0.0011 (D) | | 0.0011 (D) | 0.00091 (D) |
| 3/1/2017 | | | 0.00075 (D) | 0.00077 (D) | 0.00082 (D) | 0.00076 (D) | | 0.00077 (D) | | |
| 11/13/2017 | <0.0005 (D1) | <0.0005 (D1) | | | | | <0.0005 (D1) | | <0.0005 (D1) | <0.0005 (D1) |
| 11/14/2017 | | | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | <0.0005 (D1) | | <0.0005 (D1) | | |
| 2/14/2018 | <0.002 | <0.002 | | | | | <0.001 | | <0.001 (D) | <0.001 |
| 2/15/2018 | | | <0.001 | <0.001 | <0.0004 | <0.002 | | <0.0004 | | |
| 9/25/2018 | <0.0005 (D) | <0.0005 | | | | | <0.0005 | | <0.0005 | <0.0005 |
| 9/26/2018 | | | <0.0005 | <0.0005 (D) | <0.0005 (D1) | <0.0005 | | <0.0005 (D1) | | |
| 5/14/2019 | <0.0005 | <0.0005 (D1D) | | | | | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 5/15/2019 | | | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | | |
| 9/24/2019 | <0.0005 (D1D) | <0.0005 (D1D) | | | | <0.0005 (D1D) | <0.0005 (D1D) | | <0.0005 (D1D) | <0.0005 (D1D) |
| 9/25/2019 | | | <0.0005 | <0.0005 (D1D) | <0.0005 (D1D) | | | <0.0005 (D1D) | | |

Power Curve



Kappa = 2.134, based on 5 compliance wells and 23 constituents, evaluated semi-annually (this report reflects annual total).

Tolerance Limit

Clear Spring Ranch Client: CSU Data: Ash Landfill SHDF Master Database Printed 1/13/2020, 11:35 AM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Date</u> | <u>Observ.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>%NDs</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|---------------------------|-------------|-------------------|-------------|----------------|-------------|-------------|-------------|------------------|--------------|--------------------|
| Antimony, Total (mg/l) | n/a | 0.008 | n/a | n/a | n/a | 65 | 81.54 | n/a | 0.03565 | NP Inter(NDs) |
| Arsenic, Total (mg/l) | n/a | 0.01171 | n/a | n/a | n/a | 64 | 14.06 | sqrt(x) | 0.05 | Inter |
| Barium, Total (mg/l) | n/a | 2.833 | n/a | n/a | n/a | 65 | 6.154 | n/a | 0.03565 | NP Inter(normal... |
| Beryllium, Total (mg/l) | n/a | 0.0002 | n/a | n/a | n/a | 65 | 100 | n/a | 0.03565 | NP Inter(NDs) |
| Cadmium, Total (mg/l) | n/a | 0.005 | n/a | n/a | n/a | 65 | 95.38 | n/a | 0.03565 | NP Inter(NDs) |
| Chloride (mg/l) | n/a | 1680 | n/a | n/a | n/a | 60 | 0 | n/a | 0.04607 | NP Inter(normal... |
| Chromium, Total (mg/l) | n/a | 0.01 | n/a | n/a | n/a | 65 | 69.23 | n/a | 0.03565 | NP Inter(NDs) |
| Cobalt, Total (mg/l) | n/a | 0.0139 | n/a | n/a | n/a | 63 | 84.13 | n/a | 0.0395 | NP Inter(NDs) |
| Fluoride, Total (mg/l) | n/a | 0.985 | n/a | n/a | n/a | 65 | 0 | n/a | 0.03565 | NP Inter(normal... |
| Lead, Total (mg/l) | n/a | 0.009 | n/a | n/a | n/a | 65 | 46.15 | n/a | 0.03565 | NP Inter(normal... |
| Lithium, Total (mg/l) | n/a | 1.16 | n/a | n/a | n/a | 65 | 0 | n/a | 0.03565 | NP Inter(normal... |
| Mercury, Total (mg/l) | n/a | 0.000024 | n/a | n/a | n/a | 64 | 0 | n/a | 0.03752 | NP Inter(normal... |
| Molybdenum, Total (mg/l) | n/a | 0.0201 | n/a | n/a | n/a | 65 | 43.08 | n/a | 0.03565 | NP Inter(normal... |
| Rad 226+228 (pCi/L) | n/a | 4.825 | n/a | n/a | n/a | 55 | 0 | x^(1/3) | 0.05 | Inter |
| Radium 226, Total (pCi/L) | n/a | 3.98 | n/a | n/a | n/a | 56 | 53.57 | n/a | 0.05656 | NP Inter(NDs) |
| Radium 228, Total (pCi/L) | n/a | 4.93 | n/a | n/a | n/a | 56 | 48.21 | n/a | 0.05656 | NP Inter(normal... |
| Selenium, Total (mg/l) | n/a | 0.1985 | n/a | n/a | n/a | 65 | 1.538 | n/a | 0.03565 | NP Inter(normal... |
| Thallium, Total (mg/l) | n/a | 0.0063 | n/a | n/a | n/a | 65 | 66.15 | n/a | 0.03565 | NP Inter(NDs) |

APPENDIX C

Analytical Results of Groundwater Samples

CCR LANDFILL
Analytical Results of Groundwater Samples (2019)
Constituents - Antimony to Fluoride

| Monitoring Well ID | Well Purpose | Sample Date & Purpose | Antimony ^T (mg/L) | Arsenic ^T (mg/L) | Barium ^T (mg/L) | Beryllium ^T (mg/l) | Boron ^T (mg/l) | Cadmium ^T (mg/l) | Calcium ^T (mg/l) | Chloride ^T (mg/l) | Chromium ^T (mg/l) | Cobalt ^T (mg/l) | Fluoride ^T (mg/l) |
|--------------------|----------------|-----------------------|------------------------------|-----------------------------|----------------------------|-------------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|----------------------------|------------------------------|
| CC-1 | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.0072 | 0.0044 | <0.0002 | 1.07 | <0.0005 | 340 | 1540 | 0.0018 | <0.005 | 0.2 |
| | | 09/24/2019 DM AM | <0.0005 | 0.0081 | 0.0041 | <0.0002 | 1.05 | <0.0005 | 400 | 1580 | 0.0036 | <0.005 | 0.53 |
| FC-1 | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.0029 | 0.0073 | <0.0002 | 1.02 | <0.0005 | 337 | 782 | 0.0013 | <0.005 | 0.13 |
| | | 09/24/2019 DM AM | <0.0005 | <i>0.00295</i> | <i>0.0073</i> | <0.0002 | <i>0.969</i> | <0.0005 | <i>368.5</i> | <i>811</i> | <i>0.0042</i> | <0.005 | <i>0.195</i> |
| FC-2 | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.0013 | 0.0043 | <0.0002 | 0.926 | <0.0005 | 344 | 113 | <0.001 | <0.005 | 0.51 |
| | | 09/24/2019 DM AM | <0.0005 | <0.001 | 0.0056 | <0.0002 | 0.948 | <0.0005 | 374 | 116 | 0.0035 | <0.005 | 0.72 |
| FC-3A | Upgradient | 05/14/2019 DM AM | <0.0005 | <i>0.0017</i> | <i>0.0265</i> | <0.0002 | <i>1.04</i> | <0.0005 | <i>353.5</i> | <i>124</i> | <i>0.0031</i> | <0.005 | <i>0.44</i> |
| | | 09/24/2019 DM AM | <0.0005 | 0.0016 | 0.0276 | <0.0002 | 1.07 | <0.0005 | 379 | 127 | 0.0054 | <0.005 | 0.59 |
| FC-3B | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.002 | 0.0146 | <0.0002 | 1.3 | <0.0005 | 196 | 199 | 0.0049 | <0.005 | 0.69 |
| | | 09/24/2019 DM AM | <0.0005 | 0.0044 | 0.0268 | <0.0002 | 1.42 | <0.0005 | 201 | 220 | 0.0089 | <0.005 | 0.72 |
| SC-10 | Downgradient | 05/15/2019 DM AM | <0.0005 | 0.0057 | 0.0168 | <0.0002 | 1.16 | <0.0005 | 352 | 839 | 0.0031 | <0.005 | 0.54 |
| | | 09/25/2019 DM AM | <0.0005 | 0.0051 | 0.0124 | <0.0002 | 1.2 | <0.0005 | 390 | 943 | 0.0049 | <0.005 | 0.85 |
| SC-11 | Downgradient | 05/15/2019 DM AM | <0.0005 | 0.0051 | 0.0086 | <0.0002 | 1.96 | <0.0005 | 372 | 1070 | 0.0022 | <0.005 | 0.53 |
| | | 09/25/2019 DM AM | <0.0005 | 0.005 | 0.0099 | <0.0002 | 2.14 | <0.0005 | 402 | 1090 | 0.0048 | <0.005 | 0.81 |
| SC-12 | Downgradient | 05/15/2019 DM AM | <0.0005 | <i>0.00135</i> | <i>0.00755</i> | <0.0002 | 3.83 | <0.0005 | <i>328.5</i> | 292 | <i>0.00185</i> | <0.005 | 0.8 |
| | | 09/25/2019 DM AM | <0.0005 | <0.001 | 0.007 | <0.0002 | 3.94 | <0.0005 | 352 | 316 | 0.0043 | <0.005 | 1.37 |
| SC-13 | Downgradient | 05/15/2019 DM AM | <0.0005 | 0.001 | 0.0046 | <0.0002 | 1.48 | <0.0005 | 341 | 172 | 0.0011 | <0.005 | 0.77 |
| | | 09/25/2019 DM AM | <0.0005 | 0.0011 | <i>0.0168</i> | <0.0002 | <i>1.62</i> | <0.0005 | 370 | 180 | <i>0.0049</i> | <0.005 | <i>1.225</i> |
| SC-14 | Cross-Gradient | 05/15/2019 DM AM | <0.0005 | <0.001 | 0.005 | <0.0002 | 1.58 | <0.0005 | 334 | 185 | 0.0012 | <0.005 | 0.69 |
| | | 09/25/2019 DM AM | <0.0005 | <0.001 | 0.0049 | <0.0002 | 1.67 | <0.0005 | 359 | 190 | 0.0041 | <0.005 | 1.08 |

< Indicates that the compound was not detected above the stated laboratory reporting limit.
AM Assessment Monitoring.
DM Detection Monitoring.
NA Not Analyzed.
T Total Recoverable Concentration.
D Dissolved Concentration.
Italics Average of duplicate samples collected.

CCR LANDFILL
Analytical Results of Groundwater Samples (2019)
Constituents – Lead to TDS

| Monitoring Well ID | Well Purpose | Sample Date & Purpose | Lead ^T (mg/L) | Lithium ^T (mg/L) | Mercury ^T (mg/L) | Molybdenum ^T (mg/l) | pH | Radium 226 (pCi/L) | Radium 228 (pCi/l) | Selenium ^T (mg/l) | Sulfate ^T (mg/l) | Thallium ^T (mg/l) | TDS |
|--------------------|----------------|-----------------------|--------------------------|-----------------------------|-----------------------------|--------------------------------|-----|---------------------|---------------------|------------------------------|-----------------------------|------------------------------|-------|
| CC-1 | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.798 | 0.000006 | 0.00068 | 6.8 | <0.121 ^D | 0.595 ^D | 0.188 | 18300 | <0.0005 | 32700 |
| | | 09/24/2019 DM AM | 0.00072 | 0.722 | 0.00005 | 0.00067 | 7.0 | 0.364 ^T | 1.08 ^T | 0.19 | 20700 | <0.0005 | 33200 |
| FC-1 | Upgradient | 05/14/2019 DM AM | <0.0005 | 1.13 | 0.000002 | 0.0018 | 7.1 | 0.118 ^D | 0.118 ^D | 0.0178 | 13200 | <0.0005 | 22300 |
| | | 09/24/2019 DM AM | <0.0005 | 0.9695 | 0.000002 | 0.00165 | 7.1 | 0.5655 ^T | 1.0205 ^T | 0.01665 | 13250 | <0.0005 | 22200 |
| FC-2 | Upgradient | 05/14/2019 DM AM | <0.0005 | 0.294 | 0.000003 | 0.002 | 7.2 | 0.191 ^D | <0.558 ^D | 0.0402 | 6660 | <0.0005 | 10800 |
| | | 09/24/2019 DM AM | 0.0014 | 0.274 | 0.000005 | 0.0021 | 7.3 | <0.182 ^T | <0.739 ^T | 0.0376 | 7130 | <0.0005 | 10600 |
| FC-3A | Upgradient | 05/14/2019 DM AM | 0.0011 | 0.3265 | 0.0000075 | 0.0069 | 7.5 | <0.1 ^T | <0.656 ^T | 0.04725 | 5725 | <0.0005 | 9280 |
| | | 09/24/2019 DM AM | 0.0018 | 0.303 | 0.000008 | 0.0066 | 7.4 | 0.209 ^T | <0.678 ^T | 0.0399 | 5770 | <0.0005 | 9220 |
| FC-3B | Upgradient | 05/14/2019 DM AM | 0.00073 | 0.321 | 0.000003 | 0.0014 | 7.2 | <0.088 ^T | <0.512 ^T | 0.005 | 4250 | <0.0005 | 7890 |
| | | 09/24/2019 DM AM | 0.0012 | 0.284 | 0.000005 | 0.002 | 7.1 | 0.359 ^T | <0.662 ^T | 0.0115 | 4440 | <0.0005 | 7860 |
| SC-10 | Downgradient | 05/15/2019 DM AM | 0.00092 | 0.729 | 0.00001 | 0.0054 | 7.2 | 0.261 ^D | 1.03 ^D | 0.235 | 9980 | <0.0005 | 17900 |
| | | 09/25/2019 DM AM | 0.00089 | 0.669 | 0.00001 | 0.0038 | 7.3 | 0.409 ^T | <1.08 ^T | 0.17 | 11300 | <0.0005 | 17500 |
| SC-11 | Downgradient | 05/15/2019 DM AM | <0.0005 | 0.583 | 0.000009 | 0.0025 | 7.2 | 0.446 ^D | 1.39 ^D | 0.186 | 7860 | <0.0005 | 14800 |
| | | 09/25/2019 DM AM | 0.00059 | 0.538 | 0.000009 | 0.0028 | 7.3 | <0.185 ^T | <0.651 ^T | 0.169 | 7930 | <0.0005 | 14700 |
| SC-12 | Downgradient | 05/15/2019 DM AM | <0.005 | 0.505 | 0.000004 | 0.0081 | 7.3 | 0.144 ^D | 0.525 ^D | 0.0198 | 9955 | <0.0005 | 16000 |
| | | 09/25/2019 DM AM | <0.005 | 0.464 | 0.000004 | 0.0041 | 7.3 | 0.213 ^T | <0.721 ^T | 0.0134 | 10000 | <0.0005 | 16600 |
| SC-13 | Downgradient | 05/15/2019 DM AM | <0.005 | 0.378 | 0.000002 | 0.0031 | 7.0 | <0.093 ^D | <0.443 ^D | 0.0185 | 8290 | <0.0005 | 13500 |
| | | 09/25/2019 DM AM | 0.000825 | 0.3545 | 0.000004 | 0.0031 | 7.3 | 0.223 ^T | <0.688 ^T | 0.015 | 8315 | <0.0005 | 13400 |
| SC-14 | Cross-Gradient | 05/15/2019 DM AM | <0.0005 | 0.363 | 0.000002 | 0.0086 | 7.1 | 0.232 ^D | 0.546 ^D | 0.005 | 8160 | <0.0005 | 13300 |
| | | 09/25/2019 DM AM | <0.0005 | 0.33 | 0.000002 | 0.0086 | 7.3 | <0.209 ^T | <0.591 ^T | 0.0045 | 7890 | <0.0005 | 13000 |

< Indicates that the compound was not detected above the stated laboratory reporting limit.
AM Assessment Monitoring.
DM Detection Monitoring.
NA Not Analyzed.
T Total Recoverable Concentration.
D Dissolved Concentration.
Italics Average of duplicate samples collected.

APPENDIX D

Laboratory Analytical Results



Colorado Springs Utilities

It's how we're all connected

LABORATORY SERVICES

719-448-4800

www.csu.org

Report Date: August 19, 2019

This report contains test results for the following samples:

| | | |
|--------|-------------------|------------------------|
| 430424 | 14-May-2019 11:47 | Crooked Canyon Well #1 |
| 430425 | 14-May-2019 09:30 | Fort Carson Well #1 |
| 430426 | 14-May-2019 10:13 | Fort Carson Well #2 |
| 430427 | 14-May-2019 12:50 | Fort Carson Well #3A |
| 430428 | 14-May-2019 12:50 | Fort Carson Well #3A |
| 430429 | 14-May-2019 13:32 | Fort Carson Well #3B |
| 430430 | 14-May-2019 11:08 | Equipment Blank |
| 430431 | 15-May-2019 09:18 | Sand Canyon Well #10 |
| 430432 | 15-May-2019 09:58 | Sand Canyon Well #11 |
| 430433 | 15-May-2019 11:14 | Sand Canyon Well #12 |
| 430434 | 15-May-2019 11:14 | Sand Canyon Well #12 |
| 430435 | 15-May-2019 12:22 | Sand Canyon Well #13 |
| 430436 | 15-May-2019 13:00 | Sand Canyon Well #14 |
| 430437 | 15-May-2019 10:11 | Equipment Blank |

Colorado Springs Utilities Laboratory Services Section certifies that the test results meet all approved method
And Laboratory's Quality Assurance Plan requirements unless otherwise noted.

Comments: _____

Report Approved By: Wendy M. Asay
Wendy M. Asay - Environmental Specialist

8-19-19
Date

Sample Site: Crooked Canyon Well #1
Site Identity: CC_1
Sample Number: 430424
Date/Time Sampled: 14-MAY-2019 11:47
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 32700 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.20 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 1540 | mg/L | 0.25 | D |
| | Sulfate | 18300 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.006 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1070 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 340000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 798 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 7.2 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 4.4 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.8 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 0.68 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 188 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | <0.121 | pCi/L | 0.121 | |
| * EPA_904_0 | Radium 228 | 0.595 | pCi/L | 0.593 | J |
| NA | Depth to Water | 13.54 | ft. | | |
| + SM_2510_B | Conductivity | 26300 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 12.4 | degrees C | | |
| + SM_4500HB | pH | 6.8 | SU | 2.0 | |

Sample Site: Fort Carson Well #1
Site Identity: FC_1
Sample Number: 430425
Date/Time Sampled: 14-MAY-2019 09:30
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 22300 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.13 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 782 | mg/L | 0.25 | D |
| | Sulfate | 13200 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1020 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 337000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 1130 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 2.9 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 7.3 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.3 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 1.8 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 17.8 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.118 | pCi/L | 0.098 | J |
| * EPA_904_0 | Radium 228 | <0.506 | pCi/L | 0.506 | |
| NA | Depth to Water | 14.79 | ft. | | |
| + SM_2510_B | Conductivity | 21500 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.2 | degrees C | | |
| + SM_4500HB | pH | 7.1 | SU | 2.0 | |

Sample Site: Fort Carson Well #2
Site Identity: FC_2
Sample Number: 430426
Date/Time Sampled: 14-MAY-2019 10:13
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 10800 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.51 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 113 | mg/L | 0.25 | D |
| | Sulfate | 6660 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.003 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 926 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 344000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 294 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.3 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 4.3 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | <1.0 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 2.0 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 40.2 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.191 | pCi/L | 0.121 | J |
| * EPA_904_0 | Radium 228 | <0.558 | pCi/L | 0.558 | |
| NA | Depth to Water | 12.71 | ft. | | |
| + SM_2510_B | Conductivity | 10000 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 12.4 | degrees C | | |
| + SM_4500HB | pH | 7.2 | SU | 2.0 | |

Sample Site: Fort Carson Well #3A
Site Identity: FC_3A
Sample Number: 430427
Date/Time Sampled: 14-MAY-2019 12:50
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 9290 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.44 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 124 | mg/L | 0.25 | D |
| | Sulfate | 5730 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.008 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1030 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 352000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 321 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.8 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 26.1 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 3.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 1.1 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 7.0 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 47.9 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | <0.100 | pCi/L | 0.100 | |
| * EPA_904_0 | Radium 228 | <0.656 | pCi/L | 0.656 | |
| NA | Depth to Water | 17.24 | ft. | | |
| + SM_2510_B | Conductivity | 9410 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 12.5 | degrees C | | |
| + SM_4500HB | pH | 7.5 | SU | 2.0 | |

Sample Site: Fort Carson Well #3A
Site Identity: FC_3A
Sample Number: 430428
Date/Time Sampled: 14-MAY-2019 12:50
Comp/Grab: GRAB
Sample Comments: FC_3A duplicate

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 9270 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.44 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 124 | mg/L | 0.25 | D |
| | Sulfate | 5720 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.007 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1050 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 355000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 332 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.6 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 26.9 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 3.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 1.1 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 6.8 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 46.6 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | <0.094 | pCi/L | 0.094 | |
| * EPA_904_0 | Radium 228 | <0.494 | pCi/L | 0.494 | |

Sample Site: Fort Carson Well #3B
Site Identity: FC_3B
Sample Number: 430429
Date/Time Sampled: 14-MAY-2019 13:32
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 7890 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.69 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 199 | mg/L | 0.25 | D |
| | Sulfate | 4250 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.003 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1300 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 196000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 321 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 2.0 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 14.6 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.9 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.73 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 1.4 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 5.0 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | <0.088 | pCi/L | 0.088 | |
| * EPA_904_0 | Radium 228 | <0.512 | pCi/L | 0.512 | |
| NA | Depth to Water | 16.43 | ft. | | |
| + SM_2510_B | Conductivity | 9480 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.0 | degrees C | | |
| + SM_4500HB | pH | 7.2 | SU | 2.0 | |

Sample Site: Equipment Blank
Site Identity: EQUIP_BLK
Sample Number: 430430
Date/Time Sampled: 14-MAY-2019 11:08
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | <10 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | <0.10 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | <0.25 | mg/L | 0.25 | |
| | Sulfate | <0.25 | mg/L | 0.25 | |
| EPA_1631 | Mercury (Total) | <0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | <20.0 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | <100 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | <10.0 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Barium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Chromium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Molybdenum (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Selenium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | |

Sample Site: Sand Canyon Well #10
Site Identity: SC_10
Sample Number: 430431
Date/Time Sampled: 15-MAY-2019 09:18
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 17900 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.54 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 839 | mg/L | 0.25 | D |
| | Sulfate | 9980 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.010 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1160 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 352000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 729 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 5.7 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 16.8 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 3.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.92 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 5.4 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 235 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.261 | pCi/L | 0.096 | J |
| * EPA_904_0 | Radium 228 | 1.03 | pCi/L | 0.48 | |
| NA | Depth to Water | 11.85 | ft. | | |
| + SM_2510_B | Conductivity | 17400 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 14.0 | degrees C | | |
| + SM_4500HB | pH | 7.2 | SU | 2.0 | |

Sample Site: Sand Canyon Well #11
Site Identity: SC_11
Sample Number: 430432
Date/Time Sampled: 15-MAY-2019 09:58
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 14800 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.53 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 1070 | mg/L | 0.25 | D |
| | Sulfate | 7860 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.009 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1960 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 372000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 583 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 5.1 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 8.6 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 2.2 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 2.5 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 186 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.446 | pCi/L | 0.105 | J |
| * EPA_904_0 | Radium 228 | 1.39 | pCi/L | 0.39 | |
| NA | Depth to Water | 8.87 | ft. | | |
| + SM_2510_B | Conductivity | 15200 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.2 | degrees C | | |
| + SM_4500HB | pH | 7.2 | SU | 2.0 | |

Sample Site: Sand Canyon Well #12
Site Identity: SC_12
Sample Number: 430433
Date/Time Sampled: 15-MAY-2019 11:14
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 16000 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.80 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 291 | mg/L | 0.25 | D |
| | Sulfate | 10100 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.004 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 3780 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 325000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 496 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.3 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 7.7 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.9 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 8.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 19.8 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.152 | pCi/L | 0.103 | J/R1 |
| * EPA_904_0 | Radium 228 | <0.377 | pCi/L | 0.377 | R1 |
| NA | Depth to Water | 9.11 | ft. | | |
| + SM_2510_B | Conductivity | 15000 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.0 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |

Sample Site: Sand Canyon Well #12
Site Identity: SC_12
Sample Number: 430434
Date/Time Sampled: 15-MAY-2019 11:14
Comp/Grab: GRAB
Sample Comments: SC_12 duplicate

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 16000 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.80 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 293 | mg/L | 0.25 | D |
| | Sulfate | 9810 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.004 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 3880 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 332000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 514 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.4 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 7.4 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.8 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 8.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 19.8 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.136 | pCi/L | 0.103 | J |
| * EPA_904_0 | Radium 228 | 0.525 | pCi/L | 0.387 | J |

Sample Site: Sand Canyon Well #13
Site Identity: SC_13
Sample Number: 430435
Date/Time Sampled: 15-MAY-2019 12:22
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 13500 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.77 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 172 | mg/L | 0.25 | D |
| | Sulfate | 8290 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1480 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 341000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 378 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.0 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 4.6 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 3.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 18.5 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | <0.093 | pCi/L | 0.093 | |
| * EPA_904_0 | Radium 228 | <0.443 | pCi/L | 0.443 | |
| NA | Depth to Water | 9.44 | ft. | | |
| + SM_2510_B | Conductivity | 12300 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 12.5 | degrees C | | |
| + SM_4500HB | pH | 7.0 | SU | 2.0 | |

Sample Site: Sand Canyon Well #14
Site Identity: SC_14
Sample Number: 430436
Date/Time Sampled: 15-MAY-2019 13:00
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 13300 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.69 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 185 | mg/L | 0.25 | D |
| | Sulfate | 8160 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1580 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | 334000 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 363 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 5.0 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 1.2 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 8.6 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 5.0 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.232 | pCi/L | 0.090 | J |
| * EPA_904_0 | Radium 228 | 0.546 | pCi/L | 0.373 | J |
| NA | Depth to Water | 9.14 | ft. | | |
| + SM_2510_B | Conductivity | 12000 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 11.3 | degrees C | | |
| + SM_4500HB | pH | 7.1 | SU | 2.0 | |

Sample Site: Equipment Blank
Site Identity: EQUIP_BLK
Sample Number: 430437
Date/Time Sampled: 15-MAY-2019 10:11
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | <10 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | <0.10 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | <0.25 | mg/L | 0.25 | |
| | Sulfate | <0.25 | mg/L | 0.25 | |
| EPA_1631 | Mercury (Total) | <0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | <20.0 | ug/L | 20.0 | T |
| | Calcium (Total Recoverable) | <100 | ug/L | 100 | T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | <10.0 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | <0.20 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | <1.0 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | <0.20 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | <1.0 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |

Analysis Information:

*: Analysis performed by an external contract laboratory.

+: Analysis performed in the Field.

^: The Reporting Limit for the total analytes is less than two times the method Detection Limit (MDL).
The associated concentration value reported is an approximation of the analyte.

#: Total value is a result of a calculation.

~: Sample was not distilled prior to analysis.

** : This analysis is not listed in 40 CFR Part 136.

Data Qualifiers:

D - Sample required dilution. The associated analyte concentration value reported has dilution factor applied. Reporting Limit does not reflect dilution factor.

D1 - To minimize matrix effects, the sample required dilution. The result is below the Reporting Limit, but within the method defined instrument detection.

J - Analysis confirms the presence of the analyte at a concentration which is less than the established Reporting Limit(RL), but greater than the Method Detection Limit(MDL). The associated concentration value reported is approx.

R1 - Carrier is outside acceptance limits.

T - The matrix spike recovery for the sample batch is outside the established range. The performance of the method is shown to be in control. The recovery is matrix related, not method related.

T1 - The analyte concentration in the sample is disproportionate to the spike level. The performance of the method was shown to be in control.

CCR Landfill Groundwater Assessment

Sample Date: 5-14-19

QC Report Needed

Sampler: HEZEL

| LOCATION | # Bottles | LIMS # | Sample Time | pH, Field (su) SM 4500 H | Temperature, Field (C) SM 2550 B | Conductivity, Field (umhos/cm) SM 2510 B | Depth to Water (feet) | Fluoride, SM 4500 F C | Total Dissolved Solids, SM 2540 C | Chloride, Sulfate EPA 300.0 | EPA 200.7 (B, Ca, Co & Li - Total Recoverable) | EPA 200.8 (Sb, As, Ba, Be, Cd, Cr, Pb, Mo, Se & Tl - Total Recoverable) | Mercury, EPA 1631 (not collected using clean-hands/dirty-hands) | Radium 226 & Radium 228 (sent to GEL) | Comments |
|--------------------|-----------|--------|-------------|--------------------------|----------------------------------|------------------------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------|------------------|
| CC_1 | 8 | 430424 | 1147 | 6.85 | 12.4 | 26,300 | 13.54 | X | X | X | X | X | X | X | TA ST. LOUIS |
| FC_1 | 8 | 430425 | 930 | 7.08 | 13.2 | 21,500 | 14.79 | X | X | X | X | X | X | X | |
| FC_2 | 8 | 430426 | 1013 | 7.23 | 12.4 | 10,030 | 12.71 | X | X | X | X | X | X | X | |
| FC_3A | 8 | 430427 | 1250 | 7.48 | 12.5 | 9,410 | 17.24 | X | X | X | X | X | X | X | Rds NOT Filtered |
| FC_3A Duplicate | 8 | 430428 | 1250 | | | | | X | X | X | X | X | X | X | Rds NOT Filtered |
| FC_3B | 8 | 430429 | 1332 | 7.20 | 13.0 | 9,480 | 16.43 | X | X | X | X | X | X | X | |
| EQUIP_BLK | 6 | 430430 | 1108 | | | | | X | X | X | X | X | X | X | |
| Total # of Bottles | 54 | | | | | | | | | | | | | | |

F = Field Filtered

Additional Comments / Sample Rejections/
Actions
Sample Template: CCR_LAND
Project ID: CCR_LAND
Test Schedule: CCR_LAND

Relinquished by: HEZEL Date/Time: 5-14-19 @ 1415
Received by: McGleason Campbell @ 5-14-19 @ 1415

① 51519
WMT

CCR Landfill Groundwater Assessment

Sample Date: 5-15-19

QC Report Needed

Sampler: J Metzler

| LOCATION | # Bottles | LIMS # | Sample Time | DH Field (su) SM 4500 H | Temperature Field (C) SM 2550 B | Conductivity Field (umhos/cm) SM 2510 B | Depth to Water (feet) | Fluoride, SM 4500 F C | Total Dissolved Solids, SM 2540 C | Chloride, Sulfate EPA 300.0 | EPA 200.7 (B, Ca, Co & Li - Total Recoverable) | EPA 200.8 (Sb, As, Ba, Be, Cd, Cr, Pb, Mo, Se & Tl - Total Recoverable) | Mercury, EPA 1631 (not collected using clean-hands/dirty-hands) | Radium 226 & Radium 228 (sent to GEL) | Comments |
|--------------------|-----------|--------|-------------|-------------------------|---------------------------------|-----------------------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------|----------|
| SC_10 | 8 | 430431 | 918 | 7.25 | 14.0 | 17,440 | 11.85 | X | X | X | X | X | X | X | |
| SC_11 | 8 | 430432 | 958 | 7.19 | 13.2 | 15,240 | 8.87 | X | X | X | X | X | X | X | |
| SC_12 | 8 | 430433 | 1114 | 7.28 | 13.0 | 14,950 | 9.11 | X | X | X | X | X | X | X | |
| SC_12 Duplicate | 8 | 430434 | 1114 | | | | | X | X | X | X | X | X | X | |
| SC_13 | 8 | 430435 | 1222 | 6.98 | 12.5 | 12,290 | 9.44 | X | X | X | X | X | X | X | |
| SC_14 | 8 | 430436 | 1300 | 7.13 | 11.3 | 12,000 | 9.14 | X | X | X | X | X | X | X | |
| EQUIP_BLK | 6 | 430437 | 1011 | | | | | X | X | X | X | X | X | X | |
| Total # of Bottles | 54 | | | | | | | | | | | | | | |

Please mark boxes that apply.

F = Field Filtered

Additional Comments / Sample Rejections/ Actions
Sample Template: CCR_LAND
Project ID: CCR_LAND
Test Schedule: CCR_LAND

Relinquished by: [Signature] Date/Time: 5-15-19 @ 1350
Received by: [Signature] Date/Time: 5-15-19 @ 1350

5-16-19 WMA



Colorado Springs Utilities
It's how we're all connected

**Laboratory Services Section
QC Report**

**CCR Landfill Assessment
May 2019**

Quality Assurance Officer Approval: _____

Date: _____

7-15-19

QC Narrative

This report is for sample numbers 430424-430437.

Total Dissolved Solids by Standard Methods 2540 C

There are no anomalies to report for this analysis.

Fluoride by Standard Methods 4500 F C

There are no anomalies to report for this analysis.

Anions by EPA Method 300.0

There are no anomalies to report for this analysis.

Mercury by EPA 1631 E

There are no anomalies to report for this analysis.

EPA 200.7

The matrix spike recovery for the sample batch is outside the established range for Total Recoverable Boron. The performance of the method is shown to be in control. The recovery is matrix related, not method related. Associated samples 430431-430437 are qualified.

The analyte concentration in the sample is disproportionate to the spike level for Total Recoverable Calcium. The performance of the method was shown to be in control. Associated samples 4300424-430437 are qualified.

EPA 200.8

There are no anomalies to report for this analysis.

Method: Total Dissolved Solids by Standard Methods 2540 C
 Batch Analysis date: 5/15/19
 Sampled date: 5/14/19 for samples 430424-430430

Matrix QC performed on sample 430424

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|-----------|------------------------|--------------|----------------------|---------|---------------|
| QCS | Total Dissolved Solids | 102 | 84 - 111 | | |
| Duplicate | Total Dissolved Solids | | | 1 | <10 |

Method: Total Dissolved Solids by Standard Methods 2540 C
 Batch Analysis date: 5/15/19
 Sampled date: 5/15/19 for samples 430431-431437

Matrix QC performed on sample 430436

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|-----------|------------------------|--------------|----------------------|---------|---------------|
| QCS | Total Dissolved Solids | 99 | 84 - 110 | | |
| Duplicate | Total Dissolved Solids | | | <1 | <10 |

Method: Fluoride by Standard Methods 4500 F C
 Batch Analysis date: 5/15/19
 Sampled date: 5/14/19 for samples 430424-430430

Matrix QC performed on sample 430429

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|------------------|---------------|----------------------|---------|---------------|
| MRL | Fluoride (Total) | 100 | 90 - 110 | | |
| QCS | Fluoride (Total) | 102 | 90 - 110 | | |
| MS | Fluoride (Total) | 90 | 80 - 120 | | |
| MSD | Fluoride (Total) | | | 2 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Fluoride (Total) | <0.10 mg/L | 0.10 mg/L | | |

Method: Fluoride by Standard Methods 4500 F C
 Batch Analysis date: 5/17/19
 Sampled date: 5/15/19 for samples 430431-430437

Matrix QC performed on sample 430436

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|------------------|---------------|----------------------|---------|---------------|
| MRL | Fluoride (Total) | 94 | 90 - 110 | | |
| QCS | Fluoride (Total) | 94 | 90 - 110 | | |
| MS | Fluoride (Total) | 100 | 80 - 120 | | |
| MSD | Fluoride (Total) | | | <1 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Fluoride (Total) | <0.10 mg/L | 0.10 mg/L | | |

Method: Anions by EPA Method 300.0
 Batch Analysis date: 5/17/19
 Sampled date: 5/14/19 for samples 430424 - 430430
 Sampled date: 5/15/19 for samples 430431 - 430437

Matrix QC performed on samples 430427 and 430433

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-------------------|---------------|----------------------|---------|---------------|
| MRL | Chloride | 96 | 50-150 | | |
| LFB | Chloride | 100 | 90-110 | <1 | <20 |
| FD | Chloride (430427) | | | <1 | <20 |
| MS | Chloride (430427) | 98 | 80-120 | | |
| FD | Chloride (430433) | | | <1 | <20 |
| MS | Chloride (430433) | 96 | 80-120 | | |
| MRL | Sulfate | 98 | 50-150 | | |
| LFB | Sulfate | 100 | 90-110 | <1 | <20 |
| FD | Sulfate (430427) | | | <1 | <20 |
| MS | Sulfate (430427) | 95 | 80-120 | | |
| FD | Sulfate (430433) | | | 3 | <20 |
| MS | Sulfate (430433) | 94 | 80-120 | | |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Chloride | <0.25 mg/L | 0.25 mg/L | | |
| LRB | Sulfate | <0.25 mg/L | 0.25 mg/L | | |

Method: Mercury by EPA 1631 E
 Batch Analysis date: 6/19/19
 Sampled date: 5/14/19 for samples 430424 - 430430
 Sampled date: 5/15/19 for samples 430431 - 430437

Matrix QC performed on sample 430427 and 430433

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|--------------------------|---------------|----------------------|---------|---------------|
| MRL | Mercury (Total) | 103 | 50-150 | | |
| QCS | Mercury (Total) | 107 | 77-123 | | |
| MS | Mercury (Total) (430427) | 90 | 71-125 | | |
| MSD | Mercury (Total) (430427) | | | 8 | <24 |
| MS | Mercury (Total) (430433) | 91 | 71-125 | | |
| MSD | Mercury (Total) (430433) | | | 2 | <24 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Mercury (Total) | <0.5 ng/L | 0.5 ng/L | | |

Method: EPA 200.7
 Batch Analysis date: 5/31/19
 Digestion date: 5/23/19
 Sampled date: 5/14/19 for samples 430424 - 430430

Matrix QC performed on sample 430427

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-----------------------------|--------------|----------------------|---------|---------------|
| MRL | Boron (Total Recoverable) | 116 | 50-150 | | |
| LFB | Boron (Total Recoverable) | 102 | 85-115 | | |
| MS | Boron (Total Recoverable) | 87 | 70-130 | | |
| MSD | Boron (Total Recoverable) | | | 6 | <20 |
| MRL | Calcium (Total Recoverable) | 111 | 50-150 | | |
| LFB | Calcium (Total Recoverable) | 100 | 85-115 | | |
| MS | Calcium (Total Recoverable) | *-18 | 70-130 | | |
| MSD | Calcium (Total Recoverable) | | | 5 | <20 |
| MRL | Cobalt (Total Recoverable) | 102 | 50-150 | | |
| LFB | Cobalt (Total Recoverable) | 100 | 85-115 | | |
| MS | Cobalt (Total Recoverable) | 86 | 70-130 | | |
| MSD | Cobalt (Total Recoverable) | | | <1 | <20 |
| MRL | Lithium (Total Recoverable) | 106 | 50-150 | | |
| LFB | Lithium (Total Recoverable) | 102 | 85-115 | | |
| MS | Lithium (Total Recoverable) | 116 | 70-130 | | |
| MSD | Lithium (Total Recoverable) | | | <1 | <20 |

| QC Type | Analyte | Concentration | Limit |
|---------|-----------------------------|---------------|------------|
| LRB | Boron (Total Recoverable) | <10.78 ug/L | 10.78 ug/L |
| LRB | Calcium (Total Recoverable) | <25.3 ug/L | 25.3 ug/L |
| LRB | Cobalt (Total Recoverable) | <1.78 ug/L | 1.78 ug/L |
| LRB | Lithium (Total Recoverable) | <5.15 ug/L | 5.15 ug/L |

*See Narrative

Method: EPA 200.7
 Batch Analysis date: 6/4/19
 Digestion date: 5/23/19
 Sampled date: 5/15/19 for samples 430431 - 430437

Matrix QC performed on sample 430433

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-----------------------------|--------------|----------------------|---------|---------------|
| MRL | Boron (Total Recoverable) | 103 | 50-150 | | |
| LFB | Boron (Total Recoverable) | 102 | 85-115 | | |
| MS | Boron (Total Recoverable) | *42 | 70-130 | | |
| MSD | Boron (Total Recoverable) | | | 2 | <20 |
| MRL | Calcium (Total Recoverable) | 106 | 50-150 | | |
| LFB | Calcium (Total Recoverable) | 101 | 85-115 | | |
| MS | Calcium (Total Recoverable) | *5 | 70-130 | | |
| MSD | Calcium (Total Recoverable) | | | 2 | <20 |
| MRL | Cobalt (Total Recoverable) | 103 | 50-150 | | |
| LFB | Cobalt (Total Recoverable) | 101 | 85-115 | | |

| MS | Cobalt (Total Recoverable) | 85 | 70-130 | | |
|---------|-----------------------------|---------------|--------|------------|-----|
| MSD | Cobalt (Total Recoverable) | | | <1 | <20 |
| MRL | Lithium (Total Recoverable) | 102 | 50-150 | | |
| LFB | Lithium (Total Recoverable) | 103 | 85-115 | | |
| MS | Lithium (Total Recoverable) | 121 | 70-130 | | |
| MSD | Lithium (Total Recoverable) | | | 2 | <20 |
| QC Type | Analyte | Concentration | | Limit | |
| LRB | Boron (Total Recoverable) | <10.78 ug/L | | 10.78 ug/L | |
| LRB | Calcium (Total Recoverable) | <25.3 ug/L | | 25.3 ug/L | |
| LRB | Cobalt (Total Recoverable) | <1.78 ug/L | | 1.78 ug/L | |
| LRB | Lithium (Total Recoverable) | <5.15 ug/L | | 5.15 ug/L | |

*See Narrative

Method: EPA 200.8

Digestion date: 5/23/19

Batch Analysis date: 6/5/19

Sampled date: 5/14/19 for samples 430424 – 430430

Matrix QC performed on sample 430427

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-------------------------------|--------------|----------------------|---------|---------------|
| MRL | Antimony (Total Recoverable) | 97 | 50-150 | | |
| LFB | Antimony (Total Recoverable) | 100 | 85-115 | | |
| MS | Antimony (Total Recoverable) | 86 | 70-130 | | |
| MSD | Antimony (Total Recoverable) | | | <1 | <20 |
| MRL | Arsenic (Total Recoverable) | 98 | 50-150 | | |
| LFB | Arsenic (Total Recoverable) | 101 | 85-115 | | |
| MS | Arsenic (Total Recoverable) | 92 | 70-130 | | |
| MSD | Arsenic (Total Recoverable) | | | 3 | <20 |
| MRL | Barium (Total Recoverable) | 97 | 50-150 | | |
| LFB | Barium (Total Recoverable) | 101 | 85-115 | | |
| MS | Barium (Total Recoverable) | 98 | 70-130 | | |
| MSD | Barium (Total Recoverable) | | | 1 | <20 |
| MRL | Beryllium (Total Recoverable) | 116 | 50-150 | | |
| LFB | Beryllium (Total Recoverable) | 99 | 85-115 | | |
| MS | Beryllium (Total Recoverable) | 83 | 70-130 | | |
| MSD | Beryllium (Total Recoverable) | | | 6 | <20 |
| MRL | Cadmium (Total Recoverable) | 97 | 50-150 | | |
| LFB | Cadmium (Total Recoverable) | 101 | 85-115 | | |
| MS | Cadmium (Total Recoverable) | 89 | 70-130 | | |
| MSD | Cadmium (Total Recoverable) | | | <1 | <20 |
| MRL | Chromium (Total Recoverable) | 104 | 50-150 | | |
| LFB | Chromium (Total Recoverable) | 106 | 85-115 | | |
| MS | Chromium (Total Recoverable) | 88 | 70-130 | | |
| MSD | Chromium (Total Recoverable) | | | 1 | <20 |
| MRL | Lead (Total Recoverable) | 99 | 50-150 | | |
| LFB | Lead (Total Recoverable) | 101 | 85-115 | | |
| MS | Lead (Total Recoverable) | 92 | 70-130 | | |
| MSD | Lead (Total Recoverable) | | | 1 | <20 |

| | | | | | |
|-----|--------------------------------|-----|--------|----|-----|
| MRL | Molybdenum (Total Recoverable) | 102 | 50-150 | | |
| LFB | Molybdenum (Total Recoverable) | 100 | 85-115 | | |
| MS | Molybdenum (Total Recoverable) | 91 | 70-130 | | |
| MSD | Molybdenum (Total Recoverable) | | | 1 | <20 |
| MRL | Selenium (Total Recoverable) | 100 | 50-150 | | |
| LFB | Selenium (Total Recoverable) | 102 | 85-115 | | |
| MS | Selenium (Total Recoverable) | 101 | 70-130 | | |
| MSD | Selenium (Total Recoverable) | | | <1 | <20 |
| MRL | Thallium (Total Recoverable) | 99 | 50-150 | | |
| LFB | Thallium (Total Recoverable) | 101 | 85-115 | | |
| MS | Thallium (Total Recoverable) | 91 | 70-130 | | |
| MSD | Thallium (Total Recoverable) | | | <1 | <20 |

| QC Type | Analyte | Concentration | Limit |
|---------|--------------------------------|---------------|------------|
| LRB | Antimony (Total Recoverable) | <0.176 ug/L | 0.176 ug/L |
| LRB | Arsenic (Total Recoverable) | <0.352 ug/L | 0.352 ug/L |
| LRB | Barium (Total Recoverable) | <0.044 ug/L | 0.044 ug/L |
| LRB | Beryllium (Total Recoverable) | <0.049 ug/L | 0.049 ug/L |
| LRB | Cadmium (Total Recoverable) | <0.110 ug/L | 0.110 ug/L |
| LRB | Chromium (Total Recoverable) | <0.375 ug/L | 0.375 ug/L |
| LRB | Lead (Total Recoverable) | <0.066 ug/L | 0.066 ug/L |
| LRB | Molybdenum (Total Recoverable) | <0.031 ug/L | 0.031 ug/L |
| LRB | Selenium (Total Recoverable) | <0.352 ug/L | 0.352 ug/L |
| LRB | Thallium (Total Recoverable) | <0.139 ug/L | 0.139 ug/L |

Method: EPA 200.8

Digestion date: 5/23/19

Batch Analysis date: 6/5/19

Sampled date: 5/14/19 for samples 430431 – 430437

Matrix QC performed on sample 430433

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-------------------------------|--------------|----------------------|---------|---------------|
| MRL | Antimony (Total Recoverable) | 96 | 50-150 | | |
| LFB | Antimony (Total Recoverable) | 99 | 85-115 | | |
| MS | Antimony (Total Recoverable) | 90 | 70-130 | | |
| MSD | Antimony (Total Recoverable) | | | 2 | <20 |
| MRL | Arsenic (Total Recoverable) | 103 | 50-150 | | |
| LFB | Arsenic (Total Recoverable) | 102 | 85-115 | | |
| MS | Arsenic (Total Recoverable) | 91 | 70-130 | | |
| MSD | Arsenic (Total Recoverable) | | | 1 | <20 |
| MRL | Barium (Total Recoverable) | 104 | 50-150 | | |
| LFB | Barium (Total Recoverable) | 101 | 85-115 | | |
| MS | Barium (Total Recoverable) | 92 | 70-130 | | |
| MSD | Barium (Total Recoverable) | | | <1 | <20 |
| MRL | Beryllium (Total Recoverable) | 116 | 50-150 | | |
| LFB | Beryllium (Total Recoverable) | 99 | 85-115 | | |
| MS | Beryllium (Total Recoverable) | 80 | 70-130 | | |
| MSD | Beryllium (Total Recoverable) | | | 3 | <20 |
| MRL | Cadmium (Total Recoverable) | 96 | 50-150 | | |
| LFB | Cadmium (Total Recoverable) | 100 | 85-115 | | |

| | | | | | |
|-----|--------------------------------|-----|--------|----|-----|
| MS | Cadmium (Total Recoverable) | 88 | 70-130 | | |
| MSD | Cadmium (Total Recoverable) | | | <1 | <20 |
| MRL | Chromium (Total Recoverable) | 106 | 50-150 | | |
| LFB | Chromium (Total Recoverable) | 106 | 85-115 | | |
| MS | Chromium (Total Recoverable) | 89 | 70-130 | | |
| MSD | Chromium (Total Recoverable) | | | 1 | <20 |
| MRL | Lead (Total Recoverable) | 98 | 50-150 | | |
| LFB | Lead (Total Recoverable) | 101 | 85-115 | | |
| MS | Lead (Total Recoverable) | 92 | 70-130 | | |
| MSD | Lead (Total Recoverable) | | | <1 | <20 |
| MRL | Molybdenum (Total Recoverable) | 100 | 50-150 | | |
| LFB | Molybdenum (Total Recoverable) | 102 | 85-115 | | |
| MS | Molybdenum (Total Recoverable) | 92 | 70-130 | | |
| MSD | Molybdenum (Total Recoverable) | | | 1 | <20 |
| MRL | Selenium (Total Recoverable) | 98 | 50-150 | | |
| LFB | Selenium (Total Recoverable) | 104 | 85-115 | | |
| MS | Selenium (Total Recoverable) | 96 | 70-130 | | |
| MSD | Selenium (Total Recoverable) | | | 2 | <20 |
| MRL | Thallium (Total Recoverable) | 98 | 50-150 | | |
| LFB | Thallium (Total Recoverable) | 101 | 85-115 | | |
| MS | Thallium (Total Recoverable) | 94 | 70-130 | | |
| MSD | Thallium (Total Recoverable) | | | 2 | <20 |

| QC Type | Analyte | Concentration | Limit |
|---------|--------------------------------|---------------|------------|
| LRB | Antimony (Total Recoverable) | <0.176 ug/L | 0.176 ug/L |
| LRB | Arsenic (Total Recoverable) | <0.352 ug/L | 0.352 ug/L |
| LRB | Barium (Total Recoverable) | <0.044 ug/L | 0.044 ug/L |
| LRB | Beryllium (Total Recoverable) | <0.049 ug/L | 0.049 ug/L |
| LRB | Cadmium (Total Recoverable) | <0.110 ug/L | 0.110 ug/L |
| LRB | Chromium (Total Recoverable) | <0.375 ug/L | 0.375 ug/L |
| LRB | Lead (Total Recoverable) | <0.066 ug/L | 0.066 ug/L |
| LRB | Molybdenum (Total Recoverable) | <0.031 ug/L | 0.031 ug/L |
| LRB | Selenium (Total Recoverable) | <0.352 ug/L | 0.352 ug/L |
| LRB | Thallium (Total Recoverable) | <0.139 ug/L | 0.139 ug/L |

FD – Field Duplicate
LFB – Laboratory Fortified Blank
LRB – Laboratory Reagent Blank (Method Blank)
QCS – Quality Control Sample
MRL – Minimum Reporting Limit (Verification)
MS – Matrix Spike
MSD – Matrix Spike Duplicate

Underline – Data was outside the limit

ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-34213-2

Client Project/Site: Monitoring Wells_CCR Assessment

For:

Colorado Springs Utilities
Laboratory Services Section
701 E. Las Vegas St., MC 1465
Colorado Springs, Colorado 80903

Attn: Ms. Wendy Asay

Rhonda Ridenhower

Authorized for release by:
8/14/2019 2:00:52 PM

Rhonda Ridenhower, Manager of Project Management
rhonda.ridenhower@testamericainc.com

Designee for

Chenise Lambert-Sykes, Project Manager I
(314)298-8566
chenise.lambert-sykes@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Chain of Custody | 5 |
| Receipt Checklists | 7 |
| Definitions/Glossary | 8 |
| Method Summary | 9 |
| Sample Summary | 10 |
| Client Sample Results | 11 |
| QC Sample Results | 14 |
| QC Association Summary | 16 |
| Tracer Carrier Summary | 17 |

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Job ID: 160-34213-2

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Colorado Springs Utilities

Project: Monitoring Wells_CCR Assessment

Report Number: 160-34213-2

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

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 05/17/2019; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 17.0 C.

RADIUM-226 (GFPC)

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Job ID: 160-34213-2 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

Samples SC_10 430431 (160-34213-7), SC_11 430432 (160-34213-8), SC_12 430433 (160-34213-9), SC_12 duplicate 430434 (160-34213-10), SC_13 430435 (160-34213-11) and SC_14 430436 (160-34213-12) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were prepared on 06/07/2019 and analyzed on 08/07/2019.

The Barium carrier recovery is outside the upper control limit (110%) for the following sample: SC_12 430433 (160-34213-9). The sample was heated at full heat for an extra 30 minutes to eliminate extra water molecules that could cause a high bias in carrier recovery with no significant change.

The following sample has a barium recovery above the 110% QC limit; (160-34213-9; 124%). The LCS/LCSD (laboratory control sample/laboratory control sample duplicate) have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The sample has been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been reported with this narrative. SC_12 430433 (160-34213)

Insufficient sample volume was available to perform a sample duplicate for the following samples: SC_10 430431 (160-34213-7), SC_11 430432 (160-34213-8), SC_12 430433 (160-34213-9), SC_12 duplicate 430434 (160-34213-10), SC_13 430435 (160-34213-11) and SC_14 430436 (160-34213-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

RADIUM-228 (GFPC)

Samples SC_10 430431 (160-34213-7), SC_11 430432 (160-34213-8), SC_12 430433 (160-34213-9), SC_12 duplicate 430434 (160-34213-10), SC_13 430435 (160-34213-11) and SC_14 430436 (160-34213-12) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 06/07/2019 and analyzed on 07/10/2019.

The Barium carrier recovery is outside the upper control limit (110%) for the following sample: SC_12 430433 (160-34213-9). The sample was heated at full heat for an extra 30 minutes to eliminate extra water molecules that could cause a high bias in carrier recovery with no significant change.

The following sample has a barium carrier recovery above the 110% QC limit; (160-34213-9; 124%). Affected samples had a barium correction applied. The LCS/LCSD (laboratory control sample/duplicate) have acceptable spike recoveries demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported

Insufficient sample volume was available to perform a sample duplicate for the following samples: SC_10 430431 (160-34213-7), SC_11 430432 (160-34213-8), SC_12 430433 (160-34213-9), SC_12 duplicate 430434 (160-34213-10), SC_13 430435 (160-34213-11) and SC_14 430436 (160-34213-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Regulatory Program: IDW NPDES RCRA Other:

| | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|--------------------------|--|-------------------|--|
| Client Contact | | Project Manager: Wendy Asay | | Site Contact: | | Date: | |
| Colorado Springs Utilities 701 E. Las Vegas St. Colorado Springs, CO 80903 (719) 668-4603 (xxx) xxx-xxxx | | Tel/Fax: 719-668-4603 | | Lab Contact: | | COC No. of COCs | |
| Project Name: CCR Assessment | | Analysis Turnaround Time | | Perform MS / MSD (Y / N) | | Sampler: | |
| Site: | | <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | Filtered Sample (Y / N) | | For Lab Use Only: | |
| P O # | | TAT if different from Below | | Radium 228, EPA 904.0 | | Walk-in Client: | |
| | | 2 weeks <input checked="" type="checkbox"/> | | Radium 226, EPA 903.1 | | Lab Sampling: | |
| | | 1 week <input type="checkbox"/> | | | | Job / SDG No.: | |
| | | 2 days <input type="checkbox"/> | | | | | |
| | | 1 day <input type="checkbox"/> | | | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Carrier: | Sample Specific Notes: |
|------------------------|-------------|-------------|------------------------------|--------|------------|----------|------------------------|
| CC_1 430424 | 5/14/19 | 1147 | G | GW | 2 | X | |
| FC_1 430425 | 5/14/19 | 0930 | G | GW | 2 | X | |
| FC_2 430426 | 5/14/19 | 1013 | G | GW | 2 | X | |
| FC_3A 430427 | 5/14/19 | 1250 | G | GW | 2 | X | |
| FC_3A duplicate 430428 | 5/14/19 | 1250 | G | GW | 2 | X | |
| FC_3B 430429 | 5/14/19 | 1332 | G | GW | 2 | X | |



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

| | | |
|--------------------------------------------------------------------------------|---------------------------------|---------------------|
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | Cooler Temp. (°C): Obs'd: _____ | Therm ID No.: |
| Relinquished by: <i>Mcquell Campbell</i> | Received by: <i>Allyson Hem</i> | Company: <i>SAZ</i> |
| Relinquished by: | Received by: | Company: |
| Relinquished by: | Received in Laboratory by: | Company: |



Earth City, MO 63045-1205
phone 314.298.8566 fax 314.298.8757

Regulatory Program: DW NPDES RCRA Other: _____

Client Contact: Colorado Springs Utilities
701 E. Las Vegas St.
Colorado Springs, CO 80903
(719) 668-4603 Phone
(xxx) xxx-xxxx FAX
Project Name: CCR Assessment
Site:
P O #

Project Manager: Wendy Asay
Tel/Fax: 719-668-4603
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below _____
 2 weeks
 1 week
 2 days
 1 day

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Site Contact: | | Date: |
|------------------------|-------------|-------------|---------------------------------|--------|------------|--------------------------|----------|-------|
| | | | | | | Lab Contact: | Carrier: | |
| SC_10 430431 | 5/15/19 | 0918 | G | GW | 2 | Filtered Sample (Y / N) | | |
| SC_11 430432 | 5/15/19 | 0958 | G | GW | 2 | Perform MS / MSD (Y / N) | | |
| SC_12 430433 | 5/15/19 | 1114 | G | GW | 2 | Radium 226, EPA 903.1 | | |
| SC_12 duplicate 430434 | 5/15/19 | 1114 | G | GW | 2 | Radium 228, EPA 904.0 | | |
| SC_13 430435 | 5/15/19 | 1222 | G | GW | 2 | | | |
| SC_14 430436 | 5/15/19 | 1300 | G | GW | 2 | | | |

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown
Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

Custody Seal No.: _____
Relinquished by: *Carpeda*
Relinquished by: _____
Relinquished by: _____
Company: CSU
Date/Time: 5/15/19 1330
Received by: *Wendy Asay*
Company: *TestAmerica*
Date/Time: 5-17-19/0940
Received by: _____
Company: _____
Date/Time: _____
Received in Laboratory by: _____
Company: _____
Date/Time: _____



Login Sample Receipt Checklist

Client: Colorado Springs Utilities

Job Number: 160-34213-2

Login Number: 34213

List Source: Eurofins TestAmerica, St. Louis

List Number: 1

Creator: Korrinhizer, Micha L

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

Definitions/Glossary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|-------------------------------------------------|
| U | Result is less than the sample detection limit. |
| X | Carrier is outside acceptance limits. |

Glossary

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

Method Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

| Method | Method Description | Protocol | Laboratory |
|------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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



Sample Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------------|--------|----------------|----------------|----------|
| 160-34213-7 | SC_10 430431 | Water | 05/15/19 09:18 | 05/17/19 09:20 | |
| 160-34213-8 | SC_11 430432 | Water | 05/15/19 09:58 | 05/17/19 09:20 | |
| 160-34213-9 | SC_12 430433 | Water | 05/15/19 11:14 | 05/17/19 09:20 | |
| 160-34213-10 | SC_12 duplicate 430434 | Water | 05/15/19 11:14 | 05/17/19 09:20 | |
| 160-34213-11 | SC_13 430435 | Water | 05/15/19 12:22 | 05/17/19 09:20 | |
| 160-34213-12 | SC_14 430436 | Water | 05/15/19 13:00 | 05/17/19 09:20 | |

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Client Sample ID: SC_10 430431

Lab Sample ID: 160-34213-7

Date Collected: 05/15/19 09:18

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.261 | | 0.0936 | 0.0965 | 1.00 | 0.0960 | pCi/L | 06/07/19 10:27 | 08/07/19 14:16 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.4 | | 40 - 110 | | | | | 06/07/19 10:27 | 08/07/19 14:16 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.03 | | 0.352 | 0.365 | 1.00 | 0.484 | pCi/L | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.4 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Y Carrier | 80.0 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |

Client Sample ID: SC_11 430432

Lab Sample ID: 160-34213-8

Date Collected: 05/15/19 09:58

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.446 | | 0.117 | 0.124 | 1.00 | 0.105 | pCi/L | 06/07/19 10:27 | 08/07/19 14:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | 06/07/19 10:27 | 08/07/19 14:17 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.39 | | 0.335 | 0.359 | 1.00 | 0.389 | pCi/L | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.7 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |

Client Sample ID: SC_12 430433

Lab Sample ID: 160-34213-9

Date Collected: 05/15/19 11:14

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.152 | | 0.0805 | 0.0816 | 1.00 | 0.103 | pCi/L | 06/07/19 10:27 | 08/07/19 16:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 125 | X | 40 - 110 | | | | | 06/07/19 10:27 | 08/07/19 16:50 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Client Sample ID: SC_12 430433

Lab Sample ID: 160-34213-9

Date Collected: 05/15/19 11:14

Matrix: Water

Date Received: 05/17/19 09:20

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.265 | U | 0.236 | 0.237 | 1.00 | 0.377 | pCi/L | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 125 | X | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Y Carrier | 77.8 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:50 | 1 |

Client Sample ID: SC_12 duplicate 430434

Lab Sample ID: 160-34213-10

Date Collected: 05/15/19 11:14

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.136 | | 0.0771 | 0.0781 | 1.00 | 0.103 | pCi/L | 06/07/19 10:27 | 08/07/19 16:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 06/07/19 10:27 | 08/07/19 16:50 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.525 | | 0.262 | 0.266 | 1.00 | 0.387 | pCi/L | 06/07/19 11:36 | 07/10/19 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:52 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:52 | 1 |

Client Sample ID: SC_13 430435

Lab Sample ID: 160-34213-11

Date Collected: 05/15/19 12:22

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0903 | U | 0.0659 | 0.0664 | 1.00 | 0.0932 | pCi/L | 06/07/19 10:27 | 08/07/19 16:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.4 | | 40 - 110 | | | | | 06/07/19 10:27 | 08/07/19 16:50 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0841 | U | 0.256 | 0.256 | 1.00 | 0.443 | pCi/L | 06/07/19 11:36 | 07/10/19 11:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.4 | | 40 - 110 | | | | | 06/07/19 11:36 | 07/10/19 11:52 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Client Sample ID: SC_13 430435

Lab Sample ID: 160-34213-11

Date Collected: 05/15/19 12:22

Matrix: Water

Date Received: 05/17/19 09:20

Method: 904.0 - Radium-228 (GFPC) (Continued)

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|----------|----------------|----------------|---------|
| Y Carrier | 86.7 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:52 | 1 |

Client Sample ID: SC_14 430436

Lab Sample ID: 160-34213-12

Date Collected: 05/15/19 13:00

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-226 | 0.232 | | 0.0858 | 0.0883 | 1.00 | 0.0896 | pCi/L | 06/07/19 10:27 | 08/07/19 16:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 101 | | 40 - 110 | 06/07/19 10:27 | 08/07/19 16:51 | 1 | | | | |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-228 | 0.546 | | 0.258 | 0.263 | 1.00 | 0.373 | pCi/L | 06/07/19 11:36 | 07/10/19 11:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 101 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:54 | 1 | | | | |
| Y Carrier | 83.0 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:54 | 1 | | | | |

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-431147/23-A
Matrix: Water
Analysis Batch: 438879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|----------------|----------|----------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.01897 | U | 0.0558 | 0.0559 | 1.00 | 0.103 | pCi/L | 06/07/19 10:27 | 08/08/19 11:37 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | %Yield | Qualifier | | Prepared | Analyzed | | | | | |
| Ba Carrier | 92.7 | | 40 - 110 | 06/07/19 10:27 | 08/08/19 11:37 | 1 | | | | |

Lab Sample ID: LCS 160-431147/1-A
Matrix: Water
Analysis Batch: 438686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|----------------|----------|----------|---------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.4 | 9.870 | | 1.01 | 1.00 | 0.0948 | pCi/L | 87 | 75 - 125 |
| Carrier | LCS LCS | | Limits | | | Prepared | Analyzed | Dil Fac | |
| Ba Carrier | %Yield | Qualifier | | Prepared | Analyzed | | | | |
| Ba Carrier | 104 | | 40 - 110 | 06/07/19 10:27 | 08/08/19 11:37 | 1 | | | |

Lab Sample ID: LCSD 160-431147/2-A
Matrix: Water
Analysis Batch: 438686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits | RER | Limit |
|------------|-------------|-------------|-----------|-----------------|----------------|----------|----------|---------|--------------|------|-------|
| | | | | Uncert. (2σ+/-) | | | | | | | |
| Radium-226 | 11.4 | 11.00 | | 1.13 | 1.00 | 0.113 | pCi/L | 97 | 75 - 125 | 0.53 | 1 |
| Carrier | LCSD LCSD | | Limits | | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | %Yield | Qualifier | | Prepared | Analyzed | | | | | | |
| Ba Carrier | 89.3 | | 40 - 110 | 06/07/19 10:27 | 08/08/19 11:37 | 1 | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-431164/23-A
Matrix: Water
Analysis Batch: 434371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|-----------------|-----------------|----------------|----------|----------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | -0.02471 | U | 0.253 | 0.253 | 1.00 | 0.457 | pCi/L | 06/07/19 11:36 | 07/10/19 11:59 | 1 |
| Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | %Yield | Qualifier | | Prepared | Analyzed | | | | | |
| Ba Carrier | 92.7 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:59 | 1 | | | | |
| Y Carrier | MB MB | | Limits | | | Prepared | Analyzed | Dil Fac | | |
| Y Carrier | %Yield | Qualifier | | Prepared | Analyzed | | | | | |
| Y Carrier | 81.9 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:59 | 1 | | | | |

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-431164/1-A
Matrix: Water
Analysis Batch: 434381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.04 | 8.830 | | 1.05 | 1.00 | 0.412 | pCi/L | 98 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|------------|---------------|----------|
| Ba Carrier | 104 | | 40 - 110 |
| Y Carrier | 76.6 | | 40 - 110 |

Lab Sample ID: LCSD 160-431164/2-A
Matrix: Water
Analysis Batch: 434381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 9.04 | 8.320 | | 1.05 | 1.00 | 0.562 | pCi/L | 92 | 75 - 125 | 0.24 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|-------------|----------------|----------|
| Ba Carrier | 89.3 | | 40 - 110 |
| Y Carrier | 78.5 | | 40 - 110 |

QC Association Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Rad

Prep Batch: 431147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 160-34213-7 | SC_10 430431 | Total/NA | Water | PrecSep-21 | |
| 160-34213-8 | SC_11 430432 | Total/NA | Water | PrecSep-21 | |
| 160-34213-9 | SC_12 430433 | Total/NA | Water | PrecSep-21 | |
| 160-34213-10 | SC_12 duplicate 430434 | Total/NA | Water | PrecSep-21 | |
| 160-34213-11 | SC_13 430435 | Total/NA | Water | PrecSep-21 | |
| 160-34213-12 | SC_14 430436 | Total/NA | Water | PrecSep-21 | |
| MB 160-431147/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-431147/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-431147/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 431164

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 160-34213-7 | SC_10 430431 | Total/NA | Water | PrecSep_0 | |
| 160-34213-8 | SC_11 430432 | Total/NA | Water | PrecSep_0 | |
| 160-34213-9 | SC_12 430433 | Total/NA | Water | PrecSep_0 | |
| 160-34213-10 | SC_12 duplicate 430434 | Total/NA | Water | PrecSep_0 | |
| 160-34213-11 | SC_13 430435 | Total/NA | Water | PrecSep_0 | |
| 160-34213-12 | SC_14 430436 | Total/NA | Water | PrecSep_0 | |
| MB 160-431164/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-431164/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-431164/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Tracer/Carrier Summary

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|------------------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba Carrier (40-110) | |
| 160-34213-7 | SC_10 430431 | 92.4 | |
| 160-34213-8 | SC_11 430432 | 92.7 | |
| 160-34213-9 | SC_12 430433 | 125 X | |
| 160-34213-10 | SC_12 duplicate 430434 | 101 | |
| 160-34213-11 | SC_13 430435 | 90.4 | |
| 160-34213-12 | SC_14 430436 | 101 | |
| LCS 160-431147/1-A | Lab Control Sample | 104 | |
| LCSD 160-431147/2-A | Lab Control Sample Dup | 89.3 | |
| MB 160-431147/23-A | Method Blank | 92.7 | |
| Tracer/Carrier Legend | | | |
| Ba Carrier = Ba Carrier | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | Percent Yield (Acceptance Limits) | |
|------------------------------|------------------------|-----------------------------------|-----------------------|
| Lab Sample ID | Client Sample ID | Ba Carrier (40-110) | Y Carrier (40-110) |
| 160-34213-7 | SC_10 430431 | 92.4 | 80.0 |
| 160-34213-8 | SC_11 430432 | 92.7 | 80.7 |
| 160-34213-9 | SC_12 430433 | 125 X | 77.8 |
| 160-34213-10 | SC_12 duplicate 430434 | 101 | 85.2 |
| 160-34213-11 | SC_13 430435 | 90.4 | 86.7 |
| 160-34213-12 | SC_14 430436 | 101 | 83.0 |
| LCS 160-431164/1-A | Lab Control Sample | 104 | 76.6 |
| LCSD 160-431164/2-A | Lab Control Sample Dup | 89.3 | 78.5 |
| MB 160-431164/23-A | Method Blank | 92.7 | 81.9 |
| Tracer/Carrier Legend | | | |
| Ba Carrier = Ba Carrier | | | |
| Y Carrier = Y Carrier | | | |

ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-34213-1

Client Project/Site: Monitoring Wells_CCR Assessment

For:

Colorado Springs Utilities
Laboratory Services Section
701 E. Las Vegas St., MC 1465
Colorado Springs, Colorado 80903

Attn: Ms. Wendy Asay

Rhonda Ridenhower

Authorized for release by:
8/14/2019 1:36:09 PM

Rhonda Ridenhower, Manager of Project Management
rhonda.ridenhower@testamericainc.com

Designee for

Chenise Lambert-Sykes, Project Manager I
(314)298-8566
chenise.lambert-sykes@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Chain of Custody | 5 |
| Receipt Checklists | 7 |
| Definitions/Glossary | 8 |
| Method Summary | 9 |
| Sample Summary | 10 |
| Client Sample Results | 11 |
| QC Sample Results | 14 |
| QC Association Summary | 17 |
| Tracer Carrier Summary | 18 |

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Job ID: 160-34213-1

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Colorado Springs Utilities

Project: Monitoring Wells_CCR Assessment

Report Number: 160-34213-1

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

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 05/17/2019; the samples arrived in good condition, properly preserved. The temperature of the coolers at receipt was 17.0 C.

RADIUM-226 (GFPC)

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Job ID: 160-34213-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

Samples CC_1 430424 (160-34213-1), FC_1 430425 (160-34213-2), FC_2 430426 (160-34213-3), FC_3A 430427 (160-34213-4), FC_3A duplicate 430428 (160-34213-5) and FC_3B 430429 (160-34213-6) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were prepared on 06/07/2019 and analyzed on 08/07/2019, 08/10/2019 and 08/12/2019.

Insufficient sample volume was available to perform a sample duplicate for the following samples: FC_3B 430429 (160-34213-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

RADIUM-228 (GFPC)

Samples CC_1 430424 (160-34213-1), FC_1 430425 (160-34213-2), FC_2 430426 (160-34213-3), FC_3A 430427 (160-34213-4), FC_3A duplicate 430428 (160-34213-5) and FC_3B 430429 (160-34213-6) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 06/07/2019 and analyzed on 07/10/2019 and 07/19/2019.

Insufficient sample volume was available to perform a sample duplicate for the following samples: FC_3B 430429 (160-34213-6). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

The daily beta check on the day of count (7/19) of the sample was inadvertently missed. The checks both the day of use before (7/18) and the day of use after (7/22) were within limits, demonstrating acceptable performance. In addition, one of the sample counts on the detector on (7/19) was another batch's laboratory control sample (LCS), which exhibited acceptable LCS recovery, further demonstrating acceptable detector performance. The laboratory does not believe this excursion adversely affects the data. FC_3A 430427 (160-34213-4)

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

Regulatory Program: IDW NPDES RCRA Other:

Client Contact
Colorado Springs Utilities
701 E. Las Vegas St.
Colorado Springs, CO 80903
(719) 668-4603 Phone
(xxx) xxx-xxxx FAX
Project Name: CCR Assessment
Site:
P O #

Project Manager: Wendy Asay
Tel/Fax: 719-668-4603

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below _____
 2 weeks
 1 week
 2 days
 1 day

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS/MSD (Y/N) | Lab Contact: | Site Contact: | Date: | Carrier: | COC No. of COCs |
|------------------------|-------------|-------------|------------------------------|--------|------------|-----------------------|----------------------|-----------------------|---------------|-------|----------|-----------------|
| CC_1 430424 | 5/14/19 | 1147 | G | GW | 2 | Y | X | Radium 228, EPA 904.0 | | | | |
| FC_1 430425 | 5/14/19 | 0930 | G | GW | 2 | Y | X | Radium 226, EPA 903.1 | | | | |
| FC_2 430426 | 5/14/19 | 1013 | G | GW | 2 | Y | X | | | | | |
| FC_3A 430427 | 5/14/19 | 1250 | G | GW | 2 | N | X | | | | | |
| FC_3A duplicate 430428 | 5/14/19 | 1250 | G | GW | 2 | N | X | | | | | |
| FC_3B 430429 | 5/14/19 | 1332 | G | GW | 2 | Y | X | | | | | |



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: Yes No

Relinquished by: *Mcquell Campbell* Company: *CSU* Date/Time: *5-14-19 1330*

Relinquished by: _____ Company: _____ Date/Time: _____

Relinquished by: _____ Company: _____ Date/Time: _____

Received by: *Wendy Asay* Company: *TestAmerica* Date/Time: *5-17-19/0920*

Received by: _____ Company: _____ Date/Time: _____

Received in Laboratory by: _____ Date/Time: _____

Therm ID No.: _____ Cooler Temp. (°C): Obs'd: _____



Login Sample Receipt Checklist

Client: Colorado Springs Utilities

Job Number: 160-34213-1

Login Number: 34213

List Source: Eurofins TestAmerica, St. Louis

List Number: 1

Creator: Korrinhizer, Micha L

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

Definitions/Glossary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Qualifiers

Rad

| Qualifier | Qualifier Description |
|-----------|-------------------------------------------------|
| U | Result is less than the sample detection limit. |

Glossary

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

Method Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

| Method | Method Description | Protocol | Laboratory |
|------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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



Sample Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------------|--------|----------------|----------------|----------|
| 160-34213-1 | CC_1 430424 | Water | 05/14/19 11:47 | 05/17/19 09:20 | |
| 160-34213-2 | FC_1 430425 | Water | 05/14/19 09:30 | 05/17/19 09:20 | |
| 160-34213-3 | FC_2 430426 | Water | 05/14/19 10:13 | 05/17/19 09:20 | |
| 160-34213-4 | FC_3A 430427 | Water | 05/14/19 12:50 | 05/17/19 09:20 | |
| 160-34213-5 | FC_3A duplicate 430428 | Water | 05/14/19 12:50 | 05/17/19 09:20 | |
| 160-34213-6 | FC_3B 430429 | Water | 05/14/19 13:32 | 05/17/19 09:20 | |

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Client Sample ID: CC_1 430424

Lab Sample ID: 160-34213-1

Date Collected: 05/14/19 11:47

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0666 | U | 0.0747 | 0.0749 | 1.00 | 0.121 | pCi/L | 06/07/19 07:24 | 08/12/19 10:53 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.6 | | 40 - 110 | | | | | 06/07/19 07:24 | 08/12/19 10:53 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.595 | | 0.387 | 0.391 | 1.00 | 0.593 | pCi/L | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 76.6 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Y Carrier | 69.2 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |

Client Sample ID: FC_1 430425

Lab Sample ID: 160-34213-2

Date Collected: 05/14/19 09:30

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.118 | | 0.0733 | 0.0741 | 1.00 | 0.0981 | pCi/L | 06/07/19 07:24 | 08/10/19 12:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.1 | | 40 - 110 | | | | | 06/07/19 07:24 | 08/10/19 12:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0821 | U | 0.289 | 0.289 | 1.00 | 0.506 | pCi/L | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.1 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Y Carrier | 68.8 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |

Client Sample ID: FC_2 430426

Lab Sample ID: 160-34213-3

Date Collected: 05/14/19 10:13

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.191 | | 0.0929 | 0.0945 | 1.00 | 0.121 | pCi/L | 06/07/19 07:24 | 08/10/19 12:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 40 - 110 | | | | | 06/07/19 07:24 | 08/10/19 12:54 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Client Sample ID: FC_2 430426

Lab Sample ID: 160-34213-3

Date Collected: 05/14/19 10:13

Matrix: Water

Date Received: 05/17/19 09:20

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.152 | U | 0.325 | 0.326 | 1.00 | 0.558 | pCi/L | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |
| Y Carrier | 64.3 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:28 | 1 |

Client Sample ID: FC_3A 430427

Lab Sample ID: 160-34213-4

Date Collected: 05/14/19 12:50

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0252 | U | 0.0556 | 0.0556 | 1.00 | 0.100 | pCi/L | 06/07/19 07:24 | 08/10/19 13:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 40 - 110 | | | | | 06/07/19 07:24 | 08/10/19 13:06 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.459 | U | 0.408 | 0.410 | 1.00 | 0.656 | pCi/L | 06/07/19 08:17 | 07/19/19 12:31 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:31 | 1 |
| Y Carrier | 60.6 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:31 | 1 |

Client Sample ID: FC_3A duplicate 430428

Lab Sample ID: 160-34213-5

Date Collected: 05/14/19 12:50

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|--------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0395 | U | 0.0556 | 0.0557 | 1.00 | 0.0942 | pCi/L | 06/07/19 07:24 | 08/10/19 14:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 98.9 | | 40 - 110 | | | | | 06/07/19 07:24 | 08/10/19 14:51 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.274 | U | 0.301 | 0.302 | 1.00 | 0.494 | pCi/L | 06/07/19 08:17 | 07/19/19 12:31 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 98.9 | | 40 - 110 | | | | | 06/07/19 08:17 | 07/19/19 12:31 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Client Sample ID: FC_3A duplicate 430428

Lab Sample ID: 160-34213-5

Date Collected: 05/14/19 12:50

Matrix: Water

Date Received: 05/17/19 09:20

Method: 904.0 - Radium-228 (GFPC) (Continued)

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|----------|----------------|----------------|---------|
| Y Carrier | 68.8 | | 40 - 110 | 06/07/19 08:17 | 07/19/19 12:31 | 1 |

Client Sample ID: FC_3B 430429

Lab Sample ID: 160-34213-6

Date Collected: 05/14/19 13:32

Matrix: Water

Date Received: 05/17/19 09:20

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-226 | 0.000 | U | 0.0426 | 0.0426 | 1.00 | 0.0884 | pCi/L | 06/07/19 10:27 | 08/07/19 14:16 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 96.6 | | 40 - 110 | 06/07/19 10:27 | 08/07/19 14:16 | 1 | | | | |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-228 | 0.171 | U | 0.303 | 0.304 | 1.00 | 0.512 | pCi/L | 06/07/19 11:36 | 07/10/19 11:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 96.6 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:50 | 1 | | | | |
| Y Carrier | 76.6 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:50 | 1 | | | | |

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-431125/23-A
Matrix: Water
Analysis Batch: 439116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431125

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.03539 | U | 0.0538 | 0.0539 | 1.00 | 0.0926 | pCi/L | 06/07/19 07:24 | 08/10/19 14:51 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 101 | | 40 - 110 | | 06/07/19 07:24 | 08/10/19 14:51 | 1 | | | |

Lab Sample ID: LCS 160-431125/1-A
Matrix: Water
Analysis Batch: 439048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431125

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|--------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.4 | 9.581 | | 1.01 | 1.00 | 0.0926 | pCi/L | 84 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 91.2 | | 40 - 110 | | | | | | |

Lab Sample ID: MB 160-431147/23-A
Matrix: Water
Analysis Batch: 438879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.01897 | U | 0.0558 | 0.0559 | 1.00 | 0.103 | pCi/L | 06/07/19 10:27 | 08/08/19 11:37 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 92.7 | | 40 - 110 | | 06/07/19 10:27 | 08/08/19 11:37 | 1 | | | |

Lab Sample ID: LCS 160-431147/1-A
Matrix: Water
Analysis Batch: 438686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------|------|--------|-------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.4 | 9.870 | | 1.01 | 1.00 | 0.0948 | pCi/L | 87 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 104 | | 40 - 110 | | | | | | |

Lab Sample ID: LCSD 160-431147/2-A
Matrix: Water
Analysis Batch: 438686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431147

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------|------|-------|-------|------|--------------|------|-----------|
| | | | | Uncert. (2σ+/-) | | | | | | 0.53 | 1 |
| Radium-226 | 11.4 | 11.00 | | 1.13 | 1.00 | 0.113 | pCi/L | 97 | 75 - 125 | 0.53 | 1 |

Eurofins TestAmerica, St. Louis

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-431147/2-A
Matrix: Water
Analysis Batch: 438686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431147

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|-------------|----------------|----------|
| Ba Carrier | 89.3 | | 40 - 110 |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-431128/23-A
Matrix: Water
Analysis Batch: 435708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431128

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.08967 | U | 0.295 | 0.295 | 1.00 | 0.540 | pCi/L | 06/07/19 08:17 | 07/19/19 12:31 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 101 | | 40 - 110 | 06/07/19 08:17 | 07/19/19 12:31 | 1 |
| Y Carrier | 66.2 | | 40 - 110 | 06/07/19 08:17 | 07/19/19 12:31 | 1 |

Lab Sample ID: LCS 160-431128/1-A
Matrix: Water
Analysis Batch: 435710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431128

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.01 | 10.71 | | 1.28 | 1.00 | 0.494 | pCi/L | 119 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|------------|---------------|----------|
| Ba Carrier | 91.2 | | 40 - 110 |
| Y Carrier | 75.1 | | 40 - 110 |

Lab Sample ID: MB 160-431164/23-A
Matrix: Water
Analysis Batch: 434371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.02471 | U | 0.253 | 0.253 | 1.00 | 0.457 | pCi/L | 06/07/19 11:36 | 07/10/19 11:59 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 92.7 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:59 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | 06/07/19 11:36 | 07/10/19 11:59 | 1 |

Lab Sample ID: LCS 160-431164/1-A
Matrix: Water
Analysis Batch: 434381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 9.04 | 8.830 | | 1.05 | 1.00 | 0.412 | pCi/L | 98 | 75 - 125 |

Eurofins TestAmerica, St. Louis

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-431164/1-A
Matrix: Water
Analysis Batch: 434381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431164

| Carrier | LCS | LCS | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 104 | | 40 - 110 |
| Y Carrier | 76.6 | | 40 - 110 |

Lab Sample ID: LCSD 160-431164/2-A
Matrix: Water
Analysis Batch: 434381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431164

| Analyte | Spike Added | LCSD | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. | RER | RER |
|------------|-------------|--------|------|-----------------|------|-------|-------|------|----------|------|-------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | | Limit |
| Radium-228 | 9.04 | 8.320 | | 1.05 | 1.00 | 0.562 | pCi/L | 92 | 75 - 125 | 0.24 | 1 |

| Carrier | LCSD | LCSD | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 89.3 | | 40 - 110 |
| Y Carrier | 78.5 | | 40 - 110 |

QC Association Summary

Client: Colorado Springs Utilities
Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Rad

Prep Batch: 431125

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 160-34213-1 | CC_1 430424 | Total/NA | Water | PrecSep-21 | |
| 160-34213-2 | FC_1 430425 | Total/NA | Water | PrecSep-21 | |
| 160-34213-3 | FC_2 430426 | Total/NA | Water | PrecSep-21 | |
| 160-34213-4 | FC_3A 430427 | Total/NA | Water | PrecSep-21 | |
| 160-34213-5 | FC_3A duplicate 430428 | Total/NA | Water | PrecSep-21 | |
| MB 160-431125/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-431125/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 431128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 160-34213-1 | CC_1 430424 | Total/NA | Water | PrecSep_0 | |
| 160-34213-2 | FC_1 430425 | Total/NA | Water | PrecSep_0 | |
| 160-34213-3 | FC_2 430426 | Total/NA | Water | PrecSep_0 | |
| 160-34213-4 | FC_3A 430427 | Total/NA | Water | PrecSep_0 | |
| 160-34213-5 | FC_3A duplicate 430428 | Total/NA | Water | PrecSep_0 | |
| MB 160-431128/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-431128/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Prep Batch: 431147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 160-34213-6 | FC_3B 430429 | Total/NA | Water | PrecSep-21 | |
| MB 160-431147/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-431147/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-431147/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 431164

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 160-34213-6 | FC_3B 430429 | Total/NA | Water | PrecSep_0 | |
| MB 160-431164/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-431164/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-431164/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Tracer/Carrier Summary

Client: Colorado Springs Utilities
 Project/Site: Monitoring Wells_CCR Assessment

Job ID: 160-34213-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | | Percent Yield (Acceptance Limits) | | | |
|------------------------------|------------------------|------------------------|-----------------------------------|--|--|--|
| Lab Sample ID | Client Sample ID | Ba Carrier (40-110) | | | | |
| 160-34213-1 | CC_1 430424 | 76.6 | | | | |
| 160-34213-2 | FC_1 430425 | 94.1 | | | | |
| 160-34213-3 | FC_2 430426 | 91.8 | | | | |
| 160-34213-4 | FC_3A 430427 | 91.8 | | | | |
| 160-34213-5 | FC_3A duplicate 430428 | 98.9 | | | | |
| 160-34213-6 | FC_3B 430429 | 96.6 | | | | |
| LCS 160-431125/1-A | Lab Control Sample | 91.2 | | | | |
| LCS 160-431147/1-A | Lab Control Sample | 104 | | | | |
| LCSD 160-431147/2-A | Lab Control Sample Dup | 89.3 | | | | |
| MB 160-431125/23-A | Method Blank | 101 | | | | |
| MB 160-431147/23-A | Method Blank | 92.7 | | | | |
| Tracer/Carrier Legend | | | | | | |
| Ba Carrier = Ba Carrier | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | | | | Percent Yield (Acceptance Limits) | | | |
|------------------------------|------------------------|------------------------|-----------------------|--|-----------------------------------|--|--|--|
| Lab Sample ID | Client Sample ID | Ba Carrier (40-110) | Y Carrier (40-110) | | | | | |
| 160-34213-1 | CC_1 430424 | 76.6 | 69.2 | | | | | |
| 160-34213-2 | FC_1 430425 | 94.1 | 68.8 | | | | | |
| 160-34213-3 | FC_2 430426 | 91.8 | 64.3 | | | | | |
| 160-34213-4 | FC_3A 430427 | 91.8 | 60.6 | | | | | |
| 160-34213-5 | FC_3A duplicate 430428 | 98.9 | 68.8 | | | | | |
| 160-34213-6 | FC_3B 430429 | 96.6 | 76.6 | | | | | |
| LCS 160-431128/1-A | Lab Control Sample | 91.2 | 75.1 | | | | | |
| LCS 160-431164/1-A | Lab Control Sample | 104 | 76.6 | | | | | |
| LCSD 160-431164/2-A | Lab Control Sample Dup | 89.3 | 78.5 | | | | | |
| MB 160-431128/23-A | Method Blank | 101 | 66.2 | | | | | |
| MB 160-431164/23-A | Method Blank | 92.7 | 81.9 | | | | | |
| Tracer/Carrier Legend | | | | | | | | |
| Ba Carrier = Ba Carrier | | | | | | | | |
| Y Carrier = Y Carrier | | | | | | | | |



Colorado Springs Utilities

It's how we're all connected

LABORATORY SERVICES

719-448-4800

www.csu.org

Report Date: December 27, 2019

This report contains test results for the following samples:

| | | |
|--------|-------------------|------------------------|
| 436493 | 24-Sep-2019 11:45 | Crooked Canyon Well #1 |
| 436494 | 24-Sep-2019 09:39 | Fort Carson Well #1 |
| 436495 | 24-Sep-2019 09:39 | Fort Carson Well #1 |
| 436496 | 24-Sep-2019 10:11 | Fort Carson Well #2 |
| 436497 | 24-Sep-2019 12:58 | Fort Carson Well #3A |
| 436498 | 24-Sep-2019 13:33 | Fort Carson Well #3B |
| 436499 | 24-Sep-2019 11:20 | Equipment Blank |
| 436500 | 25-Sep-2019 09:17 | Sand Canyon Well #10 |
| 436501 | 25-Sep-2019 09:51 | Sand Canyon Well #11 |
| 436502 | 25-Sep-2019 10:29 | Sand Canyon Well #12 |
| 436503 | 25-Sep-2019 11:15 | Sand Canyon Well #13 |
| 436504 | 25-Sep-2019 11:15 | Sand Canyon Well #13 |
| 436505 | 25-Sep-2019 11:53 | Sand Canyon Well #14 |
| 436506 | 25-Sep-2019 10:44 | Equipment Blank |

Colorado Springs Utilities Laboratory Services Section certifies that the test results meet all approved method
And Laboratory's Quality Assurance Plan requirements unless otherwise noted.

Comments: _____

Report Approved By: _____

Wendy M. Asay - Environmental Specialist

12-27-19

Date

Sample Site: Crooked Canyon Well #1
Site Identity: CC_1
Sample Number: 436493
Date/Time Sampled: 24-SEP-2019 11:45
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 33200 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.53 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 1580 | mg/L | 0.25 | D |
| | Sulfate | 20700 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.005 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1050 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 400000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 722 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 8.1 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 4.1 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 3.6 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.72 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 0.67 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 190 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 13.36 | ft. | | |
| + SM_2510_B | Conductivity | 26500 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 12.5 | degrees C | | |
| + SM_4500HB | pH | 7.0 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.364 | pCi/L | 0.178 | J |
| | Radium 226 (Dissolved) | 0.326 | pCi/L | 0.104 | J |
| * EPA_904_0 | Radium 228 | 1.08 | pCi/L | 0.62 | |

Sample Site: Fort Carson Well #1
Site Identity: FC_1
Sample Number: 436494
Date/Time Sampled: 24-SEP-2019 09:39
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 22200 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.20 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 810 | mg/L | 0.25 | D |
| | Sulfate | 13300 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 960 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 371000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 972 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 3.1 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 7.3 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 1.6 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 17.3 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 14.90 | ft. | | |
| + SM_2510_B | Conductivity | 21400 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.2 | degrees C | | |
| + SM_4500HB | pH | 7.1 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.647 | pCi/L | 0.147 | J |
| | Radium 226 (Dissolved) | 0.315 | pCi/L | 0.134 | J |
| * EPA_904_0 | Radium 228 | 0.981 | pCi/L | 0.655 | J |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | 0.780 | pCi/L | 0.491 | J |

| Method | Analyte | Result | Units | RL | Qualifier |
|--------|---------|--------|-------|------|-----------|
| 0101 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0102 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0103 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0104 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0105 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0106 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0107 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0108 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0109 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0110 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0111 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0112 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0113 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0114 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0115 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0116 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0117 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0118 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0119 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0120 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0121 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0122 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0123 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0124 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0125 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0126 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0127 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0128 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0129 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0130 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0131 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0132 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0133 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0134 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0135 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0136 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0137 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0138 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0139 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0140 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0141 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0142 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0143 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0144 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0145 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0146 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0147 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0148 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0149 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0150 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0151 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0152 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0153 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0154 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0155 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0156 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0157 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0158 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0159 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0160 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0161 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0162 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0163 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0164 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0165 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0166 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0167 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0168 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0169 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0170 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0171 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0172 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0173 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0174 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0175 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0176 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0177 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0178 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0179 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0180 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0181 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0182 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0183 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0184 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0185 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0186 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0187 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0188 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0189 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0190 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0191 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0192 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0193 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0194 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0195 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0196 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0197 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0198 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0199 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0200 | 0.00 | 0.00 | 0.00 | 0.00 | |

Sample Site: Fort Carson Well #1
Site Identity: FC_1
Sample Number: 436495
Date/Time Sampled: 24-SEP-2019 09:39
Comp/Grab: GRAB
Sample Comments: FC_1 duplicate

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 22200 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.19 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 812 | mg/L | 0.25 | D |
| | Sulfate | 13200 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 978 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 366000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 967 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 2.8 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 7.3 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.3 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 1.7 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 16.0 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.484 | pCi/L | 0.183 | J |
| | Radium 226 (Dissolved) | 0.405 | pCi/L | 0.111 | J |
| * EPA_904_0 | Radium 228 | 1.06 | pCi/L | 0.67 | |
| | Radium 228 (Dissolved) | 1.29 | pCi/L | 0.49 | |

Sample Site: Fort Carson Well #2
Site Identity: FC_2
Sample Number: 436496
Date/Time Sampled: 24-SEP-2019 10:11
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 10600 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.72 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 116 | mg/L | 0.25 | D |
| | Sulfate | 7130 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.005 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 948 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 374000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 274 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D1/D |
| | Barium (Total Recoverable) | 5.6 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D/D1 |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 3.5 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 1.4 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 2.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 37.6 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 13.71 | ft. | | |
| + SM_2510_B | Conductivity | 10000 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.0 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | <0.182 | pCi/L | 0.182 | U |
| | Radium 226 (Dissolved) | <0.089 | pCi/L | 0.089 | U |
| * EPA_904_0 | Radium 228 | <0.739 | pCi/L | 0.739 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|---------------|------------------------|---------------|--------------|-----------|------------------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.494 | pCi/L | 0.494 | U |

Sample Site: Fort Carson Well #3A
Site Identity: FC_3A
Sample Number: 436497
Date/Time Sampled: 24-SEP-2019 12:58
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 9220 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.59 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 127 | mg/L | 0.25 | D |
| | Sulfate | 5770 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.008 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1070 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 379000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 303 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.6 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 27.6 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D/D1 |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 5.4 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 1.8 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 6.6 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 39.9 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 18.34 | ft. | | |
| + SM_2510_B | Conductivity | 9080 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.2 | degrees C | | |
| + SM_4500HB | pH | 7.4 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.209 | pCi/L | 0.161 | J |
| | Radium 226 (Dissolved) | <0.111 | pCi/L | 0.111 | U |
| * EPA_904_0 | Radium 228 | <0.678 | pCi/L | 0.678 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.494 | pCi/L | 0.494 | U |

Sample Site: Fort Carson Well #3B
 Site Identity: FC_3B
 Sample Number: 436498
 Date/Time Sampled: 24-SEP-2019 13:33
 Comp/Grab: GRAB
 Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 7860 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.72 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 220 | mg/L | 0.25 | D |
| | Sulfate | 4440 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.005 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1420 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 201000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 284 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 4.4 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 26.8 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 8.9 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 1.2 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 2.0 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 11.5 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 17.57 | ft. | | |
| + SM_2510_B | Conductivity | 9250 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.1 | degrees C | | |
| + SM_4500HB | pH | 7.1 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.359 | pCi/L | 0.147 | J |
| | Radium 226 (Dissolved) | 0.279 | pCi/L | 0.078 | J |
| * EPA_904_0 | Radium 228 | <0.662 | pCi/L | 0.662 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.350 | pCi/L | 0.350 | U |

Sample Site: Equipment Blank
Site Identity: EQUIP_BLK
Sample Number: 436499
Date/Time Sampled: 24-SEP-2019 11:20
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | <10 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | <0.10 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | <0.25 | mg/L | 0.25 | |
| | Sulfate | <0.25 | mg/L | 0.25 | |
| EPA_1631 | Mercury (Total) | <0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | <20.0 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | <100 | ug/L | 100 | |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | <10.0 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Barium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Chromium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Molybdenum (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Selenium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | |

Sample Site: Sand Canyon Well #10
Site Identity: SC_10
Sample Number: 436500
Date/Time Sampled: 25-SEP-2019 09:17
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 17500 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.85 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 943 | mg/L | 0.25 | D |
| | Sulfate | 11300 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.010 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1200 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 390000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 669 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 5.1 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 12.4 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.9 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.89 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 3.8 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 170 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 12.62 | ft. | | |
| + SM_2510_B | Conductivity | 17500 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 14.3 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.409 | pCi/L | 0.295 | J |
| | Radium 226 (Dissolved) | <0.119 | pCi/L | 0.119 | U |
| * EPA_904_0 | Radium 228 | <1.08 | pCi/L | 1.08 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.375 | pCi/L | 0.375 | U |

Sample Site: Sand Canyon Well #11
 Site Identity: SC_11
 Sample Number: 436501
 Date/Time Sampled: 25-SEP-2019 09:51
 Comp/Grab: GRAB
 Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 14700 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 0.81 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 1090 | mg/L | 0.25 | D |
| | Sulfate | 7930 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.009 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 2140 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 402000 | ug/L | 100 | D |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 538 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 5.0 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 9.9 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.8 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.59 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 2.8 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 169 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 9.50 | ft. | | |
| + SM_2510_B | Conductivity | 15100 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.8 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | <0.185 | pCi/L | 0.185 | U |
| | Radium 226 (Dissolved) | <0.131 | pCi/L | 0.131 | U |
| * EPA_904_0 | Radium 228 | <0.651 | pCi/L | 0.651 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.571 | pCi/L | 0.571 | U |

Sample Site: Sand Canyon Well #12
Site Identity: SC_12
Sample Number: 436502
Date/Time Sampled: 25-SEP-2019 10:29
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 16600 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 1.37 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 316 | mg/L | 0.25 | D |
| | Sulfate | 10000 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.004 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 3940 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 352000 | ug/L | 100 | D/T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 464 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D1/D |
| | Barium (Total Recoverable) | 7.0 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.3 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.56 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 4.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 13.4 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 10.89 | ft. | | |
| + SM_2510_B | Conductivity | 15900 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 14.5 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.213 | pCi/L | 0.167 | J |
| | Radium 226 (Dissolved) | <0.105 | pCi/L | 0.105 | U |
| * EPA_904_0 | Radium 228 | <0.721 | pCi/L | 0.721 | U |

Sample Site: Sand Canyon Well #13
Site Identity: SC_13
Sample Number: 436503
Date/Time Sampled: 25-SEP-2019 11:15
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 13300 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 1.22 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 180 | mg/L | 0.25 | D |
| | Sulfate | 8280 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.004 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1620 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 368000 | ug/L | 100 | D/T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 353 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | 1.1 | ug/L | 1.0 | D |
| | Barium (Total Recoverable) | 17.4 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 5.0 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.82 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 3.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 14.6 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 11.41 | ft. | | |
| + SM_2510_B | Conductivity | 12300 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 13.2 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | 0.183 | pCi/L | 0.174 | J |
| | Radium 226 (Dissolved) | <0.112 | pCi/L | 0.112 | U |
| * EPA_904_0 | Radium 228 | <0.688 | pCi/L | 0.688 | U |

Sample Site: Sand Canyon Well #13
Site Identity: SC_13
Sample Number: 436504
Date/Time Sampled: 25-SEP-2019 11:15
Comp/Grab: GRAB
Sample Comments: SC_13 duplicate

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 13500 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 1.23 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 180 | mg/L | 0.25 | D |
| | Sulfate | 8350 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.004 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1620 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 372000 | ug/L | 100 | D/T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 356 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D1/D |
| | Barium (Total Recoverable) | 16.2 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.8 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | 0.83 | ug/L | 0.50 | D |
| | Molybdenum (Total Recoverable) | 3.1 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 15.4 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| * EPA_903_0 | Radium 226 | 0.263 | pCi/L | 0.238 | J |
| | Radium 226 (Dissolved) | <0.128 | pCi/L | 0.128 | U |
| * EPA_904_0 | Radium 228 | <0.804 | pCi/L | 0.804 | U |
| | Radium 228 (Dissolved) | <0.409 | pCi/L | 0.409 | U |

Sample Site: Sand Canyon Well #14
Site Identity: SC_14
Sample Number: 436505
Date/Time Sampled: 25-SEP-2019 11:53
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-----------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | 13000 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | 1.08 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | 190 | mg/L | 0.25 | D |
| | Sulfate | 7890 | mg/L | 0.25 | D |
| EPA_1631 | Mercury (Total) | 0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | 1670 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | 359000 | ug/L | 100 | D/T1 |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | 330 | ug/L | 10.0 | D |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | D1/D |
| | Barium (Total Recoverable) | 4.9 | ug/L | 0.20 | D |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | D1/D |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Chromium (Total Recoverable) | 4.1 | ug/L | 1.0 | D |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| | Molybdenum (Total Recoverable) | 8.6 | ug/L | 0.20 | D |
| | Selenium (Total Recoverable) | 4.5 | ug/L | 1.0 | D |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | D1/D |
| NA | Depth to Water | 11.69 | ft. | | |
| + SM_2510_B | Conductivity | 12000 | umhos/cm | 1 | |
| + SM_2550_B | Temperature Centigrade (Field) | 11.6 | degrees C | | |
| + SM_4500HB | pH | 7.3 | SU | 2.0 | |
| * EPA_903_0 | Radium 226 | <0.209 | pCi/L | 0.209 | U |
| | Radium 226 (Dissolved) | <0.117 | pCi/L | 0.117 | U |
| * EPA_904_0 | Radium 228 | <0.591 | pCi/L | 0.591 | U |

| Method | Analyte | Result | Units | RL | Qualifier |
|-------------|------------------------|--------|-------|-------|-----------|
| * EPA_904_0 | Radium 228 (Dissolved) | <0.417 | pCi/L | 0.417 | U |

Sample Site: Equipment Blank
Site Identity: EQUIP_BLK
Sample Number: 436506
Date/Time Sampled: 25-SEP-2019 10:44
Comp/Grab: GRAB
Sample Comments:

| Method | Analyte | Result | Units | RL | Qualifier |
|--------------|--------------------------------|--------|-------|-------|-----------|
| SM_2540_C | Total Dissolved Solids | <10 | mg/L | 10 | |
| ~ SM_4500_FC | Fluoride (Total) | <0.10 | mg/L | 0.10 | |
| EPA_300_0 | Chloride | <0.25 | mg/L | 0.25 | |
| | Sulfate | <0.25 | mg/L | 0.25 | |
| EPA_1631 | Mercury (Total) | <0.002 | ug/L | 0.002 | |
| EPA_200_7 | Boron (Total Recoverable) | <20.0 | ug/L | 20.0 | |
| | Calcium (Total Recoverable) | <100 | ug/L | 100 | |
| | Cobalt (Total Recoverable) | <5.00 | ug/L | 5.00 | |
| | Lithium (Total Recoverable) | <10.0 | ug/L | 10.0 | |
| EPA_200_8 | Antimony (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Arsenic (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Barium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Beryllium (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Cadmium (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Chromium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Lead (Total Recoverable) | <0.50 | ug/L | 0.50 | |
| | Molybdenum (Total Recoverable) | <0.20 | ug/L | 0.20 | |
| | Selenium (Total Recoverable) | <1.0 | ug/L | 1.0 | |
| | Thallium (Total Recoverable) | <0.50 | ug/L | 0.50 | |

Analysis Information:

*: Analysis performed by an external contract laboratory.

+: Analysis performed in the Field.

^: The Reporting Limit for the total analytes is less than two times the method Detection Limit (MDL).

The associated concentration value reported is an approximation of the analyte.

#: Total value is a result of a calculation.

~: Sample was not distilled prior to analysis.

** : This analysis is not listed in 40 CFR Part 136.

Data Qualifiers:

D - Sample required dilution. The associated analyte concentration value reported has dilution factor applied. Reporting Limit does not reflect dilution factor.

D1 - To minimize matrix effects, the sample required dilution. The result is below the Reporting Limit, but within the method defined instrument detection.

J - Analysis confirms the presence of the analyte at a concentration which is less than the established Reporting Limit(RL), but greater than the Method Detection Limit(MDL). The associated concentration value reported is approx.

T1 - The analyte concentration in the sample is disproportionate to the spike level. The performance of the method was shown to be in control.

U - Data result was less than the method detection limit.

CCR Landfill Groundwater Assessment

Sample Date: 9-24-19

QC Report Needed

Sampler: [Signature]

| LOCATION | # Bottles | LIMS # | Sample Time | pH, Field (su) SM 4500 H | Temperature, Field (C) SM 2550 B | Conductivity, Field (umhos/cm) SM 2510 B | Depth to Water (feet) | Fluoride, SM 4500 F C | Total Dissolved Solids, SM 2540 C | Chloride, Sulfate EPA 300 0 | EPA 200.7 (B) Ca, Co & Li - Total (Recoverable) | EPA 200.8 (Sb, As, Ba, Be, Cd, Cr, Pb, Mo, Se & Tl - Total) (Recoverable) | Mercury, EPA 1631 (not collect using clean-hands/dirty-hands) | Total Radium 226 & Radium 228 (Sent to Test America St. Louis) | Dissolved Radium 226 & Radium 228 (Sent to Test America St. Louis) | Comments |
|--------------------|-----------|--------|-------------|--------------------------|----------------------------------|------------------------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------------|-------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------|
| CC_1 | 10 | 436493 | 1145 | 6.88 | 12.5 | 26,500 | 13.36 | X | X | X | X | X | X | X | X | |
| FC_1 | 10 | 436494 | 939 | 7.08 | 13.2 | 21,400 | 14.90 | X | X | X | X | X | X | X | X | |
| FC_1 Duplicate | 10 | 436495 | 939 | | | | | X | X | X | X | X | X | X | X | |
| FC_2 | 10 | 436496 | 1011 | 7.26 | 13.0 | 10,020 | 13.71 | X | X | X | X | X | X | X | X | |
| FC_3A | 10 | 436497 | 1258 | 7.44 | 13.2 | 9,080 | 18.34 | X | X | X | X | X | X | X | X | |
| FC_3B | 10 | 436498 | 1333 | 7.11 | 13.1 | 9,250 | 17.57 | X | X | X | X | X | X | X | X | |
| EQUIP_BLK | 6 | 436499 | 1120 | | | | | X | X | X | X | X | X | X | X | |
| Total # of Bottles | 66 | | | | | | | | | | | | | | | |

F = Field Filtered

Additional Comments / Sample Rejections/ Actions

Sample Template: CCR_LAND
Project ID: CCR_LAND
Test Schedule: CCR_LAND

Relinquished by: [Signature] Date/Time @ 9-24-19 @ 1413

Received by: McSpencer Campbell Date/Time @ 9-24-19 @ 1413

(A) 9/27/19

CCR Landfill Groundwater Assessment
Sample Date: 9-25-19
QC Report Needed

Sampler: Heene

| LOCATION | # Bottles | LIMS # | Sample Time | pH, Field (su) SM 4500 H | Temperature, Field (C) SM 2550 B | Conductivity, Field (umhos/cm) SM 2510 B | Depth to Water (feet) | Fluoride, SM 4500 F C | Total Dissolved Solids, SM 2540 C | Chloride, Sulfate EPA 300 0 | EPA 200 7 (B, Ca, Co & Li - Total Recoverable) | EPA 200 8 (Sb, As, Ba, Be, Cd, Cr, Pb, Mo, Se & Tl - Total Recoverable) | Mercury, EPA 1631 (not collect using clean-hands/dirty-hands) | Total Radium 226 & Radium 228 (Sent to Test America St. Louis) | Dissolved Radium 226 & Radium 228 (Sent to Test America St. Louis) | Comments |
|--------------------|-----------|--------|-------------|--------------------------|----------------------------------|------------------------------------------|-----------------------|-----------------------|-----------------------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------|
| SC_10 | 10 | 436500 | 917 | 7.30 | 14.3 | 17,480 | 12.62 | X | X | X | X | X | X | X | X | |
| SC_11 | 10 | 436501 | 951 | 7.27 | 13.8 | 15,080 | 9.50 | X | X | X | X | X | X | X | X | |
| SC_12 | 10 | 436502 | 1029 | 7.26 | 14.5 | 15,920 | 10.89 | X | X | X | X | X | X | X | X | |
| SC_13 | 10 | 436503 | 1115 | 7.26 | 13.2 | 12,330 | 11.41 | X | X | X | X | X | X | X | X | |
| SC_13 Duplicate | 10 | 436504 | 1115 | | | | | X | X | X | X | X | X | X | X | |
| SC_14 | 10 | 436505 | 1153 | 7.27 | 11.6 | 12,040 | 11.69 | X | X | X | X | X | X | X | X | |
| EQUIP_BLK | 6 | 436506 | 1044 | | | | | X | X | X | X | X | X | X | X | |
| Total # of Bottles | 64 | | | | | | | | | | | | | | | |

F = Field Filtered

Additional Comments / Sample Rejections/ Actions

Sample Template: CCR_LAND
Project ID: CCR_LAND
Test Schedule: CCR_LAND

Signature/Print last name: Heene Date/Time: 9-25-19 @ 12:50
Relinquished by: McSpencer
Received by: compton @ 12:50

9/27/19



Colorado Springs Utilities

It's how we're all connected

Laboratory Services Section QC Report

CCR Landfill Assessment September 2019

Quality Assurance Officer Approval: _____

Date: 12-27-2019

QC Narrative

This report is for sample numbers 436493 - 436506.

Total Dissolved Solids by Standard Methods 2540 C

There are no anomalies to report for this analysis.

Fluoride by Standard Methods 4500 F C

There are no anomalies to report for this analysis.

Anions by EPA Method 300.0

There are no anomalies to report for this analysis.

Mercury by EPA 1631 E

There are no anomalies to report for this analysis.

EPA 200.7

The matrix spike recovery for the sample batch is outside the established range for Total Recoverable Calcium. The performance of the method is shown to be in control. The recovery is matrix related, not method related. Associated samples 436502-436505 are qualified.

EPA 200.8

There are no anomalies to report for this analysis.

Method: Total Dissolved Solids by Standard Methods 2540 C
 Batch Analysis date: 9/25/19
 Sampled date: 9/24/19 for samples 436493 - 436499

Matrix QC performed on sample 436496

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|-----------|------------------------|--------------|----------------------|---------|---------------|
| QCS | Total Dissolved Solids | 103 | 86 - 109 | | |
| Duplicate | Total Dissolved Solids | | | 1 | <10 |

Method: Total Dissolved Solids by Standard Methods 2540 C
 Batch Analysis date: 9/26/19
 Sampled date: 9/25/19 for samples 436500 - 436506

Matrix QC performed on sample 436503

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|-----------|------------------------|--------------|----------------------|---------|---------------|
| QCS | Total Dissolved Solids | 96 | 86 - 109 | | |
| Duplicate | Total Dissolved Solids | | | 1 | <10 |

Method: Fluoride by Standard Methods 4500 F C
 Batch Analysis date: 9/27/19
 Sampled date: 9/24/19 for samples 436493 - 436499

Matrix QC performed on sample 436493

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|------------------|---------------|----------------------|---------|---------------|
| MRL | Fluoride (Total) | 104 | 90 - 110 | | |
| QCS | Fluoride (Total) | 94 | 90 - 110 | | |
| MS | Fluoride (Total) | 89 | 80 - 120 | | |
| MSD | Fluoride (Total) | | | <1 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Fluoride (Total) | <0.10 mg/L | 0.10 mg/L | | |

Method: Fluoride by Standard Methods 4500 F C
 Batch Analysis date: 9/27/19
 Sampled date: 9/25/19 for samples 436500 - 436506

Matrix QC performed on sample 436502

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|------------------|---------------|----------------------|---------|---------------|
| MRL | Fluoride (Total) | 104 | 90 - 110 | | |
| QCS | Fluoride (Total) | 94 | 90 - 110 | | |
| MS | Fluoride (Total) | 97 | 80 - 120 | | |
| MSD | Fluoride (Total) | | | 3 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Fluoride (Total) | <0.10 mg/L | 0.10 mg/L | | |

Method: Anions by EPA Method 300.0

Batch Analysis date: 9/27/19 – 9/28/19, Sample 436503 FD analyzed for sulfate 09/30/19

Sampled date: 9/24/19 for samples 436493 - 436499

Sampled date: 9/25/19 for samples 436500 - 436506

Matrix QC performed on samples 436494 and 436503

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|-------------------|---------------|----------------------|---------|---------------|
| MRL | Chloride | 106 | 50-150 | | |
| LFB | Chloride | 100 | 90-110 | <1 | <20 |
| FD | Chloride (436494) | | | <1 | <20 |
| MS | Chloride (436494) | 92 | 80-120 | | |
| FD | Chloride (436503) | | | <1 | <20 |
| MS | Chloride (436503) | 98 | 80-120 | | |
| MRL | Sulfate | 87 | 50-150 | | |
| LFB | Sulfate | 100 | 90-110 | <1 | <20 |
| FD | Sulfate (436494) | | | <1 | <20 |
| MS | Sulfate (436494) | 107 | 80-120 | | |
| FD | Sulfate (436503) | | | <1 | <20 |
| MS | Sulfate (436503) | 98 | 80-120 | | |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Chloride | <0.25 mg/L | 0.25 mg/L | | |
| LRB | Sulfate | <0.25 mg/L | 0.25 mg/L | | |

Method: Mercury by EPA 1631 E

Batch Analysis date: 10/8/19

Sampled date: 9/24/19 for samples 436493 - 436499

Sampled date: 9/25/19 for samples 439500 - 493506

Matrix QC performed on sample 436494 and 436503

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|--------------------------|---------------|----------------------|---------|---------------|
| MRL | Mercury (Total) | 95 | 50-150 | | |
| QCS | Mercury (Total) | 106 | 77-123 | | |
| MS | Mercury (Total) (436494) | 89 | 71-125 | | |
| MSD | Mercury (Total) (436494) | | | 7 | <24 |
| MS | Mercury (Total) (436503) | 81 | 71-125 | | |
| MSD | Mercury (Total) (436503) | | | 3 | <24 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Mercury (Total) | <0.5 ng/L | 0.5 ng/L | | |

Method: EPA 200.7

Batch Analysis date: 9/30/19 for Calcium and Lithium

Batch Analysis date: 10/1/19 for Boron and Cobalt

Digestion date: 9/26/19

Sampled date: 9/24/19 for samples 436493 - 436499

Sampled date: 9/25/19 for samples 436500 - 436506

Matrix QC performed on sample 436494 for samples 436496-436501 and 436506

Matrix QC performed on sample 436503 for samples 436502-436505

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|--------------------------------------|---------------|----------------------|---------|---------------|
| MRL | Boron (Total Recoverable) | 86 | 50-150 | | |
| LFB | Boron (Total Recoverable) | 100 | 85-115 | | |
| MS | Boron (Total Recoverable) (436494) | 117 | 70-130 | | |
| MSD | Boron (Total Recoverable) (436494) | | | 2 | <20 |
| MS | Boron (Total Recoverable) (436503) | 80 | 70-130 | | |
| MSD | Boron (Total Recoverable) (436503) | | | 1 | <20 |
| MRL | Calcium (Total Recoverable) | 101 | 50-150 | | |
| LFB | Calcium (Total Recoverable) | 95 | 85-115 | | |
| MS | Calcium (Total Recoverable) (436494) | 92 | 70-130 | | |
| MSD | Calcium (Total Recoverable) (436494) | | | <1 | <20 |
| MS | Calcium (Total Recoverable) (436503) | *-15 | 70-130 | | |
| MSD | Calcium (Total Recoverable) (436503) | | | 2 | <20 |
| MRL | Cobalt (Total Recoverable) | 104 | 50-150 | | |
| LFB | Cobalt (Total Recoverable) | 102 | 85-115 | | |
| MS | Cobalt (Total Recoverable) (436494) | 81 | 70-130 | | |
| MSD | Cobalt (Total Recoverable) (436494) | | | <1 | <20 |
| MS | Cobalt (Total Recoverable) (436503) | 86 | 70-130 | | |
| MSD | Cobalt (Total Recoverable) (436503) | | | 2 | <20 |
| MRL | Lithium (Total Recoverable) | 97 | 50-150 | | |
| LFB | Lithium (Total Recoverable) | 102 | 85-115 | | |
| MS | Lithium (Total Recoverable) (436494) | 116 | 70-130 | | |
| MSD | Lithium (Total Recoverable) (436494) | | | 1 | <20 |
| MS | Lithium (Total Recoverable) (436503) | 106 | 70-130 | | |
| MSD | Lithium (Total Recoverable) (436503) | | | 2 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Boron (Total Recoverable) | <7.08 ug/L | 7.08 ug/L | | |
| LRB | Calcium (Total Recoverable) | <25.3 ug/L | 25.3 ug/L | | |
| LRB | Cobalt (Total Recoverable) | <1.78 ug/L | 1.78 ug/L | | |
| LRB | Lithium (Total Recoverable) | <5.15 ug/L | 5.15 ug/L | | |

*See Narrative

Method: EPA 200.8
 Digestion date: 9/26/19
 Batch Analysis date: 10/2/19
 Sampled date: 9/24/19 for samples 436493 – 436499

Matrix QC performed on sample 436494

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|--------------------------------|---------------|----------------------|---------|---------------|
| MRL | Antimony (Total Recoverable) | 106 | 50-150 | | |
| LFB | Antimony (Total Recoverable) | 100 | 85-115 | | |
| MS | Antimony (Total Recoverable) | 94 | 70-130 | | |
| MSD | Antimony (Total Recoverable) | | | <1 | <20 |
| MRL | Arsenic (Total Recoverable) | 98 | 50-150 | | |
| LFB | Arsenic (Total Recoverable) | 99 | 85-115 | | |
| MS | Arsenic (Total Recoverable) | 90 | 70-130 | | |
| MSD | Arsenic (Total Recoverable) | | | 4 | <20 |
| MRL | Barium (Total Recoverable) | 98 | 50-150 | | |
| LFB | Barium (Total Recoverable) | 103 | 85-115 | | |
| MS | Barium (Total Recoverable) | 93 | 70-130 | | |
| MSD | Barium (Total Recoverable) | | | <1 | <20 |
| MRL | Beryllium (Total Recoverable) | 95 | 50-150 | | |
| LFB | Beryllium (Total Recoverable) | 103 | 85-115 | | |
| MS | Beryllium (Total Recoverable) | 86 | 70-130 | | |
| MSD | Beryllium (Total Recoverable) | | | <1 | <20 |
| MRL | Cadmium (Total Recoverable) | 100 | 50-150 | | |
| LFB | Cadmium (Total Recoverable) | 102 | 85-115 | | |
| MS | Cadmium (Total Recoverable) | 89 | 70-130 | | |
| MSD | Cadmium (Total Recoverable) | | | <1 | <20 |
| MRL | Chromium (Total Recoverable) | 96 | 50-150 | | |
| LFB | Chromium (Total Recoverable) | 110 | 85-115 | | |
| MS | Chromium (Total Recoverable) | 88 | 70-130 | | |
| MSD | Chromium (Total Recoverable) | | | 1 | <20 |
| MRL | Lead (Total Recoverable) | 99 | 50-150 | | |
| LFB | Lead (Total Recoverable) | 101 | 85-115 | | |
| MS | Lead (Total Recoverable) | 90 | 70-130 | | |
| MSD | Lead (Total Recoverable) | | | <1 | <20 |
| MRL | Molybdenum (Total Recoverable) | 102 | 50-150 | | |
| LFB | Molybdenum (Total Recoverable) | 92 | 85-115 | | |
| MS | Molybdenum (Total Recoverable) | 94 | 70-130 | | |
| MSD | Molybdenum (Total Recoverable) | | | 1 | <20 |
| MRL | Selenium (Total Recoverable) | 85 | 50-150 | | |
| LFB | Selenium (Total Recoverable) | 101 | 85-115 | | |
| MS | Selenium (Total Recoverable) | 88 | 70-130 | | |
| MSD | Selenium (Total Recoverable) | | | 5 | <20 |
| MRL | Thallium (Total Recoverable) | 99 | 50-150 | | |
| LFB | Thallium (Total Recoverable) | 102 | 85-115 | | |
| MS | Thallium (Total Recoverable) | 93 | 70-130 | | |
| MSD | Thallium (Total Recoverable) | | | 1 | <20 |
| QC Type | Analyte | Concentration | Limit | | |
| LRB | Antimony (Total Recoverable) | <0.176 ug/L | 0.176 ug/L | | |
| LRB | Arsenic (Total Recoverable) | <0.352 ug/L | 0.352 ug/L | | |
| LRB | Barium (Total Recoverable) | <0.044 ug/L | 0.044 ug/L | | |

| | | | |
|-----|--------------------------------|-------------|------------|
| LRB | Beryllium (Total Recoverable) | <0.049 ug/L | 0.049 ug/L |
| LRB | Cadmium (Total Recoverable) | <0.110 ug/L | 0.110 ug/L |
| LRB | Chromium (Total Recoverable) | <0.375 ug/L | 0.375 ug/L |
| LRB | Lead (Total Recoverable) | <0.066 ug/L | 0.066 ug/L |
| LRB | Molybdenum (Total Recoverable) | <0.031 ug/L | 0.031 ug/L |
| LRB | Selenium (Total Recoverable) | <0.352 ug/L | 0.352 ug/L |
| LRB | Thallium (Total Recoverable) | <0.139 ug/L | 0.139 ug/L |

Method: EPA 200.8

Digestion date: 9/26/19

Batch Analysis date: 10/2/19

Sampled date: 9/25/19 for samples 436500 – 436506

Matrix QC performed on sample 436503

| QC Type | Analyte | Recovery (%) | Acceptable Range (%) | RPD (%) | RPD Limit (%) |
|---------|--------------------------------|--------------|----------------------|---------|---------------|
| MRL | Antimony (Total Recoverable) | 107 | 50-150 | | |
| LFB | Antimony (Total Recoverable) | 100 | 85-115 | | |
| MS | Antimony (Total Recoverable) | 88 | 70-130 | | |
| MSD | Antimony (Total Recoverable) | | | 13 | <20 |
| MRL | Arsenic (Total Recoverable) | 98 | 50-150 | | |
| LFB | Arsenic (Total Recoverable) | 98 | 85-115 | | |
| MS | Arsenic (Total Recoverable) | 81 | 70-130 | | |
| MSD | Arsenic (Total Recoverable) | | | 6 | <20 |
| MRL | Barium (Total Recoverable) | 98 | 50-150 | | |
| LFB | Barium (Total Recoverable) | 102 | 85-115 | | |
| MS | Barium (Total Recoverable) | 73 | 70-130 | | |
| MSD | Barium (Total Recoverable) | | | 4 | <20 |
| MRL | Beryllium (Total Recoverable) | 118 | 50-150 | | |
| LFB | Beryllium (Total Recoverable) | 101 | 85-115 | | |
| MS | Beryllium (Total Recoverable) | 84 | 70-130 | | |
| MSD | Beryllium (Total Recoverable) | | | 12 | <20 |
| MRL | Cadmium (Total Recoverable) | 100 | 50-150 | | |
| LFB | Cadmium (Total Recoverable) | 101 | 85-115 | | |
| MS | Cadmium (Total Recoverable) | 82 | 70-130 | | |
| MSD | Cadmium (Total Recoverable) | | | 10 | <20 |
| MRL | Chromium (Total Recoverable) | 119 | 50-150 | | |
| LFB | Chromium (Total Recoverable) | 110 | 85-115 | | |
| MS | Chromium (Total Recoverable) | 87 | 70-130 | | |
| MSD | Chromium (Total Recoverable) | | | 3 | <20 |
| MRL | Lead (Total Recoverable) | 99 | 50-150 | | |
| LFB | Lead (Total Recoverable) | 100 | 85-115 | | |
| MS | Lead (Total Recoverable) | 86 | 70-130 | | |
| MSD | Lead (Total Recoverable) | | | 13 | <20 |
| MRL | Molybdenum (Total Recoverable) | 102 | 50-150 | | |
| LFB | Molybdenum (Total Recoverable) | 102 | 85-115 | | |
| MS | Molybdenum (Total Recoverable) | 87 | 70-130 | | |
| MSD | Molybdenum (Total Recoverable) | | | 14 | <20 |
| MRL | Selenium (Total Recoverable) | 98 | 50-150 | | |
| LFB | Selenium (Total Recoverable) | 93 | 85-115 | | |

| | | | | | |
|----------------|--------------------------------|----------------------|--------|--------------|-----|
| MS | Selenium (Total Recoverable) | 99 | 70-130 | | |
| MSD | Selenium (Total Recoverable) | | | 10 | <20 |
| MRL | Thallium (Total Recoverable) | 99 | 50-150 | | |
| LFB | Thallium (Total Recoverable) | 100 | 85-115 | | |
| MS | Thallium (Total Recoverable) | 90 | 70-130 | | |
| MSD | Thallium (Total Recoverable) | | | 14 | <20 |
| QC Type | Analyte | Concentration | | Limit | |
| LRB | Antimony (Total Recoverable) | <0.176 ug/L | | 0.176 ug/L | |
| LRB | Arsenic (Total Recoverable) | <0.352 ug/L | | 0.352 ug/L | |
| LRB | Barium (Total Recoverable) | <0.044 ug/L | | 0.044 ug/L | |
| LRB | Beryllium (Total Recoverable) | <0.049 ug/L | | 0.049 ug/L | |
| LRB | Cadmium (Total Recoverable) | <0.110 ug/L | | 0.110 ug/L | |
| LRB | Chromium (Total Recoverable) | <0.375 ug/L | | 0.375 ug/L | |
| LRB | Lead (Total Recoverable) | <0.066 ug/L | | 0.066 ug/L | |
| LRB | Molybdenum (Total Recoverable) | <0.031 ug/L | | 0.031 ug/L | |
| LRB | Selenium (Total Recoverable) | <0.352 ug/L | | 0.352 ug/L | |
| LRB | Thallium (Total Recoverable) | <0.139 ug/L | | 0.139 ug/L | |

FD – Field Duplicate
 LFB – Laboratory Fortified Blank
 LRB – Laboratory Reagent Blank (Method Blank)
 QCS – Quality Control Sample
 MRL – Minimum Reporting Limit (Verification)
 MS – Matrix Spike
 MSD – Matrix Spike Duplicate
Underline – Data was outside the limit

ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-35811-1
Client Project/Site: Coal Combustion Rule
Revision: 1

For:
Colorado Springs Utilities
Laboratory Services Section
701 E. Las Vegas St., MC 1465
Colorado Springs, Colorado 80903

Attn: Ms. Wendy Asay



Authorized for release by:
1/9/2020 5:51:06 PM

Chenise Lambert-Sykes, Project Manager I
(314)298-8566
chenise.lambert-sykes@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Chain of Custody | 6 |
| Receipt Checklists | 9 |
| Definitions/Glossary | 10 |
| Method Summary | 11 |
| Sample Summary | 12 |
| Client Sample Results | 13 |
| QC Sample Results | 19 |
| QC Association Summary | 21 |
| Tracer Carrier Summary | 22 |

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Job ID: 160-35811-1

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Colorado Springs Utilities

Project: Coal Combustion Rule

Report Number: 160-35811-1

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

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

Rev1: This report has been revised to include a corrected COC for the Total analysis request per client request.

RECEIPT

The samples were received on 09/27/2019; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 19.0° C, 19.0° C and 19.0° C.

Receipt Exceptions

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Job ID: 160-35811-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. COC has documented that every sample has two containers but what was received is four containers per sample.

Methods 903.0, 904.0, PrecSep-21, PrecSep_0: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of ~7 : 436496 FC_2 (160-35811-4), 436497 FC_3A (160-35811-5) and 436498 FC_3B (160-35811-6). Samples 436496 FC_2, 43697 FC_3A, and 436498 FC_3B received with improper pH, 6.0 ml of HNO₃ was added to one of four containers and a pH of <2 was achieved.

RADIUM-226 (GFPC)

Samples 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436496 FC_2 (160-35811-4), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8), 436502 SC_12 (160-35811-9), 436503 SC_13 (160-35811-10), 436504 SC_13 DUPLICATE (160-35811-11) and 436505 SC_14 (160-35811-12) were analyzed for Radium-226 (GFPC) in accordance with EPA Method 903.0. The samples were prepared on 10/01/2019 and analyzed on 10/23/2019.

Prep Batch: 160-444735

The following samples had yellow discoloration: 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8) and 436502 SC_12 (160-35811-9). Sample 440-248597-D-1 also had yellow discoloration but was reduced. Samples 160-35811-D-5, 160-35811-D-6, 160-35811-D-8, 160-35811-D-9 had cloudy discoloration. Sample 160-35811-D-7 also had cloudy discoloration but was reduced.

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

RADIUM-228 (GFPC)

Samples 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436496 FC_2 (160-35811-4), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8), 436502 SC_12 (160-35811-9), 436503 SC_13 (160-35811-10), 436504 SC_13 DUPLICATE (160-35811-11) and 436505 SC_14 (160-35811-12) were analyzed for Radium-228 (GFPC) in accordance with EPA 904. The samples were prepared on 11/01/2019 and analyzed on 11/06/2019.

Prep Batch: 160-444737

The following samples had yellow discoloration: 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8) and 436502 SC_12 (160-35811-9). Sample 440-248597-D-1 also had yellow discoloration but was reduced. Samples 160-35811-D-5, 160-35811-D-6, 160-35811-D-8, 160-35811-D-9 had cloudy discoloration. Sample 160-35811-D-7 also had cloudy discoloration but was reduced.

The laboratory control sample (LCS) is above the upper control limit 135%, and all other QC is within acceptance criteria. The samples were reanalyzed in prep batch 160-448552 per client request, and data from that batch has been reported with this narrative. (440-248597-F-4-C) and (440-248597-C-4-E DU).

Prep Batch: 160-448552

The following samples had discoloration: 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8), 436502 SC_12 (160-35811-9), 436503 SC_13 (160-35811-10) and 436504 SC_13 DUPLICATE (160-35811-11). Samples 160-35811-C-1, 160-35811-C-2, 160-35811-C-3, 160-35811-C-8, 440-248597-D-5 and 440-248597-D-6 had light yellow discoloration. Samples 160-35811-C-5, 160-35811-D-6 and 160-35811-C-9 had white cloudy discoloration. Sample 160-35811-C-7 was also reduced due to cloudy yellow discoloration.

Insufficient sample volume was available to perform a sample duplicate for the following samples: 436493 CC_1 (160-35811-1), 436494 FC_1 (160-35811-2), 436495 FC_1 DUPLICATE (160-35811-3), 436496 FC_2 (160-35811-4), 436497 FC_3A (160-35811-5), 436498 FC_3B (160-35811-6), 436500 SC_10 (160-35811-7), 436501 SC_11 (160-35811-8), 436502 SC_12 (160-35811-9), 436503 SC_13 (160-35811-10), 436504 SC_13 DUPLICATE (160-35811-11) and 436505 SC_14 (160-35811-12). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision. Samples 160-35811-C-1, 160-35811-C-2,

Case Narrative

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Job ID: 160-35811-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

160-35811-C-3, 160-35811-C-4, 160-35811-C-5, 160-35811-C-6, 160-35811-C-7, 160-35811-C-8, 160-35811-C-9, 160-35811-C-10, 160-35811-C-11, 160-35811-C-12 were prepared at a reduced aliquot due to insufficient volume for re-prep.

The detection goal was not met for the following sample due to the presence of matrix interferences: 436500 SC_10 (160-35811-7). Analytical results are reported with the detection limit achieved.

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

1

2

3

4

5

6

7

8

9

10

11

12

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Wendy Asay
Tel/Fax: 719-668-4603

Site Contact:
Colorado Springs Utilities
701 E. Las Vegas St.
Colorado Springs, CO 80903
(719) 668-4603 Phone
(xxx) xxx-xxxx FAX
Project Name: Coal Combustion Rule
Site:
P O #

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact:
Date:
Carrier:
Lab Contact:
Total Radium 228, EPA 904.0
Total Radium 226, EPA 903.1
Perform MS/MSD (Y/N)
Filtered Sample (Y/N)

COC No: _____ of _____ COCs
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Specific Notes:

160-35811 Chain of Custody

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

Return to Client Archive for _____ Months Disposal by Lab

Therm ID No.: _____
Date/Time: _____
Date/Time: 9-27-19 0855
Date/Time: _____
Date/Time: _____

Company: *MSU*
Company: *MSU*
Company: *MSU*

Received by: *MSU*
Received by: *MSU*
Received in Laboratory by:

Cooler Temp. (°C): Obs'd:
Received by: *MSU*
Received by: *MSU*
Received in Laboratory by:

Custody Seal No.: _____
Company: *MSU*
Date/Time: 9/26/19 0915
Date/Time: _____
Date/Time: _____

Relinquished by: *MSU*
Relinquished by:
Relinquished by:

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

Flammable Non-Hazard Skin Irritant Poison B Unknown

Custody Seals Intact: Yes No

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

1
2
3
4
5
6
7
8
9
10
11
12

Earth City, MO 63045-1205
phone 314.298.8566 fax 314.298.8757

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

| | | | | | |
|--------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------|--|
| Client Contact | | Project Manager: Wendy Asay Tel/Fax: 719-668-4603 | | Date: | |
| Colorado Springs Utilities 701 E. Las Vegas St. | | Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | Carrier: | |
| Colorado Springs, CO 80903 (719) 668-4603 Phone (xxx) xxx-xxxx FAX | | TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day | | COC No. of COCs | |
| Project Name: Coal Combustion Rule | | Sample Date | | For Lab Use Only: Walk-in Client Lab Sampling: | |
| Site: | | Sample Time | | Job / SDG No.: | |
| P.O.# | | Sample Type (C=Comp, G=Grab) | | Sample Specific Notes: | |
| Sample Identification | | Matrix | | | |
| 436493 CC_1 | | GW | | | |
| 436494 FC_1 | | GW | | | |
| 436495 FC_1 duplicate | | GW | | | |
| 436496 FC_2 | | GW | | | |
| 436497 FC_3A | | GW | | | |
| 436498 FC_3B | | GW | | | |
| 436500 SC_10 | | GW | | | |
| 436501 SC_11 | | GW | | | |
| 436502 SC_12 | | GW | | | |
| 436503 SC_13 | | GW | | | |
| 436504 SC_13 duplicate | | GW | | | |
| 436505 SC_14 | | GW | | | |



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

| | | | | |
|---------------------------------|--------------------------|-----------------------------|----------------------------|------------|
| Received by: <i>[Signature]</i> | Date/Time: 9/26/19 08:58 | Company: <i>[Signature]</i> | Received in Laboratory by: | Date/Time: |
| Received by: | Date/Time: | Company: | Received in Laboratory by: | Date/Time: |



Chain of Custody Record

TestAmerica St. Louis
13715 Rider Trail North

Earth City, MO 63045-1205
phone 314.298.8566 fax 314.298.8757

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact
Colorado Springs Utilities
701 E. Las Vegas St.
Colorado Springs, CO 80903
(719) 668-4603 Phone
(xxx) xxx-xxxx FAX
Project Name: Coal Combustion Rule
Site:
P O #

Project Manager: Wendy Assay
Tel/Fax: 719-668-4603
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
2 weeks
1 week
2 days
1 day

Site Contact: _____
Lab Contact: _____
Date: _____
Carrier: _____
COC No.: _____ of _____ **COCs**

Sampler: _____
For Lab Use Only: _____
Walk-in Client: _____
Lab Sampling: _____
Job / SDG No.: _____

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS/MSD (Y/N) | Total Radium 226, EPA 903.1 | Total Radium 228, EPA 904.0 | Sample Specific Notes: |
|------------------------|-------------|-------------|------------------------------|--------|------------|-----------------------|----------------------|-----------------------------|-----------------------------|----------------------------------------------|
| | | | | | | | | | | |
| 436493 CC_1 | 9/24/19 | 1145 | G | GW | 2 | Y | X | X | | These samples were not filtered. W by 1-3-20 |
| 436494 FC_1 | 9/24/19 | 0939 | G | GW | 2 | Y | X | X | | |
| 436495 FC_1 duplicate | 9/24/19 | 0939 | G | GW | 2 | Y | X | X | | |
| 436496 FC_2 | 9/24/19 | 1011 | G | GW | 2 | Y | X | X | | |
| 436497 FC_3A | 9/24/19 | 1258 | G | GW | 2 | Y | X | X | | |
| 436498 FC_3B | 9/24/19 | 1333 | G | GW | 2 | Y | X | X | | |
| 436500 SC_10 | 9/25/19 | 0917 | G | GW | 2 | Y | X | X | | |
| 436501 SC_11 | 9/25/19 | 0951 | G | GW | 2 | Y | X | X | | |
| 436502 SC_12 | 9/25/19 | 1029 | G | GW | 2 | Y | X | X | | |
| 436503 SC_13 | 9/25/19 | 1115 | G | GW | 2 | Y | X | X | | |
| 436504 SC_13 duplicate | 9/25/19 | 1115 | G | GW | 2 | Y | X | X | | |
| 436505 SC_14 | 9/25/19 | 1153 | G | GW | 2 | Y | X | X | | |



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 8=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Return to Client Dispose by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please be sure to use the listed method numbers.

Custody Seals Intact: Yes No

Relinquished by: *Wendy Assay* **Company:** *CSU*

Relinquished by: *Wendy Assay* **Company:** *CSU*

Relinquished by: _____ **Company:** _____

Received by: *Wendy Assay* **Company:** *CSU*

Received by: _____ **Company:** _____

Received in Laboratory by: _____ **Company:** _____

Date/Time: 9/26/19 9:27:19 AM **Therm ID No.:** _____

Date/Time: _____ **Company:** _____

Date/Time: _____ **Company:** _____



Login Sample Receipt Checklist

Client: Colorado Springs Utilities

Job Number: 160-35811-1

Login Number: 35811

List Source: Eurofins TestAmerica, St. Louis

List Number: 1

Creator: Press, Nicholas B

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

Definitions/Glossary

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Qualifiers

Rad

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

Glossary

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

Method Summary

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

| Method | Method Description | Protocol | Laboratory |
|------------|--------------------------------------------------------|----------|------------|
| 903.0 | Radium-226 (GFPC) | EPA | TAL SL |
| 904.0 | Radium-228 (GFPC) | EPA | TAL SL |
| PrecSep_0 | Preparation, Precipitate Separation | None | TAL SL |
| PrecSep-21 | Preparation, Precipitate Separation (21-Day In-Growth) | None | TAL SL |

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

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



Sample Summary

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------------|--------|----------------|----------------|----------|
| 160-35811-1 | 436493 CC_1 | Water | 09/24/19 11:45 | 09/27/19 08:55 | |
| 160-35811-2 | 436494 FC_1 | Water | 09/24/19 09:39 | 09/27/19 08:55 | |
| 160-35811-3 | 436495 FC_1 DUPLICATE | Water | 09/24/19 09:39 | 09/27/19 08:55 | |
| 160-35811-4 | 436496 FC_2 | Water | 09/24/19 10:11 | 09/27/19 08:55 | |
| 160-35811-5 | 436497 FC_3A | Water | 09/24/19 12:58 | 09/27/19 08:55 | |
| 160-35811-6 | 436498 FC_3B | Water | 09/24/19 13:33 | 09/27/19 08:55 | |
| 160-35811-7 | 436500 SC_10 | Water | 09/25/19 09:17 | 09/27/19 08:55 | |
| 160-35811-8 | 436501 SC_11 | Water | 09/25/19 09:51 | 09/27/19 08:55 | |
| 160-35811-9 | 436502 SC_12 | Water | 09/25/19 10:29 | 09/27/19 08:55 | |
| 160-35811-10 | 436503 SC_13 | Water | 09/25/19 11:15 | 09/27/19 08:55 | |
| 160-35811-11 | 436504 SC_13 DUPLICATE | Water | 09/25/19 11:15 | 09/27/19 08:55 | |
| 160-35811-12 | 436505 SC_14 | Water | 09/25/19 11:53 | 09/27/19 08:55 | |

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436493 CC_1

Lab Sample ID: 160-35811-1

Date Collected: 09/24/19 11:45

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.364 | | 0.152 | 0.156 | 1.00 | 0.178 | pCi/L | 10/01/19 17:10 | 10/23/19 20:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 63.8 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.08 | | 0.447 | 0.458 | 1.00 | 0.618 | pCi/L | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 77.8 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Y Carrier | 81.1 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |

Client Sample ID: 436494 FC_1

Lab Sample ID: 160-35811-2

Date Collected: 09/24/19 09:39

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.647 | | 0.182 | 0.191 | 1.00 | 0.147 | pCi/L | 10/01/19 17:10 | 10/23/19 20:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 62.4 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.981 | | 0.455 | 0.464 | 1.00 | 0.655 | pCi/L | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 74.5 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |

Client Sample ID: 436495 FC_1 DUPLICATE

Lab Sample ID: 160-35811-3

Date Collected: 09/24/19 09:39

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.484 | | 0.168 | 0.174 | 1.00 | 0.183 | pCi/L | 10/01/19 17:10 | 10/23/19 20:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 64.1 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:54 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436495 FC_1 DUPLICATE

Lab Sample ID: 160-35811-3

Date Collected: 09/24/19 09:39

Matrix: Water

Date Received: 09/27/19 08:55

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.06 | | 0.458 | 0.469 | 1.00 | 0.667 | pCi/L | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.2 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |
| Y Carrier | 80.4 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:42 | 1 |

Client Sample ID: 436496 FC_2

Lab Sample ID: 160-35811-4

Date Collected: 09/24/19 10:11

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.141 | U | 0.120 | 0.121 | 1.00 | 0.182 | pCi/L | 10/01/19 17:10 | 10/23/19 20:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 64.4 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.230 | U | 0.436 | 0.437 | 1.00 | 0.739 | pCi/L | 11/01/19 13:23 | 11/06/19 12:45 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.6 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:45 | 1 |
| Y Carrier | 80.0 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:45 | 1 |

Client Sample ID: 436497 FC_3A

Lab Sample ID: 160-35811-5

Date Collected: 09/24/19 12:58

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.209 | | 0.121 | 0.123 | 1.00 | 0.161 | pCi/L | 10/01/19 17:10 | 10/23/19 20:54 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 72.0 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:54 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.438 | U | 0.418 | 0.420 | 1.00 | 0.678 | pCi/L | 11/01/19 13:23 | 11/06/19 12:45 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:45 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436497 FC_3A

Date Collected: 09/24/19 12:58

Date Received: 09/27/19 08:55

Lab Sample ID: 160-35811-5

Matrix: Water

Method: 904.0 - Radium-228 (GFPC) (Continued)

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|----------|----------------|----------------|---------|
| Y Carrier | 80.7 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:45 | 1 |

Client Sample ID: 436498 FC_3B

Date Collected: 09/24/19 13:33

Date Received: 09/27/19 08:55

Lab Sample ID: 160-35811-6

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-226 | 0.359 | | 0.133 | 0.137 | 1.00 | 0.147 | pCi/L | 10/01/19 17:10 | 10/23/19 20:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 81.6 | | 40 - 110 | 10/01/19 17:10 | 10/23/19 20:55 | 1 | | | | |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-228 | 0.427 | U | 0.408 | 0.410 | 1.00 | 0.662 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 90.4 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:46 | 1 | | | | |
| Y Carrier | 83.4 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:46 | 1 | | | | |

Client Sample ID: 436500 SC_10

Date Collected: 09/25/19 09:17

Date Received: 09/27/19 08:55

Lab Sample ID: 160-35811-7

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-226 | 0.409 | | 0.219 | 0.222 | 1.00 | 0.295 | pCi/L | 10/01/19 17:10 | 10/23/19 20:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 60.5 | | 40 - 110 | 10/01/19 17:10 | 10/23/19 20:55 | 1 | | | | |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|----------------|---------|-------|----------------|----------------|---------|
| Radium-228 | 0.321 | U G | 0.635 | 0.636 | 1.00 | 1.08 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| Ba Carrier | 62.2 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:46 | 1 | | | | |
| Y Carrier | 80.7 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:46 | 1 | | | | |

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436501 SC_11

Lab Sample ID: 160-35811-8

Date Collected: 09/25/19 09:51

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.121 | U | 0.118 | 0.118 | 1.00 | 0.185 | pCi/L | 10/01/19 17:10 | 10/23/19 20:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 68.6 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:55 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0532 | U | 0.370 | 0.371 | 1.00 | 0.651 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.8 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Y Carrier | 80.0 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

Client Sample ID: 436502 SC_12

Lab Sample ID: 160-35811-9

Date Collected: 09/25/19 10:29

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.213 | | 0.124 | 0.125 | 1.00 | 0.167 | pCi/L | 10/01/19 17:10 | 10/23/19 20:55 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 75.7 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 20:55 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.249 | U | 0.427 | 0.428 | 1.00 | 0.721 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.6 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Y Carrier | 78.1 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

Client Sample ID: 436503 SC_13

Lab Sample ID: 160-35811-10

Date Collected: 09/25/19 11:15

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|-------------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.183 | | 0.123 | 0.124 | 1.00 | 0.174 | pCi/L | 10/01/19 17:10 | 10/23/19 22:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 66.1 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 22:48 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436503 SC_13

Lab Sample ID: 160-35811-10

Date Collected: 09/25/19 11:15

Matrix: Water

Date Received: 09/27/19 08:55

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.297 | U | 0.413 | 0.413 | 1.00 | 0.688 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.4 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

Client Sample ID: 436504 SC_13 DUPLICATE

Lab Sample ID: 160-35811-11

Date Collected: 09/25/19 11:15

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.263 | | 0.167 | 0.169 | 1.00 | 0.238 | pCi/L | 10/01/19 17:10 | 10/23/19 22:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 53.4 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 22:48 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.454 | U | 0.491 | 0.493 | 1.00 | 0.804 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 84.7 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Y Carrier | 78.1 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

Client Sample ID: 436505 SC_14

Lab Sample ID: 160-35811-12

Date Collected: 09/25/19 11:53

Matrix: Water

Date Received: 09/27/19 08:55

Method: 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.153 | U | 0.136 | 0.137 | 1.00 | 0.209 | pCi/L | 10/01/19 17:10 | 10/23/19 22:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 54.0 | | 40 - 110 | | | | | 10/01/19 17:10 | 10/23/19 22:48 | 1 |

Method: 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.465 | U | 0.373 | 0.375 | 1.00 | 0.591 | pCi/L | 11/01/19 13:23 | 11/06/19 12:46 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.6 | | 40 - 110 | | | | | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Client Sample ID: 436505 SC_14

Lab Sample ID: 160-35811-12

Date Collected: 09/25/19 11:53

Matrix: Water

Date Received: 09/27/19 08:55

Method: 904.0 - Radium-228 (GFPC) (Continued)

| <i>Carrier</i> | <i>%Yield</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|----------------|---------------|------------------|---------------|-----------------|-----------------|----------------|
| Y Carrier | 80.4 | | 40 - 110 | 11/01/19 13:23 | 11/06/19 12:46 | 1 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Sample Results

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444735/19-A
Matrix: Water
Analysis Batch: 447440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444735

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.1325 | | 0.0906 | 0.0914 | 1.00 | 0.123 | pCi/L | 10/01/19 18:02 | 10/23/19 22:49 | 1 |
| Carrier | MB | MB | Limits | | Prepared | Analyzed | Dil Fac | | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 76.6 | | 40 - 110 | | 10/01/19 18:02 | 10/23/19 22:49 | 1 | | | |

Lab Sample ID: LCS 160-444735/1-A
Matrix: Water
Analysis Batch: 447440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444735

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|----------|----------|---------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.4 | 11.44 | | 1.22 | 1.00 | 0.143 | pCi/L | 101 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 74.6 | | 40 - 110 | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-448552/19-A
Matrix: Water
Analysis Batch: 449305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448552

| Analyte | MB | MB | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|----------------|----------------|---------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | -0.1556 | U | 0.365 | 0.365 | 1.00 | 0.671 | pCi/L | 11/01/19 13:23 | 11/06/19 12:47 | 1 |
| Carrier | MB | MB | Limits | | Prepared | Analyzed | Dil Fac | | | |
| | %Yield | Qualifier | | | | | | | | |
| Ba Carrier | 92.8 | | 40 - 110 | | 11/01/19 13:23 | 11/06/19 12:47 | 1 | | | |
| Y Carrier | 80.7 | | 40 - 110 | | 11/01/19 13:23 | 11/06/19 12:47 | 1 | | | |

Lab Sample ID: LCS 160-448552/1-A
Matrix: Water
Analysis Batch: 449235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448552

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------|----------|----------|---------|------|--------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-228 | 12.6 | 12.09 | | 1.59 | 1.00 | 0.815 | pCi/L | 96 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | Prepared | Analyzed | Dil Fac | | |
| | %Yield | Qualifier | | | | | | | |
| Ba Carrier | 66.1 | | 40 - 110 | | | | | | |
| Y Carrier | 79.3 | | 40 - 110 | | | | | | |

QC Sample Results

Client: Colorado Springs Utilities
 Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-448552/2-A
Matrix: Water
Analysis Batch: 449235

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448552

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|-------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 12.6 | 13.71 | | 1.68 | 1.00 | 0.720 | pCi/L | 109 | 75 - 125 | 0.49 | 1 |

| Carrier | LCSD %Yield | LCSD Qualifier | Limits |
|------------|-------------|----------------|----------|
| Ba Carrier | 76.6 | | 40 - 110 |
| Y Carrier | 78.1 | | 40 - 110 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Association Summary

Client: Colorado Springs Utilities
 Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Rad

Prep Batch: 444735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 160-35811-1 | 436493 CC_1 | Total/NA | Water | PrecSep-21 | |
| 160-35811-2 | 436494 FC_1 | Total/NA | Water | PrecSep-21 | |
| 160-35811-3 | 436495 FC_1 DUPLICATE | Total/NA | Water | PrecSep-21 | |
| 160-35811-4 | 436496 FC_2 | Total/NA | Water | PrecSep-21 | |
| 160-35811-5 | 436497 FC_3A | Total/NA | Water | PrecSep-21 | |
| 160-35811-6 | 436498 FC_3B | Total/NA | Water | PrecSep-21 | |
| 160-35811-7 | 436500 SC_10 | Total/NA | Water | PrecSep-21 | |
| 160-35811-8 | 436501 SC_11 | Total/NA | Water | PrecSep-21 | |
| 160-35811-9 | 436502 SC_12 | Total/NA | Water | PrecSep-21 | |
| 160-35811-10 | 436503 SC_13 | Total/NA | Water | PrecSep-21 | |
| 160-35811-11 | 436504 SC_13 DUPLICATE | Total/NA | Water | PrecSep-21 | |
| 160-35811-12 | 436505 SC_14 | Total/NA | Water | PrecSep-21 | |
| MB 160-444735/19-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-444735/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 448552

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 160-35811-1 | 436493 CC_1 | Total/NA | Water | PrecSep_0 | |
| 160-35811-2 | 436494 FC_1 | Total/NA | Water | PrecSep_0 | |
| 160-35811-3 | 436495 FC_1 DUPLICATE | Total/NA | Water | PrecSep_0 | |
| 160-35811-4 | 436496 FC_2 | Total/NA | Water | PrecSep_0 | |
| 160-35811-5 | 436497 FC_3A | Total/NA | Water | PrecSep_0 | |
| 160-35811-6 | 436498 FC_3B | Total/NA | Water | PrecSep_0 | |
| 160-35811-7 | 436500 SC_10 | Total/NA | Water | PrecSep_0 | |
| 160-35811-8 | 436501 SC_11 | Total/NA | Water | PrecSep_0 | |
| 160-35811-9 | 436502 SC_12 | Total/NA | Water | PrecSep_0 | |
| 160-35811-10 | 436503 SC_13 | Total/NA | Water | PrecSep_0 | |
| 160-35811-11 | 436504 SC_13 DUPLICATE | Total/NA | Water | PrecSep_0 | |
| 160-35811-12 | 436505 SC_14 | Total/NA | Water | PrecSep_0 | |
| MB 160-448552/19-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-448552/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCS 160-448552/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Tracer/Carrier Summary

Client: Colorado Springs Utilities
Project/Site: Coal Combustion Rule

Job ID: 160-35811-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|--------------------|------------------------|-----------------------------------|--|
| | | Ba Carrier (40-110) | |
| 160-35811-1 | 436493 CC_1 | 63.8 | |
| 160-35811-2 | 436494 FC_1 | 62.4 | |
| 160-35811-3 | 436495 FC_1 DUPLICATE | 64.1 | |
| 160-35811-4 | 436496 FC_2 | 64.4 | |
| 160-35811-5 | 436497 FC_3A | 72.0 | |
| 160-35811-6 | 436498 FC_3B | 81.6 | |
| 160-35811-7 | 436500 SC_10 | 60.5 | |
| 160-35811-8 | 436501 SC_11 | 68.6 | |
| 160-35811-9 | 436502 SC_12 | 75.7 | |
| 160-35811-10 | 436503 SC_13 | 66.1 | |
| 160-35811-11 | 436504 SC_13 DUPLICATE | 53.4 | |
| 160-35811-12 | 436505 SC_14 | 54.0 | |
| LCS 160-444735/1-A | Lab Control Sample | 74.6 | |
| MB 160-444735/19-A | Method Blank | 76.6 | |

Tracer/Carrier Legend
Ba Carrier = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|---------------------|------------------------|-----------------------------------|-----------------------|
| | | Ba Carrier (40-110) | Y Carrier (40-110) |
| 160-35811-1 | 436493 CC_1 | 77.8 | 81.1 |
| 160-35811-2 | 436494 FC_1 | 74.5 | 82.6 |
| 160-35811-3 | 436495 FC_1 DUPLICATE | 89.2 | 80.4 |
| 160-35811-4 | 436496 FC_2 | 88.6 | 80.0 |
| 160-35811-5 | 436497 FC_3A | 91.3 | 80.7 |
| 160-35811-6 | 436498 FC_3B | 90.4 | 83.4 |
| 160-35811-7 | 436500 SC_10 | 62.2 | 80.7 |
| 160-35811-8 | 436501 SC_11 | 89.8 | 80.0 |
| 160-35811-9 | 436502 SC_12 | 85.6 | 78.1 |
| 160-35811-10 | 436503 SC_13 | 90.4 | 80.7 |
| 160-35811-11 | 436504 SC_13 DUPLICATE | 84.7 | 78.1 |
| 160-35811-12 | 436505 SC_14 | 94.6 | 80.4 |
| LCS 160-448552/1-A | Lab Control Sample | 66.1 | 79.3 |
| LCSD 160-448552/2-A | Lab Control Sample Dup | 76.6 | 78.1 |
| MB 160-448552/19-A | Method Blank | 92.8 | 80.7 |

Tracer/Carrier Legend
Ba Carrier = Ba Carrier
Y Carrier = Y Carrier