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March 23, 2022

Mr. William Fees  
Washington State Department of Ecology  
Toxics Cleanup Program  
4601 N. Monroe, Suite 202  
Spokane, WA 99205-1295

**RE: L-Bar Site Compliance Monitoring Program—2021 Year-End Groundwater Monitoring Data Submittal**

Dear Mr. Fees:

On behalf of Alcoa, Great West Engineering has prepared this letter and associated attachments to summarize the groundwater monitoring results collected in 2021 as part of the *Compliance Monitoring Program* (CMP) at the L-Bar site.

The following attachments summarize the groundwater monitoring data collected in 2021:

|              |                                                         |
|--------------|---------------------------------------------------------|
| Attachment A | Site Map and CMP Monitoring Network                     |
| Attachment B | Groundwater Elevation Hydrograph                        |
| Attachment C | Spring 2021 Groundwater Flow Map                        |
| Attachment D | Fall 2021 Groundwater Flow Map                          |
| Attachment E | Groundwater Field Measurements and Analytical Data      |
| Attachment F | Groundwater Quality Analytical Laboratory Data Packages |
| Attachment G | Groundwater Time Series Concentration Plots:            |
|              | G-1 Chloride Concentrations                             |
|              | G-2 Ammonia Concentrations                              |
|              | G-3 Total Dissolved Solids Concentrations               |

**Attachment A** is the site map showing the current CMP groundwater monitoring network, which includes thirteen (13) sampling locations, including twelve (12) shallow resource-protection groundwater monitoring wells and one (1) deep production well (PW). Groundwater monitoring is conducted semi-annually at the L-Bar site as initiated in the *L-Bar Material Removal and Compliance Monitoring Work Plan* (CH2M, 2001) and as recently updated in the *L-Bar Site Compliance Monitoring Program Sampling and Analysis Work Plan, 2020 Revision* (Jacobs, 2020). Per the CMP, the primary indicator parameters (ammonia, chloride, and TDS) are consistently sampled twice (semi-annual) per year. The secondary parameters (nitrate, nitrite, barium [total], manganese [total], selenium [total], and thallium [total], plus laboratory analyzed turbidity) are sampled twice per year every other year (i.e., secondary constituents are sampled during even numbered years and excluded during odd numbered years). As such, only primary indicator parameters were sampled in 2021.

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**Attachment B** is the updated groundwater elevation hydrograph showing the groundwater level fluctuations from semi-annual CMP monitoring events conducted over the past 20 years from 2001 through the latest 2021 sampling event. Previous 5-year Review Reports have discussed the seasonal fluctuations, which were persistent in 2021 monitoring events.

**Attachments C and D** present the groundwater flow maps for the respective spring and fall 2021 monitoring events. The dashed lines represent the inferred groundwater elevation contours, and the blue arrows represent the generalized and inferred groundwater flow direction, perpendicular to the groundwater elevation contours. Both the spring and fall groundwater flow maps support a general flow direction to the north-northwest, illustrating groundwater discharging towards and into the Colville River, which is consistent with previously reported groundwater flow conditions.

**Attachment E** presents the groundwater monitoring field measurements and the groundwater analytical results for both spring and fall monitoring events performed in 2021. Bold-font values are detected concentrations that exceed the site-specific cleanup levels as specified in the *L-Bar Site Compliance Monitoring Program Sampling and Analysis Work Plan, 2020 Revision* (Jacobs, 2020). As shown in the footnotes and associated results, five cases for chloride during the fall event were identified to be erroneous or inconsistent with historic data. For these cases, the laboratory was contacted and recognized that incorrect dilutions had been reported; the laboratory issued the corrected laboratory report on March 23, 2022.

**Attachment F** are the laboratory reports for the respective spring and fall semi-annual groundwater sampling events. As noted above, for the fall event, 5 values for chloride were incorrect due to dilutions, and the corrected laboratory report was issued on March 23, 2022.

**Attachment G** provides updated time-series plots for the primary indicator parameters (Chloride, Ammonia, and TDS in Attachment G.1, G.2, and G.3, respectively) and all the CMP groundwater monitoring wells. Overall, the concentrations for primary indicator parameters are showing continued progress towards achievement of cleanup levels. For SA-10, indicator parameters such as ammonia and TDS are supportive of decreasing concentrations, however, the latest 2 results for chloride are elevated. This phenomenon of 2 primary indicators showing declines while the 3<sup>rd</sup> parameter being elevated is curious, and suggests that these recent chloride values may not be wholly representative of groundwater conditions given the laboratory data quality issues identified for several other chloride results as noted above. Monitoring results and conditions from SA-10 will be closely monitored in future data evaluations to determine if these results represent actual or persistent changes in groundwater quality, or if they are attributed to laboratory issues.

We understand that in planning for 2022-2023 monitoring activities that the next periodic review will occur following completion of sampling in 2022. This next periodic review will provide a focused assessment to track continued progress towards achievement of cleanup levels.



Please feel free to contact me should you have any questions or comments regarding this 2021 CMP groundwater data submittal.

Sincerely,

**Great West Engineering, Inc.**

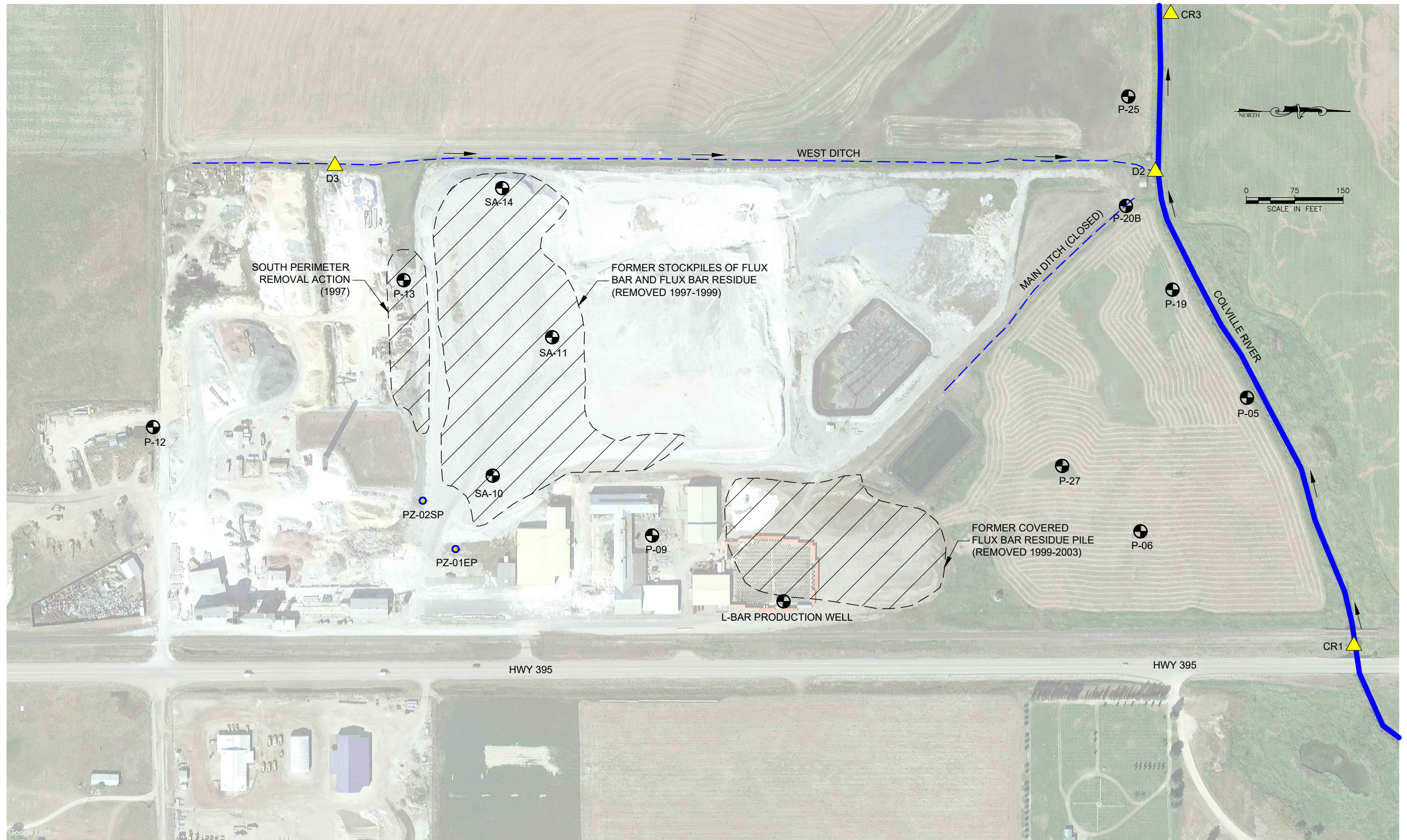
A handwritten signature in blue ink, appearing to read "Craig Sauer".

Craig Sauer, PG  
Project Manager

cc: Kristin Gaines/Alcoa Corporation  
Johnie McCanna/Alcoa Contractor  
Charles Gruenenfelder/Washington State Dept. of Ecology  
Charlie Kessler/Stevens County Conservation District

## **Attachment A**

### *Site Map and CMP Monitoring Network*

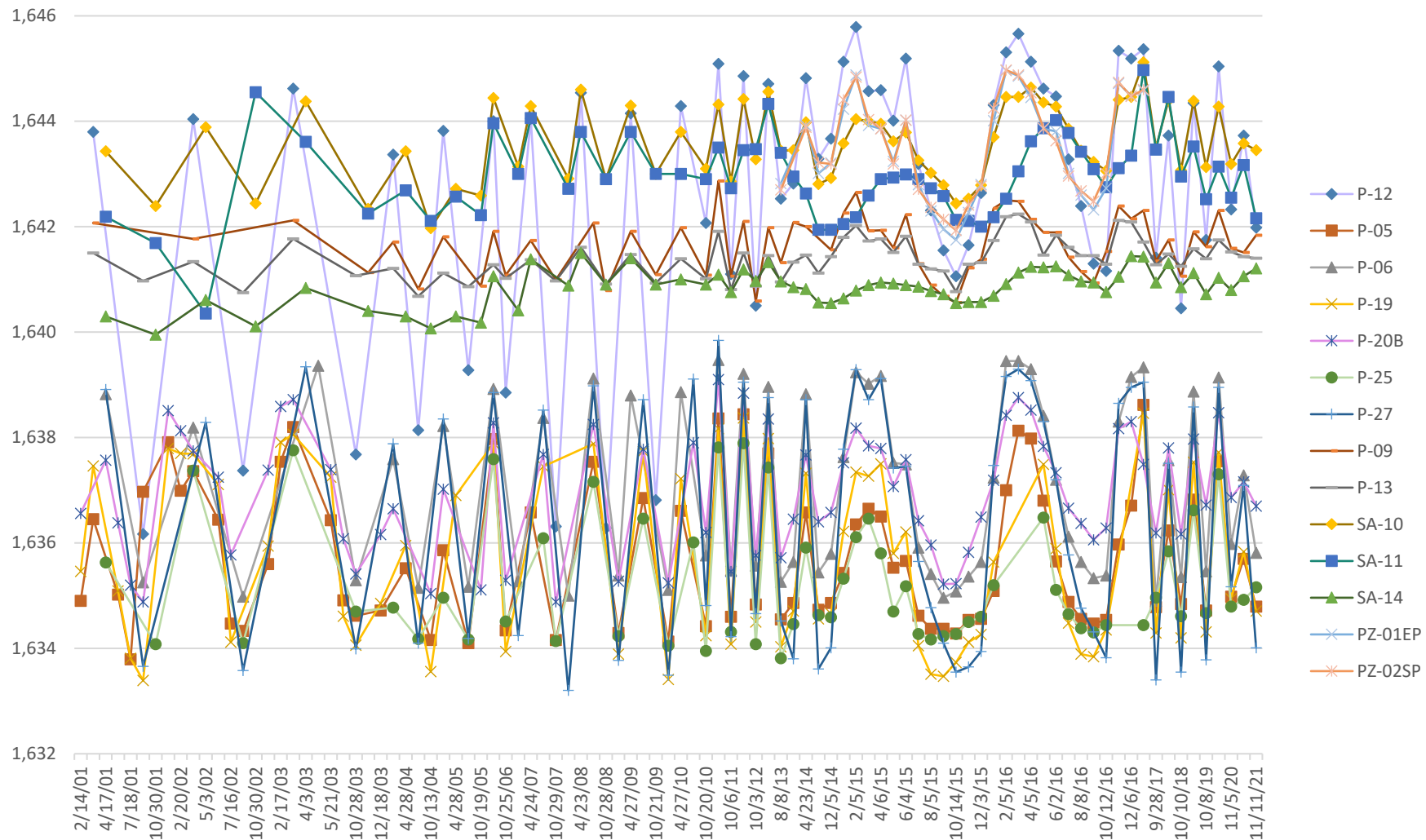


### LEGEND

-  COMPLIANCE GROUNDWATER MONITORING WELL
-  GROUNDWATER PIEZOMETER
-  COMPLIANCE SURFACE WATER SAMPLING STATION
-  MAJOR SOURCE REMOVAL AREA

## **Attachment B**

### *Groundwater Elevation Hydrograph*



**Attachment B. Groundwater Elevation Hydrograph**  
 2021 Year-End Groundwater Monitoring Data Submittal  
 L-Bar Site Compliance Monitoring Program

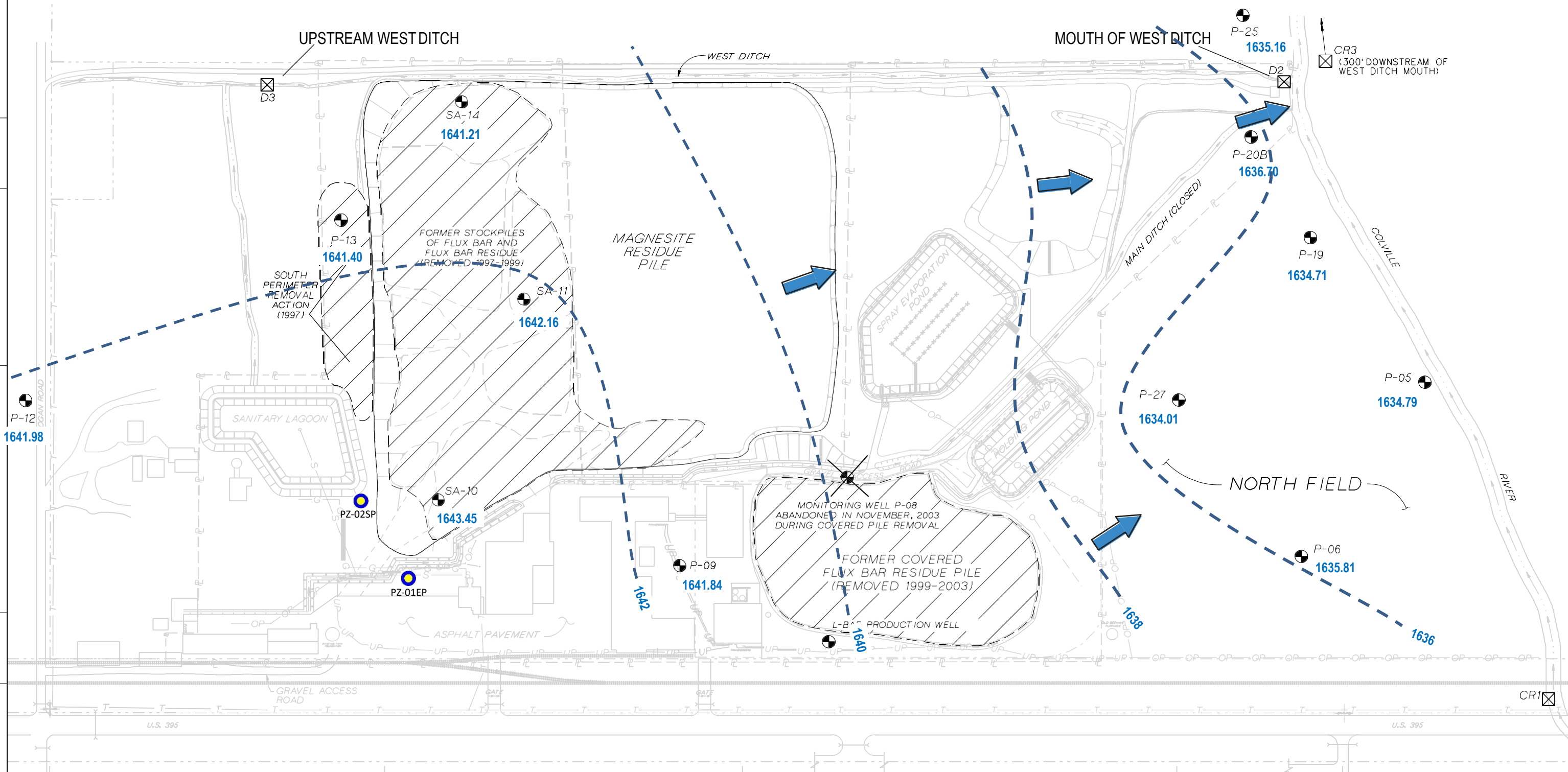
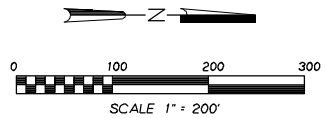
## **Attachment C**

### ***Spring 2021 Groundwater Flow Map***



## **Attachment D**

### *Fall 2021 Groundwater Flow Map*



LEGEND

- |                                                                                          |                                           |                                                                                       |                                                                    |
|------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|  P-05 | COMPLIANCE MONITORING WELL LOCATION       |  | INFERRED GROUNDWATER ELEVATION CONTOUR                             |
|  D2  | COMPLIANCE SURFACE WATER SAMPLING STATION |  | INFERRED GROUNDWATER FLOW DIRECTION FOR SHALLOW WATER-BEARING UNIT |
|      | MAJOR SOURCE REMOVAL AREA                 |  | GROUNDWATER PIEZOMETER                                             |

Attachment D. Fall 2021 Groundwater Flow Map  
2021 Year-End Groundwater Monitoring Data Submittal  
L-Bar Site Compliance Monitoring Program

VERTICAL DATUM IS NAVD88

125, 28, 44, 45, 47, 62, 64  
364  
125, 28, 44, 45, 47, 62, 64  
364

## **Attachment E**

### *Groundwater Field Measurements and Analytical Data*

**Attachment E. Groundwater Field Measurements and Analytical Data**

2021 Year-End Groundwater Monitoring Data Submittal

L-Bar Site Compliance Monitoring Program

| Group                                  | Analyte      | Unit   | P-12   | P-13         | SA-10         | SA-11         | SA-14        | P-09         | P-05         | P-06        | P-27          | P-19          | P-20B        | P-25         | PW     | Cleanup Level |
|----------------------------------------|--------------|--------|--------|--------------|---------------|---------------|--------------|--------------|--------------|-------------|---------------|---------------|--------------|--------------|--------|---------------|
| <i>Spring Sampling Event - 5/20/21</i> |              |        |        |              |               |               |              |              |              |             |               |               |              |              |        |               |
| Field                                  | Water Level  | ft bgs | 5.7    | 4.55         | 28.49         | 25.1          | 25.79        | 2.3          | 7.29         | 5.05        | 5.1           | 4.2           | 5.09         | 4.49         | --     | --            |
| Field                                  | Temperature  | °C     | 8.4    | 9.7          | 11.1          | 11.2          | 10.9         | 18.9         | 7.0          | 8.1         | 7.9           | 10.7          | 10.1         | 9.1          | 11.5   | --            |
| Field                                  | pH           | units  | 7.89   | 8.91         | 8.54          | 8.66          | 10.76        | 8.94         | 7.72         | 7.82        | 7.74          | 7.21          | 7.77         | 7.28         | 8.63   | --            |
| Field                                  | Conductivity | uS/cm  | 1,132  | 6,740        | 27,440        | 21,300        | 5,230        | 2,628        | 6,970        | 1,192       | 16,650        | 16,880        | 5,710        | 3,537        | 673    | --            |
| Inorganics                             | Ammonia-N    | mg/L   | < 0.02 | <b>31.2</b>  | <b>721</b>    | <b>71.5</b>   | <b>16.40</b> | <b>0.15</b>  | < 0.02       | <b>0.49</b> | 0.0397        | 0.0512        | <b>12.7</b>  | <b>0.57</b>  | < 0.02 | 0.13          |
| Inorganics                             | Chloride     | mg/L   | 7.05   | <b>1,050</b> | <b>12,200</b> | <b>7,590</b>  | <b>921</b>   | <b>595</b>   | <b>2,040</b> | 94.9        | <b>5,390</b>  | <b>5,680</b>  | <b>1,400</b> | <b>748</b>   | 0.942  | 230           |
| Inorganics                             | TDS          | mg/L   | 679    | <b>4,970</b> | <b>27,500</b> | <b>21,100</b> | <b>4,200</b> | <b>2,260</b> | <b>5,340</b> | 745         | <b>11,400</b> | <b>14,000</b> | <b>4,630</b> | <b>3,180</b> | 275    | 1,092         |
| Inorganics                             | Turbidity    | NTU    | 0.49   | 0.40         | 1.4           | 1.41          | 0.19         | 0.32         | 0.98         | 86          | 0.67          | 0.67          | 13.8         | 111          | 2.180  | --            |
| <i>Fall Sampling Event - 11/11/21</i>  |              |        |        |              |               |               |              |              |              |             |               |               |              |              |        |               |
| Field                                  | Water Level  | ft bgs | 7.45   | 4.58         | 28.62         | 26.11         | 25.64        | 1.97         | 8.2          | 6.52        | 8.18          | 5.32          | 5.55         | 4.25         | --     | --            |
| Field                                  | Temperature  | °C     | 11.6   | 9.4          | 10.9          | 11.0          | 10.4         | 12.5         | 8.4          | 10.4        | 9.8           | 9.2           | 13.3         | 10.2         | 17.9   | --            |
| Field                                  | pH           | units  | 8.38   | 7.95         | 8.53          | 9.21          | 11.06        | 8.86         | 7.97         | 8.30        | 7.67          | 7.59          | 7.77         | 7.91         | 8.89   | --            |
| Field                                  | Conductivity | uS/cm  | 1,098  | 7,130        | 34,160        | 18,970        | 5,170        | 3,329        | 6,780        | 868         | 17,170        | 10,000        | 7,490        | 2,820        | 455    | --            |
| Inorganics                             | Ammonia-N    | mg/L   | < 0.02 | <b>32.5</b>  | <b>704</b>    | <b>53.9</b>   | <b>16.6</b>  | <b>1.12</b>  | < 0.02       | 0.0958      | < 0.02        | < 0.02        | <b>19.2</b>  | <b>0.184</b> | < 0.02 | 0.13          |
| Inorganics                             | Chloride     | mg/L   | 6.49   | <b>1100*</b> | <b>16,600</b> | <b>5,370</b>  | <b>960</b>   | <b>421*</b>  | <b>1,980</b> | 177         | 6250*         | 5320*         | <b>2,100</b> | <b>820</b>   | 2.56*  | 230           |
| Inorganics                             | TDS          | mg/L   | 681    | <b>6,070</b> | <b>14,300</b> | <b>10,900</b> | <b>3,170</b> | <b>1,640</b> | <b>3,720</b> | 457         | <b>10,900</b> | <b>6,230</b>  | <b>4,600</b> | <b>1,640</b> | 254    | 1,092         |
| Inorganics                             | Turbidity    | NTU    | 0.58   | 1.65         | 0.50          | 0.41          | 0.41         | 0.24         | 15.00        | 0.22        | 0.57          | 0.73          | 1.51         | 2.62         | 67.40  | --            |

**Notes:**
**Bold** values are those that exceed their respective cleanup level

Non-detect values shown as ND or preceded with "&lt;" symbol; non-detect value is Practical Quantitation Limit (PQL)

Selected chloride values flagged with "\*" indicate cases where laboratory initially reported incorrect results due to dilutions; they re-issued the corrected report on March 23, 2022 as provided in Attachment F.

## **Attachment F**

### *Groundwater Quality Analytical Laboratory Data Packages*

# Anatek Labs, Inc.

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**Client:** Great West Engineering, Inc.  
**Address:** 9221 N. Division St., Suite F  
Spokane, WA 99218  
**Attn:** Craig Sauer

**Work Order:** WBE0835  
**Project:** Alcoa Q2 L-Bar  
**Reported:** 7/26/2021 14:36

## Analytical Results Report

**Sample Location:** 052021P12  
**Lab/Sample Number:** WBE0835-01      **Collect Date:** 05/20/21 07:50  
**Date Received:** 05/20/21 16:25      **Collected By:** Craig Sauer  
**Matrix:** Water

| Analyte           | Result | Units    | PQL    | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |               |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 6/7/21 15:49  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 7.05   | mg/L     | 0.100  | 6/7/21 19:46  | BAS     | EPA 300.0     |           |
| pH                | 7.33   | pH Units | 1.00   | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 679    | mg/L     | 5.00   | 5/24/21 15:50 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.485  | NTU      | 0.100  | 5/21/21 9:08  | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P13  
Lab/Sample Number: WBE0835-02 Collect Date: 05/20/21 08:20  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |               |         |               |           |
| Ammonia/N         | 31.2   | mg/L     | 0.400 | 6/7/21 18:43  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 1050   | mg/L     | 5.00  | 6/7/21 20:36  | BAS     | EPA 300.0     |           |
| pH                | 7.98   | pH Units | 1.00  | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 4970   | mg/L     | 5.00  | 5/24/21 15:50 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.401  | NTU      | 0.100 | 5/21/21 9:08  | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021SA10  
Lab/Sample Number: WBE0835-03 Collect Date: 05/20/21 08:50  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |               |         |               |           |
| Ammonia/N         | 721    | mg/L     | 20.0  | 6/15/21 14:50 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 12200  | mg/L     | 50.0  | 6/7/21 20:53  | BAS     | EPA 300.0     |           |
| pH                | 7.32   | pH Units | 1.00  | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 27500  | mg/L     | 5.00  | 5/24/21 15:50 | BAS     | SM 2540 C     |           |
| Turbidity         | 1.38   | NTU      | 0.100 | 5/21/21 9:08  | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021SA11  
Lab/Sample Number: WBE0835-04 Collect Date: 05/20/21 09:10  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |               |         |               |           |
| Ammonia/N         | 71.5   | mg/L     | 2.00  | 6/15/21 14:25 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 7590   | mg/L     | 50.0  | 6/7/21 21:09  | BAS     | EPA 300.0     |           |
| pH                | 7.97   | pH Units | 1.00  | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 21100  | mg/L     | 5.00  | 5/26/21 8:55  | BAS     | SM 2540 C     |           |
| Turbidity         | 1.41   | NTU      | 0.100 | 5/21/21 9:08  | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021SA14  
Lab/Sample Number: WBE0835-05 Collect Date: 05/20/21 09:25  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |              |         |               |           |
| Ammonia/N         | 16.4   | mg/L     | 0.400 | 6/7/21 18:51 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 921    | mg/L     | 5.00  | 6/7/21 21:26 | BAS     | EPA 300.0     |           |
| pH                | 9.93   | pH Units | 1.00  | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 4200   | mg/L     | 5.00  | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.189  | NTU      | 0.100 | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P09  
Lab/Sample Number: WBE0835-06 Collect Date: 05/20/21 12:45  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | 0.153  | mg/L     | 0.0200 | 6/7/21 15:58 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 595    | mg/L     | 2.50   | 6/7/21 21:42 | BAS     | EPA 300.0     |           |
| pH                | 8.44   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 2260   | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.316  | NTU      | 0.100  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021PW  
Lab/Sample Number: WBE0835-07 Collect Date: 05/20/21 12:20  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 6/7/21 15:59 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 0.942  | mg/L     | 0.100  | 6/7/21 21:59 | BAS     | EPA 300.0     |           |
| pH                | 7.49   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 275    | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 2.18   | NTU      | 0.100  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P05  
Lab/Sample Number: WBE0835-08 Collect Date: 05/20/21 11:05  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 6/7/21 16:00 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 2040   | mg/L     | 10.0   | 6/7/21 23:38 | BAS     | EPA 300.0     |           |
| pH                | 7.02   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 5340   | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.978  | NTU      | 0.100  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P06  
Lab/Sample Number: WBE0835-09 Collect Date: 05/20/21 11:25  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | 0.493  | mg/L     | 0.0200 | 6/7/21 16:02 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 94.9   | mg/L     | 0.400  | 6/7/21 23:54 | BAS     | EPA 300.0     |           |
| pH                | 7.05   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 745    | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 85.8   | NTU      | 0.250  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P19  
Lab/Sample Number: WBE0835-10 Collect Date: 05/20/21 10:50  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |               |         |               |           |
| Ammonia/N         | 0.0512 | mg/L     | 0.0200 | 6/7/21 16:03  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 5680   | mg/L     | 25.0   | 6/14/21 16:41 | BAS     | EPA 300.0     |           |
| pH                | 6.57   | pH Units | 1.00   | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 14000  | mg/L     | 5.00   | 5/26/21 8:55  | BAS     | SM 2540 C     |           |
| Turbidity         | 0.665  | NTU      | 0.100  | 5/21/21 9:08  | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P20B  
Lab/Sample Number: WBE0835-11 Collect Date: 05/20/21 10:25  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |              |         |               |           |
| Ammonia/N         | 12.7   | mg/L     | 0.400 | 6/7/21 18:53 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 1400   | mg/L     | 10.0  | 6/8/21 0:27  | BAS     | EPA 300.0     |           |
| pH                | 7.32   | pH Units | 1.00  | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 4630   | mg/L     | 5.00  | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 13.8   | NTU      | 0.100 | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P25  
Lab/Sample Number: WBE0835-12 Collect Date: 05/20/21 10:05  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | 0.566  | mg/L     | 0.0200 | 6/7/21 16:05 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 748    | mg/L     | 2.50   | 6/8/21 0:44  | BAS     | EPA 300.0     |           |
| pH                | 6.81   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 3180   | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 111    | NTU      | 0.400  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 052021P27  
Lab/Sample Number: WBE0835-13 Collect Date: 05/20/21 11:50  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed     | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|--------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |              |         |               |           |
| Ammonia/N         | 0.0397 | mg/L     | 0.0200 | 6/7/21 16:06 | TLM     | SM 4500-NH3 H |           |
| Chloride          | 5390   | mg/L     | 50.0   | 6/8/21 1:00  | BAS     | EPA 300.0     |           |
| pH                | 7.12   | pH Units | 1.00   | 5/21/21 6:30 | KAS     | SM 4500-H-B   |           |
| TDS               | 11400  | mg/L     | 5.00   | 5/26/21 8:55 | BAS     | SM 2540 C     |           |
| Turbidity         | 0.674  | NTU      | 0.100  | 5/21/21 9:08 | CME     | EPA 180.1     |           |

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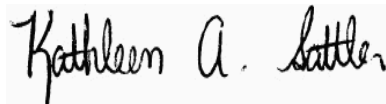
## Analytical Results Report

(Continued)

Sample Location: 052021FD3  
Lab/Sample Number: WBE0835-14 Collect Date: 05/20/21 14:30  
Date Received: 05/20/21 16:25 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed      | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|---------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |               |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 6/7/21 16:14  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 1.07   | mg/L     | 0.100  | 6/14/21 16:57 | BAS     | EPA 300.0     |           |
| pH                | 7.82   | pH Units | 1.00   | 5/21/21 6:30  | KAS     | SM 4500-H-B   |           |
| TDS               | 452    | mg/L     | 5.00   | 5/26/21 8:55  | BAS     | SM 2540 C     |           |
| Turbidity         | 1.80   | NTU      | 0.100  | 5/21/21 9:08  | CME     | EPA 180.1     |           |

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit  
ND Not Detected  
MCL EPA's Maximum Contaminant Level  
Dry Sample results reported on a dry weight basis  
\* Not a state-certified analyte

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## **Certifications**

| <b>Code</b> | <b>Description</b>               | <b>Facility</b>    | <b>Number</b> |
|-------------|----------------------------------|--------------------|---------------|
| W WA DOE    | Washington Department of Ecology | Anatek-Spokane, WA | C585          |

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## Quality Control Data

### Inorganics

| Analyte                                | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD   | RPD Limit                      |
|----------------------------------------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-------|--------------------------------|
| <b>Batch: BBE0704 - W Wet Chem</b>     |        |      |                 |       |             |               |      |             |       |                                |
| <b>Blank (BBE0704-BLK1)</b>            |        |      |                 |       |             |               |      |             |       |                                |
| Turbidity                              | ND     |      | 0.100           | NTU   |             |               |      |             |       | Prepared & Analyzed: 5/21/2021 |
| <b>Batch: BBE0771 - W Wet Chem</b>     |        |      |                 |       |             |               |      |             |       |                                |
| <b>Blank (BBE0771-BLK1)</b>            |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | ND     |      | 5.00            | mg/L  |             |               |      |             |       | Prepared & Analyzed: 5/24/2021 |
| <b>LCS (BBE0771-BS1)</b>               |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | 479    |      |                 | mg/L  | 500         |               | 95.8 | 80-120      |       | Prepared & Analyzed: 5/24/2021 |
| <b>LCS Dup (BBE0771-BSD1)</b>          |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | 488    |      |                 | mg/L  | 500         |               | 97.6 | 80-120      | 1.86  | 20                             |
| <b>Duplicate (BBE0771-DUP1)</b>        |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | 704    |      | 5.00            | mg/L  |             | 679           |      |             | 3.62  | 20                             |
| <b>Matrix Spike (BBE0771-MS1)</b>      |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | 1060   |      | 5.00            | mg/L  | 500         | 549           | 102  | 80-120      |       | Prepared & Analyzed: 5/24/2021 |
| <b>Matrix Spike Dup (BBE0771-MSD1)</b> |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | 1050   |      | 5.00            | mg/L  | 500         | 549           | 101  | 80-120      | 0.568 | 20                             |
| <b>Batch: BBE0866 - W Wet Chem</b>     |        |      |                 |       |             |               |      |             |       |                                |
| <b>Blank (BBE0866-BLK1)</b>            |        |      |                 |       |             |               |      |             |       |                                |
| TDS                                    | ND     |      | 5.00            | mg/L  |             |               |      |             |       | Prepared & Analyzed: 5/26/2021 |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                        | Result | Qual | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit                   |
|------------------------------------------------|--------|------|--------------------|-------|----------------|------------------|------|----------------|------|--------------------------------|
| <b>Batch: BBE0866 - W Wet Chem (Continued)</b> |        |      |                    |       |                |                  |      |                |      |                                |
| <b>Blank (BBE0866-BLK2)</b>                    |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | ND     |      | 5.00               | mg/L  |                |                  |      |                |      | Prepared & Analyzed: 5/26/2021 |
| <b>LCS (BBE0866-BS1)</b>                       |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | 472    |      |                    | mg/L  | 500            |                  | 94.4 | 80-120         |      | Prepared & Analyzed: 5/26/2021 |
| <b>LCS Dup (BBE0866-BSD1)</b>                  |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | 486    |      |                    | mg/L  | 500            |                  | 97.2 | 80-120         | 2.92 | 20                             |
| <b>Duplicate (BBE0866-DUP1)</b>                |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | 789    |      | 5.00               | mg/L  |                | 805              |      |                | 2.01 | 20                             |
| <b>Matrix Spike (BBE0866-MS1)</b>              |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | 716    |      | 5.00               | mg/L  | 500            | 275              | 88.2 | 80-120         |      | Prepared & Analyzed: 5/26/2021 |
| <b>Matrix Spike Dup (BBE0866-MSD1)</b>         |        |      |                    |       |                |                  |      |                |      |                                |
| TDS                                            | 774    |      | 5.00               | mg/L  | 500            | 275              | 99.8 | 80-120         | 7.79 | 20                             |
| <b>Batch: BBF0265 - W Ions</b>                 |        |      |                    |       |                |                  |      |                |      |                                |
| <b>Blank (BBF0265-BLK1)</b>                    |        |      |                    |       |                |                  |      |                |      |                                |
| Chloride                                       | ND     |      | 0.100              | mg/L  |                |                  |      |                |      | Prepared & Analyzed: 6/7/2021  |
| <b>LCS (BBF0265-BS1)</b>                       |        |      |                    |       |                |                  |      |                |      |                                |
| Chloride                                       | 4.06   |      |                    | mg/L  | 4.00           |                  | 102  | 90-110         |      | Prepared & Analyzed: 6/7/2021  |
| <b>Matrix Spike (BBF0265-MS1)</b>              |        |      |                    |       |                |                  |      |                |      |                                |
| Chloride                                       | 5.24   |      |                    | mg/L  | 4.00           | 0.942            | 108  | 80-120         |      | Prepared & Analyzed: 6/7/2021  |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                    | Result | Qual | Reporting<br>Limit        | Units | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|--------------------------------------------|--------|------|---------------------------|-------|-------------------------------|------------------|------|----------------|------|--------------|
| <b>Batch: BBF0265 - W Ions (Continued)</b> |        |      |                           |       |                               |                  |      |                |      |              |
| <b>Matrix Spike Dup (BBF0265-MSD1)</b>     |        |      | <b>Source: WBE0835-07</b> |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Chloride                                   | 4.80   |      |                           | mg/L  | 4.00                          | 0.942            | 96.5 | 80-120         | 8.77 | 20           |
| <b>Batch: BBF0279 - W FIA</b>              |        |      |                           |       |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK1)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK2)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK3)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK4)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK5)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK6)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK7)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |
| <b>Blank (BBF0279-BLK8)</b>                |        |      |                           |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |      |              |
| Ammonia/N                                  | ND     |      | 0.0200                    | mg/L  |                               |                  |      |                |      |              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual                      | Reporting<br>Limit | Units | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit |
|-------------------------------------------|--------|---------------------------|--------------------|-------|-------------------------------|------------------|------|----------------|-----|--------------|
| <b>Batch: BBF0279 - W FIA (Continued)</b> |        |                           |                    |       |                               |                  |      |                |     |              |
| <b>Blank (BBF0279-BLK9)</b>               |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | ND     |                           | 0.0200             | mg/L  |                               |                  |      |                |     |              |
| <b>LCS (BBF0279-BS1)</b>                  |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.198  |                           | 0.0200             | mg/L  | 0.200                         |                  | 99.0 | 90-110         |     |              |
| <b>LCS (BBF0279-BS2)</b>                  |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.204  |                           | 0.0200             | mg/L  | 0.200                         |                  | 102  | 90-110         |     |              |
| <b>LCS (BBF0279-BS3)</b>                  |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.201  |                           | 0.0200             | mg/L  | 0.200                         |                  | 101  | 90-110         |     |              |
| <b>LCS (BBF0279-BS4)</b>                  |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.205  |                           | 0.0200             | mg/L  | 0.200                         |                  | 103  | 90-110         |     |              |
| <b>LCS (BBF0279-BS5)</b>                  |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.210  |                           | 0.0200             | mg/L  | 0.200                         |                  | 105  | 90-110         |     |              |
| <b>Matrix Spike (BBF0279-MS1)</b>         |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.333  | <b>Source: WBE0799-02</b> | 0.0200             | mg/L  | 0.200                         | 0.141            | 95.8 | 80-120         |     |              |
| <b>Matrix Spike (BBF0279-MS2)</b>         |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.457  | <b>Source: WBE0850-02</b> | 0.0200             | mg/L  | 0.200                         | 0.269            | 94.1 | 80-120         |     |              |
| <b>Matrix Spike (BBF0279-MS3)</b>         |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.247  | <b>Source: WBE0904-02</b> | 0.0200             | mg/L  | 0.200                         | 0.0608           | 93.3 | 80-120         |     |              |
| <b>Matrix Spike (BBF0279-MS4)</b>         |        |                           |                    |       | Prepared & Analyzed: 6/7/2021 |                  |      |                |     |              |
| Ammonia/N                                 | 0.226  | <b>Source: WBE1136-02</b> | 0.0200             | mg/L  | 0.200                         | 0.0372           | 94.6 | 80-120         |     |              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual | Reporting<br>Limit           | Units | Spike<br>Level                 | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit |
|-------------------------------------------|--------|------|------------------------------|-------|--------------------------------|------------------|------|----------------|-------|--------------|
| <b>Batch: BBF0279 - W FIA (Continued)</b> |        |      |                              |       |                                |                  |      |                |       |              |
| <b>Matrix Spike Dup (BBF0279-MSD1)</b>    |        |      | <b>Source: WBE0799-02</b>    |       | Prepared & Analyzed: 6/7/2021  |                  |      |                |       |              |
| Ammonia/N                                 | 0.323  |      | 0.0200                       | mg/L  | 0.200                          | 0.141            | 91.1 | 80-120         | 2.83  | 20           |
| <b>Matrix Spike Dup (BBF0279-MSD2)</b>    |        |      | <b>Source: WBE0850-02</b>    |       | Prepared & Analyzed: 6/7/2021  |                  |      |                |       |              |
| Ammonia/N                                 | 0.465  |      | 0.0200                       | mg/L  | 0.200                          | 0.269            | 97.8 | 80-120         | 1.61  | 20           |
| <b>Matrix Spike Dup (BBF0279-MSD3)</b>    |        |      | <b>Source: WBE0904-02</b>    |       | Prepared & Analyzed: 6/7/2021  |                  |      |                |       |              |
| Ammonia/N                                 | 0.248  |      | 0.0200                       | mg/L  | 0.200                          | 0.0608           | 93.6 | 80-120         | 0.242 | 20           |
| <b>Matrix Spike Dup (BBF0279-MSD4)</b>    |        |      | <b>Source: WBE1136-02</b>    |       | Prepared & Analyzed: 6/7/2021  |                  |      |                |       |              |
| Ammonia/N                                 | 0.225  |      | 0.0200                       | mg/L  | 0.200                          | 0.0372           | 93.8 | 80-120         | 0.665 | 20           |
| <b>Batch: BBF0527 - W Ions</b>            |        |      |                              |       |                                |                  |      |                |       |              |
| <b>Blank (BBF0527-BLK1)</b>               |        |      |                              |       | Prepared & Analyzed: 6/14/2021 |                  |      |                |       |              |
| Chloride                                  | ND     |      | 0.100                        | mg/L  |                                |                  |      |                |       |              |
| <b>LCS (BBF0527-BS1)</b>                  |        |      |                              |       | Prepared & Analyzed: 6/14/2021 |                  |      |                |       |              |
| Chloride                                  | 3.99   |      |                              | mg/L  | 4.00                           |                  | 99.8 | 90-110         |       |              |
| <b>Matrix Spike (BBF0527-MS1)</b>         |        |      | <b>Source: WBF0459-07RE1</b> |       | Prepared & Analyzed: 6/14/2021 |                  |      |                |       |              |
| Chloride                                  | 28.1   |      |                              | mg/L  | 4.00                           | 24.1             | 101  | 80-120         |       |              |
| <b>Matrix Spike Dup (BBF0527-MSD1)</b>    |        |      | <b>Source: WBF0459-07RE1</b> |       | Prepared & Analyzed: 6/14/2021 |                  |      |                |       |              |
| Chloride                                  | 28.1   |      |                              | mg/L  | 4.00                           | 24.1             | 99.5 | 80-120         | 0.183 | 20           |
| <b>Batch: BBF0552 - W FIA</b>             |        |      |                              |       |                                |                  |      |                |       |              |
| <b>Blank (BBF0552-BLK1)</b>               |        |      |                              |       | Prepared & Analyzed: 6/15/2021 |                  |      |                |       |              |
| Ammonia/N                                 | ND     |      | 0.0200                       | mg/L  |                                |                  |      |                |       |              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit                   |
|-------------------------------------------|--------|------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------------------------|
| <b>Batch: BBF0552 - W FIA (Continued)</b> |        |      |                    |       |                |                  |      |                |     |                                |
| <b>Blank (BBF0552-BLK2)</b>               |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | ND     |      | 0.0200             | mg/L  |                |                  |      |                |     | Prepared & Analyzed: 6/15/2021 |
| <b>Blank (BBF0552-BLK3)</b>               |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | ND     |      | 0.0200             | mg/L  |                |                  |      |                |     | Prepared & Analyzed: 6/15/2021 |
| <b>Blank (BBF0552-BLK4)</b>               |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | ND     |      | 0.0200             | mg/L  |                |                  |      |                |     | Prepared & Analyzed: 6/15/2021 |
| <b>Blank (BBF0552-BLK5)</b>               |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | ND     |      | 0.0200             | mg/L  |                |                  |      |                |     | Prepared & Analyzed: 6/15/2021 |
| <b>Blank (BBF0552-BLK6)</b>               |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | ND     |      | 0.0200             | mg/L  |                |                  |      |                |     | Prepared & Analyzed: 6/15/2021 |
| <b>LCS (BBF0552-BS1)</b>                  |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | 0.201  |      | 0.0200             | mg/L  | 0.200          |                  | 101  | 90-110         |     | Prepared & Analyzed: 6/15/2021 |
| <b>LCS (BBF0552-BS2)</b>                  |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | 0.199  |      | 0.0200             | mg/L  | 0.200          |                  | 99.6 | 90-110         |     | Prepared & Analyzed: 6/15/2021 |
| <b>LCS (BBF0552-BS3)</b>                  |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | 0.200  |      | 0.0200             | mg/L  | 0.200          |                  | 100  | 90-110         |     | Prepared & Analyzed: 6/15/2021 |
| <b>Matrix Spike (BBF0552-MS1)</b>         |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | 0.346  |      | 0.0200             | mg/L  | 0.200          | 0.132            | 107  | 80-120         |     | Prepared & Analyzed: 6/15/2021 |
| <b>Matrix Spike (BBF0552-MS2)</b>         |        |      |                    |       |                |                  |      |                |     |                                |
| Ammonia/N                                 | 0.267  |      | 0.0200             | mg/L  | 0.200          | 0.0643           | 101  | 80-120         |     | Prepared & Analyzed: 6/15/2021 |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual                      | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result               | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|-------------------------------------------|--------|---------------------------|--------------------|-------|----------------|--------------------------------|------|----------------|------|--------------|
| <b>Batch: BBF0552 - W FIA (Continued)</b> |        |                           |                    |       |                |                                |      |                |      |              |
| <b>Matrix Spike (BBF0552-MS3)</b>         |        | <b>Source: WBF0287-02</b> |                    |       |                | Prepared & Analyzed: 6/15/2021 |      |                |      |              |
| Ammonia/N                                 | 0.192  |                           | 0.0200             | mg/L  | 0.200          | ND                             | 96.0 | 80-120         |      |              |
| <b>Matrix Spike Dup (BBF0552-MSD1)</b>    |        | <b>Source: WBF0079-02</b> |                    |       |                | Prepared & Analyzed: 6/15/2021 |      |                |      |              |
| Ammonia/N                                 | 0.330  |                           | 0.0200             | mg/L  | 0.200          | 0.132                          | 99.2 | 80-120         | 4.79 | 20           |
| <b>Matrix Spike Dup (BBF0552-MSD2)</b>    |        | <b>Source: WBF0208-02</b> |                    |       |                | Prepared & Analyzed: 6/15/2021 |      |                |      |              |
| Ammonia/N                                 | 0.260  |                           | 0.0200             | mg/L  | 0.200          | 0.0643                         | 97.6 | 80-120         | 2.74 | 20           |
| <b>Matrix Spike Dup (BBF0552-MSD3)</b>    |        | <b>Source: WBF0287-02</b> |                    |       |                | Prepared & Analyzed: 6/15/2021 |      |                |      |              |
| Ammonia/N                                 | 0.183  |                           | 0.0200             | mg/L  | 0.200          | ND                             | 91.4 | 80-120         | 4.86 | 20           |



# Chain of Custody Record

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Anatek  
Log-In #

WBE0835



Due: 06/07/21

|                                                         |                                                         |
|---------------------------------------------------------|---------------------------------------------------------|
| Company Name: <u>Great West Engineering</u>             | Project Manager: <u>Craig Sauer</u>                     |
| Address: <u>9221 N Division St</u>                      | Project Name & #: <u>Alcoa Q2 L-Bar</u>                 |
| City: <u>Spokane</u> State: <u>WA</u> Zip: <u>99021</u> | Email Address: <u>csauer@greatwesteng.com</u>           |
| Phone: <u>509-994-9938</u>                              | Purchase Order #: <u>Alcoa</u>                          |
| Fax:                                                    | Sampler Name & phone: <u>craig sauer / 509-994-9938</u> |

Please refer to our normal turn around times at:  
<http://www.anateklabs.com/services/guidelines/reporting.asp>

☒ Normal ☐ Next Day\* ☐ 2nd Day\* ☐ Other\*  
\*All rush order requests must be prior approved.  
Phone \_\_\_\_\_ Mail \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

| Provide Sample Description |                       |                    |        | List Analyses Requested          |               |              |                         |                          |                          |           |    |  |  | Note Special Instructions/Comments                                                                                                              |  |
|----------------------------|-----------------------|--------------------|--------|----------------------------------|---------------|--------------|-------------------------|--------------------------|--------------------------|-----------|----|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Lab ID                     | Sample Identification | Sampling Date/Time | Matrix | Preservative:<br># of Containers | Sample Volume | NH3, Cl, TDS | Ammonia<br>Nitrate, NO3 | Ammonium<br>Nitrite, NO2 | Ammonium<br>Nitrate, NO3 | Turbidity | pH |  |  | *Analyses requested only NH3, Cl, TDS, and turbidity.<br><br>Additional samples:<br>MS/MSD: 052021PW (5/20, 1220)<br>FD: 052021FD3 (5/20, 1430) |  |
|                            | 052021P12             | 5/20 0750          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P13             | 5/20 0820          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021SA10            | 5/20 0850          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021SA11            | 5/20 0910          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021SA14            | 5/20 0925          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P09             | 5/20 1245          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021PW              | 5/20 1220          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P05             | 5/20 1105          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P06             | 5/20 1125          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P19             | 5/20 1050          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P20B            | 5/20 1025          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P25             | 5/20 1005          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |
|                            | 052021P27             | 5/20 1150          | W      | 2                                |               | X            | X                       | X                        | X                        | X         |    |  |  |                                                                                                                                                 |  |

|                 | Printed Name       | Signature          | Company           | Date           | Time        |
|-----------------|--------------------|--------------------|-------------------|----------------|-------------|
| Relinquished by | <u>Craig Sauer</u> | <u>[Signature]</u> | <u>Great West</u> | <u>5/20</u>    | <u>1625</u> |
| Received by     | <u>KScoff</u>      | <u>[Signature]</u> | <u>Anatek</u>     | <u>5/20/21</u> | <u>1625</u> |
| Relinquished by |                    |                    |                   |                |             |
| Received by     |                    |                    |                   |                |             |
| Relinquished by |                    |                    |                   |                |             |
| Received by     |                    |                    |                   |                |             |

| Inspection Checklist   |                                     |   |
|------------------------|-------------------------------------|---|
| Received Intact?       | <input checked="" type="checkbox"/> | N |
| Labels & Chains Agree? | <input checked="" type="checkbox"/> | N |
| Containers Sealed?     | <input checked="" type="checkbox"/> | N |
| VOC Head Space?        | <input checked="" type="checkbox"/> | N |
| Cooler?                | <input checked="" type="checkbox"/> | N |
| Ice/Ice Packs Present? | <input checked="" type="checkbox"/> | N |

Temperature (°C): 7.8° IR#1  
Preservative: H2SO4 < 2004/162  
P2001015  
Date & Time: 5/20/21  
Inspected By: hd/c/i 30pcu

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.

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**Client:** Great West Engineering, Inc.  
**Address:** 9221 N. Division St., Suite F  
Spokane, WA 99218  
**Attn:** Craig Sauer

**Work Order:** WBK0468  
**Project:** Alcoa Q4 L-Bar  
**Reported:** 3/23/2022 17:26

## Analytical Results Report

**Sample Location:** 111121 P12  
**Lab/Sample Number:** WBK0468-01 **Collect Date:** 11/11/21 07:50  
**Date Received:** 11/11/21 15:20 **Collected By:** Craig Sauer  
**Matrix:** Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:30  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 6.49   | mg/L     | 0.100  | 11/12/21 22:35 | ZML     | EPA 300.0     |           |
| pH                | 7.81   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 681    | mg/L     | 5.00   | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 0.576  | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P13  
Lab/Sample Number: WBK0468-02 Collect Date: 11/11/21 08:25  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |                |         |               |           |
| Ammonia/N         | 32.5   | mg/L     | 0.400 | 12/1/21 16:08  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 1100   | mg/L     | 5.00  | 11/15/21 15:36 | ZML     | EPA 300.0     |           |
| pH                | 7.51   | pH Units | 1.00  | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 6070   | mg/L     | 5.00  | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 1.65   | NTU      | 0.100 | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 SA10  
Lab/Sample Number: WBK0468-03 Collect Date: 11/11/21 09:20  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |                |         |               |           |
| Ammonia/N         | 704    | mg/L     | 10.0  | 12/1/21 16:27  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 16600  | mg/L     | 50.0  | 11/19/21 13:14 | ZML     | EPA 300.0     |           |
| pH                | 7.37   | pH Units | 1.00  | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 14300  | mg/L     | 5.00  | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 0.502  | NTU      | 0.100 | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 SA11  
Lab/Sample Number: WBK0468-04 Collect Date: 11/11/21 09:05  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |                |         |               |           |
| Ammonia/N         | 53.9   | mg/L     | 0.800 | 12/1/21 16:30  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 5370   | mg/L     | 50.0  | 11/29/21 16:55 | ZML     | EPA 300.0     |           |
| pH                | 8.08   | pH Units | 1.00  | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 10900  | mg/L     | 5.00  | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 0.408  | NTU      | 0.100 | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 SA14  
Lab/Sample Number: WBK0468-05 Collect Date: 11/11/21 08:50  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |                |         |               |           |
| Ammonia/N         | 16.6   | mg/L     | 0.400 | 12/1/21 16:16  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 960    | mg/L     | 5.00  | 11/16/21 17:50 | ZML     | EPA 300.0     |           |
| pH                | 9.85   | pH Units | 1.00  | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 3170   | mg/L     | 5.00  | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 0.409  | NTU      | 0.100 | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P09  
Lab/Sample Number: WBK0468-06 Collect Date: 11/11/21 13:10  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | 1.12   | mg/L     | 0.0200 | 12/1/21 14:39  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 421    | mg/L     | 5.00   | 11/16/21 18:22 | ZML     | EPA 300.0     |           |
| pH                | 7.97   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 1640   | mg/L     | 5.00   | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 0.239  | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 PW  
Lab/Sample Number: WBK0468-07 Collect Date: 11/11/21 13:20  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:40  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 2.56   | mg/L     | 0.100  | 11/13/21 1:03  | ZML     | EPA 300.0     |           |
| pH                | 7.87   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 254    | mg/L     | 5.00   | 11/12/21 14:27 | KAS     | SM 2540 C     |           |
| Turbidity         | 67.4   | NTU      | 0.200  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P05  
Lab/Sample Number: WBK0468-08 Collect Date: 11/11/21 11:20  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:41  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 1980   | mg/L     | 10.0   | 11/16/21 18:22 | ZML     | EPA 300.0     |           |
| pH                | 7.31   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 3720   | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 15.0   | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P06  
Lab/Sample Number: WBK0468-09 Collect Date: 11/11/21 11:50  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | 0.0958 | mg/L     | 0.0200 | 12/1/21 14:42  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 177    | mg/L     | 20.0   | 11/19/21 12:24 | ZML     | EPA 300.0     |           |
| pH                | 7.81   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 457    | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 0.215  | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P19  
Lab/Sample Number: WBK0468-10 Collect Date: 11/11/21 11:00  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:44  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 5320   | mg/L     | 20.0   | 11/13/21 2:10  | ZML     | EPA 300.0     |           |
| pH                | 6.91   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 6230   | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 0.728  | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P20B  
Lab/Sample Number: WBK0468-11 Collect Date: 11/11/21 10:30  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL   | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|-------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |       |                |         |               |           |
| Ammonia/N         | 19.2   | mg/L     | 1.00  | 12/1/21 16:23  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 2100   | mg/L     | 10.0  | 11/16/21 18:56 | ZML     | EPA 300.0     |           |
| pH                | 7.33   | pH Units | 1.00  | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 4600   | mg/L     | 5.00  | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 1.51   | NTU      | 0.100 | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P25  
Lab/Sample Number: WBK0468-12 Collect Date: 11/11/21 09:55  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | 0.184  | mg/L     | 0.0200 | 12/1/21 14:49  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 820    | mg/L     | 25.0   | 11/19/21 14:04 | ZML     | EPA 300.0     |           |
| pH                | 7.42   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 1640   | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 2.62   | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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## Analytical Results Report

(Continued)

Sample Location: 111121 P27  
Lab/Sample Number: WBK0468-13 Collect Date: 11/11/21 12:10  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:50  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 6250   | mg/L     | 20.0   | 11/16/21 18:39 | ZML     | EPA 300.0     |           |
| pH                | 7.09   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 10900  | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 0.571  | NTU      | 0.100  | 11/11/21 16:15 | ARY     | EPA 180.1     |           |

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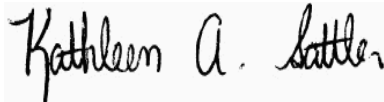
## Analytical Results Report

(Continued)

Sample Location: 111121 FD3  
Lab/Sample Number: WBK0468-14 Collect Date: 11/11/21 14:00  
Date Received: 11/11/21 15:20 Collected By: Craig Sauer  
Matrix: Water

| Analyte           | Result | Units    | PQL    | Analyzed       | Analyst | Method        | Qualifier |
|-------------------|--------|----------|--------|----------------|---------|---------------|-----------|
| <b>Inorganics</b> |        |          |        |                |         |               |           |
| Ammonia/N         | ND     | mg/L     | 0.0200 | 12/1/21 14:51  | TLM     | SM 4500-NH3 H |           |
| Chloride          | 0.968  | mg/L     | 0.100  | 11/23/21 22:31 | ZML     | EPA 300.0     |           |
| pH                | 7.88   | pH Units | 1.00   | 11/11/21 15:00 | ARY     | SM 4500-H-B   |           |
| TDS               | 279    | mg/L     | 5.00   | 11/17/21 13:40 | KAS     | SM 2540 C     | M3        |
| Turbidity         | 1.51   | NTU      | 0.100  | 11/11/21 16:15 | KAS     | EPA 180.1     |           |

Authorized Signature,



Kathleen Sattler, Laboratory Manager

M3 Spike recovery value is unusable. Analyte concentration disproportionate to the spike level. Blank spike recovery acceptable.  
PQL Practical Quantitation Limit  
ND Not Detected  
MCL EPA's Maximum Contaminant Level  
Dry Sample results reported on a dry weight basis  
\* Not a state-certified analyte  
  
RPD Relative Percent Difference  
%REC Percent Recovery  
Source Sample that was spiked or duplicated.

This report shall not be reproduced except in full, without the written approval of the laboratory  
The results reported related only to the samples indicated.

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## **Certifications**

| <b>Code</b> | <b>Description</b>               | <b>Facility</b>    | <b>Number</b> |
|-------------|----------------------------------|--------------------|---------------|
| W WA DOE    | Washington Department of Ecology | Anatek-Spokane, WA | C585          |

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## Quality Control Data

### Inorganics

| Analyte                                | Result | Qual | Reporting Limit | Units | Spike Level                     | Source Result | %REC | %REC Limits | RPD  | RPD Limit |
|----------------------------------------|--------|------|-----------------|-------|---------------------------------|---------------|------|-------------|------|-----------|
| <b>Batch: BBK0436 - W Wet Chem</b>     |        |      |                 |       |                                 |               |      |             |      |           |
| <b>Blank (BBK0436-BLK1)</b>            |        |      |                 |       |                                 |               |      |             |      |           |
| Turbidity                              | ND     |      | 0.100           | NTU   | Prepared & Analyzed: 11/11/2021 |               |      |             |      |           |
| <b>Batch: BBK0449 - W Wet Chem</b>     |        |      |                 |       |                                 |               |      |             |      |           |
| <b>Blank (BBK0449-BLK1)</b>            |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | ND     |      | 5.00            | mg/L  | Prepared & Analyzed: 11/12/2021 |               |      |             |      |           |
| <b>Blank (BBK0449-BLK2)</b>            |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | ND     |      | 5.00            | mg/L  | Prepared & Analyzed: 11/12/2021 |               |      |             |      |           |
| <b>LCS (BBK0449-BS1)</b>               |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | 466    |      |                 | mg/L  | 500                             |               | 93.2 | 80-120      |      |           |
| <b>LCS (BBK0449-BS2)</b>               |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | 481    |      |                 | mg/L  | 500                             |               | 96.2 | 80-120      |      |           |
| <b>Matrix Spike (BBK0449-MS1)</b>      |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | 1590   |      | 5.00            | mg/L  | 500                             | 986           | 120  | 80-120      |      |           |
| <b>Matrix Spike Dup (BBK0449-MSD1)</b> |        |      |                 |       |                                 |               |      |             |      |           |
| TDS                                    | 1470   |      | 5.00            | mg/L  | 500                             | 986           | 96.8 | 80-120      | 7.72 | 20        |
| <b>Batch: BBK0471 - W Ions</b>         |        |      |                 |       |                                 |               |      |             |      |           |
| <b>Blank (BBK0471-BLK1)</b>            |        |      |                 |       |                                 |               |      |             |      |           |
| Chloride                               | ND     |      | 0.100           | mg/L  | Prepared & Analyzed: 11/13/2021 |               |      |             |      |           |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                    | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD  | RPD Limit                       |
|--------------------------------------------|--------|------|-----------------|-------|-------------|---------------|------|-------------|------|---------------------------------|
| <b>Batch: BBK0471 - W Ions (Continued)</b> |        |      |                 |       |             |               |      |             |      |                                 |
| <b>Blank (BBK0471-BLK2)</b>                |        |      |                 |       |             |               |      |             |      |                                 |
| Chloride                                   | ND     |      | 0.100           | mg/L  |             |               |      |             |      | Prepared & Analyzed: 11/12/2021 |
| <b>LCS (BBK0471-BS1)</b>                   |        |      |                 |       |             |               |      |             |      |                                 |
| Chloride                                   | 3.78   |      |                 | mg/L  | 4.00        |               | 94.5 | 90-110      |      | Prepared & Analyzed: 11/12/2021 |
| <b>LCS (BBK0471-BS2)</b>                   |        |      |                 |       |             |               |      |             |      |                                 |
| Chloride                                   | 3.86   |      |                 | mg/L  | 4.00        |               | 96.5 | 90-110      |      | Prepared & Analyzed: 11/13/2021 |
| <b>Batch: BBK0562 - W Ions</b>             |        |      |                 |       |             |               |      |             |      |                                 |
| <b>Blank (BBK0562-BLK1)</b>                |        |      |                 |       |             |               |      |             |      |                                 |
| Chloride                                   | ND     |      | 0.100           | mg/L  |             |               |      |             |      | Prepared & Analyzed: 11/16/2021 |
| <b>LCS (BBK0562-BS1)</b>                   |        |      |                 |       |             |               |      |             |      |                                 |
| Chloride                                   | 3.74   |      |                 | mg/L  | 4.00        |               | 93.4 | 90-110      |      | Prepared & Analyzed: 11/16/2021 |
| <b>Batch: BBK0569 - W Wet Chem</b>         |        |      |                 |       |             |               |      |             |      |                                 |
| <b>Blank (BBK0569-BLK1)</b>                |        |      |                 |       |             |               |      |             |      |                                 |
| TDS                                        | ND     | M3   | 5.00            | mg/L  |             |               |      |             |      | Prepared & Analyzed: 11/17/2021 |
| <b>LCS (BBK0569-BS1)</b>                   |        |      |                 |       |             |               |      |             |      |                                 |
| TDS                                        | 474    | M3   |                 | mg/L  | 500         |               | 94.8 | 80-120      |      | Prepared & Analyzed: 11/17/2021 |
| <b>LCS Dup (BBK0569-BSD1)</b>              |        |      |                 |       |             |               |      |             |      |                                 |
| TDS                                        | 505    | M3   |                 | mg/L  | 500         |               | 101  | 80-120      | 6.33 | 20                              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                        | Result | Qual                      | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                | %REC | %REC<br>Limits | RPD   | RPD<br>Limit |
|------------------------------------------------|--------|---------------------------|--------------------|-------|----------------|---------------------------------|------|----------------|-------|--------------|
| <b>Batch: BBK0569 - W Wet Chem (Continued)</b> |        |                           |                    |       |                |                                 |      |                |       |              |
| <b>Duplicate (BBK0569-DUP1)</b>                |        | <b>Source: WBK0468-09</b> |                    |       |                | Prepared & Analyzed: 11/17/2021 |      |                |       |              |
| TDS                                            | 459    | M3                        | 5.00               | mg/L  |                | 457                             |      |                | 0.437 | 20           |
| <b>Matrix Spike (BBK0569-MS1)</b>              |        | <b>Source: WBK0468-13</b> |                    |       |                | Prepared & Analyzed: 11/17/2021 |      |                |       |              |
| TDS                                            | 10200  | M3                        | 5.00               | mg/L  | 500            | 10900                           | NR   | 80-120         |       |              |
| <b>Matrix Spike Dup (BBK0569-MSD1)</b>         |        | <b>Source: WBK0468-13</b> |                    |       |                | Prepared & Analyzed: 11/17/2021 |      |                |       |              |
| TDS                                            | 10100  | M3                        | 5.00               | mg/L  | 500            | 10900                           | NR   | 80-120         | 1.06  | 20           |
| <b>Batch: BBK0687 - W Ions</b>                 |        |                           |                    |       |                |                                 |      |                |       |              |
| <b>Blank (BBK0687-BLK1)</b>                    |        |                           |                    |       |                | Prepared & Analyzed: 11/19/2021 |      |                |       |              |
| Chloride                                       | ND     |                           | 0.100              | mg/L  |                |                                 |      |                |       |              |
| <b>LCS (BBK0687-BS1)</b>                       |        |                           |                    |       |                | Prepared & Analyzed: 11/19/2021 |      |                |       |              |
| Chloride                                       | 4.00   |                           |                    | mg/L  | 4.00           |                                 | 99.9 | 90-110         |       |              |
| <b>Batch: BBK0689 - W Ions</b>                 |        |                           |                    |       |                |                                 |      |                |       |              |
| <b>Blank (BBK0689-BLK1)</b>                    |        |                           |                    |       |                | Prepared & Analyzed: 11/19/2021 |      |                |       |              |
| Chloride                                       | ND     |                           | 0.100              | mg/L  |                |                                 |      |                |       |              |
| <b>LCS (BBK0689-BS1)</b>                       |        |                           |                    |       |                | Prepared & Analyzed: 11/19/2021 |      |                |       |              |
| Chloride                                       | 4.00   |                           |                    | mg/L  | 4.00           |                                 | 99.9 | 90-110         |       |              |
| <b>Matrix Spike (BBK0689-MS1)</b>              |        | <b>Source: WBK0736-02</b> |                    |       |                | Prepared & Analyzed: 11/19/2021 |      |                |       |              |
| Chloride                                       | 7.52   |                           |                    | mg/L  | 4.00           | 2.90                            | 115  | 80-120         |       |              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                    | Result | Qual | Reporting<br>Limit        | Units | Spike<br>Level                  | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit |
|--------------------------------------------|--------|------|---------------------------|-------|---------------------------------|------------------|------|----------------|------|--------------|
| <b>Batch: BBK0689 - W Ions (Continued)</b> |        |      |                           |       |                                 |                  |      |                |      |              |
| <b>Matrix Spike Dup (BBK0689-MSD1)</b>     |        |      | <b>Source: WBK0736-02</b> |       | Prepared & Analyzed: 11/19/2021 |                  |      |                |      |              |
| Chloride                                   | 7.71   |      |                           | mg/L  | 4.00                            | 2.90             | 120  | 80-120         | 2.51 | 20           |
| <b>Batch: BBK0781 - W Ions</b>             |        |      |                           |       |                                 |                  |      |                |      |              |
| <b>Blank (BBK0781-BLK1)</b>                |        |      |                           |       | Prepared & Analyzed: 11/23/2021 |                  |      |                |      |              |
| Chloride                                   | ND     |      | 0.100                     | mg/L  |                                 |                  |      |                |      |              |
| <b>Blank (BBK0781-BLK2)</b>                |        |      |                           |       | Prepared & Analyzed: 11/24/2021 |                  |      |                |      |              |
| Chloride                                   | ND     |      | 0.100                     | mg/L  |                                 |                  |      |                |      |              |
| <b>LCS (BBK0781-BS1)</b>                   |        |      |                           |       | Prepared & Analyzed: 11/23/2021 |                  |      |                |      |              |
| Chloride                                   | 3.82   |      |                           | mg/L  | 4.00                            |                  | 95.5 | 90-110         |      |              |
| <b>LCS (BBK0781-BS2)</b>                   |        |      |                           |       | Prepared & Analyzed: 11/24/2021 |                  |      |                |      |              |
| Chloride                                   | 3.81   |      |                           | mg/L  | 4.00                            |                  | 95.2 | 90-110         |      |              |
| <b>Matrix Spike (BBK0781-MS1)</b>          |        |      | <b>Source: WBK0812-03</b> |       | Prepared & Analyzed: 11/24/2021 |                  |      |                |      |              |
| Chloride                                   | 6.08   |      |                           | mg/L  | 4.00                            | 2.31             | 94.3 | 80-120         |      |              |
| <b>Matrix Spike Dup (BBK0781-MSD1)</b>     |        |      | <b>Source: WBK0812-03</b> |       | Prepared & Analyzed: 11/24/2021 |                  |      |                |      |              |
| Chloride                                   | 6.25   |      |                           | mg/L  | 4.00                            | 2.31             | 98.3 | 80-120         | 2.61 | 20           |
| <b>Batch: BBK0882 - W Ions</b>             |        |      |                           |       |                                 |                  |      |                |      |              |
| <b>Blank (BBK0882-BLK1)</b>                |        |      |                           |       | Prepared & Analyzed: 11/29/2021 |                  |      |                |      |              |
| Chloride                                   | ND     |      | 0.100                     | mg/L  |                                 |                  |      |                |      |              |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                    | Result | Qual | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit                       |
|--------------------------------------------|--------|------|-----------------|-------|-------------|---------------|------|-------------|-----|---------------------------------|
| <b>Batch: BBK0882 - W Ions (Continued)</b> |        |      |                 |       |             |               |      |             |     |                                 |
| <b>Blank (BBK0882-BLK2)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Chloride                                   | ND     |      | 0.100           | mg/L  |             |               |      |             |     | Prepared & Analyzed: 11/29/2021 |
| <b>LCS (BBK0882-BS1)</b>                   |        |      |                 |       |             |               |      |             |     |                                 |
| Chloride                                   | 3.70   |      |                 | mg/L  | 4.00        |               | 92.5 | 90-110      |     | Prepared & Analyzed: 11/30/2021 |
| <b>LCS (BBK0882-BS2)</b>                   |        |      |                 |       |             |               |      |             |     |                                 |
| Chloride                                   | 3.62   |      |                 | mg/L  | 4.00        |               | 90.5 | 90-110      |     | Prepared & Analyzed: 11/29/2021 |
| <b>Batch: BBL0031 - W FIA</b>              |        |      |                 |       |             |               |      |             |     |                                 |
| <b>Blank (BBL0031-BLK1)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |
| <b>Blank (BBL0031-BLK2)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |
| <b>Blank (BBL0031-BLK3)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |
| <b>Blank (BBL0031-BLK4)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |
| <b>Blank (BBL0031-BLK5)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |
| <b>Blank (BBL0031-BLK6)</b>                |        |      |                 |       |             |               |      |             |     |                                 |
| Ammonia/N                                  | ND     |      | 0.0200          | mg/L  |             |               |      |             |     | Prepared & Analyzed: 12/1/2021  |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual | Reporting Limit              | Units | Spike Level                    | Source Result | %REC | %REC Limits | RPD | RPD Limit |
|-------------------------------------------|--------|------|------------------------------|-------|--------------------------------|---------------|------|-------------|-----|-----------|
| <b>Batch: BBL0031 - W FIA (Continued)</b> |        |      |                              |       |                                |               |      |             |     |           |
| <b>Blank (BBL0031-BLK7)</b>               |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | ND     |      | 0.0200                       | mg/L  |                                |               |      |             |     |           |
| <b>LCS (BBL0031-BS1)</b>                  |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.185  |      | 0.0200                       | mg/L  | 0.200                          |               | 92.6 | 90-110      |     |           |
| <b>LCS (BBL0031-BS2)</b>                  |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.191  |      | 0.0200                       | mg/L  | 0.200                          |               | 95.6 | 90-110      |     |           |
| <b>LCS (BBL0031-BS3)</b>                  |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.186  |      | 0.0200                       | mg/L  | 0.200                          |               | 93.2 | 90-110      |     |           |
| <b>LCS (BBL0031-BS4)</b>                  |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.203  |      | 0.0200                       | mg/L  | 0.200                          |               | 101  | 90-110      |     |           |
| <b>LCS (BBL0031-BS5)</b>                  |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.210  |      | 0.0200                       | mg/L  | 0.200                          |               | 105  | 90-110      |     |           |
| <b>Matrix Spike (BBL0031-MS1)</b>         |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 1.53   |      | Source: WBK0318-02<br>0.0200 | mg/L  | 0.200                          | 1.36          | 86.5 | 80-120      |     |           |
| <b>Matrix Spike (BBL0031-MS2)</b>         |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 1.07   |      | Source: WBK0485-02<br>0.0200 | mg/L  | 0.200                          | 0.859         | 105  | 80-120      |     |           |
| <b>Matrix Spike (BBL0031-MS3)</b>         |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.361  |      | Source: WBK0513-02<br>0.0200 | mg/L  | 0.200                          | 0.187         | 86.7 | 80-120      |     |           |
| <b>Matrix Spike (BBL0031-MS4)</b>         |        |      |                              |       | Prepared & Analyzed: 12/1/2021 |               |      |             |     |           |
| Ammonia/N                                 | 0.364  |      | Source: WBK0769-02<br>0.0200 | mg/L  | 0.200                          | 0.158         | 103  | 80-120      |     |           |

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## Quality Control Data (Continued)

### Inorganics (Continued)

| Analyte                                   | Result | Qual                            | Reporting<br>Limit | Units | Spike<br>Level                 | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit |
|-------------------------------------------|--------|---------------------------------|--------------------|-------|--------------------------------|------------------|------|----------------|-------|--------------|
| <b>Batch: BBL0031 - W FIA (Continued)</b> |        |                                 |                    |       |                                |                  |      |                |       |              |
| <b>Matrix Spike Dup (BBL0031-MSD1)</b>    |        | <b>Source: WBK0318-02</b>       |                    |       | Prepared & Analyzed: 12/1/2021 |                  |      |                |       |              |
| Ammonia/N                                 | 1.55   |                                 | 0.0200             | mg/L  | 0.200                          | 1.36             | 96.9 | 80-120         | 1.36  | 20           |
| <b>Matrix Spike Dup (BBL0031-MSD2)</b>    |        | <b>Source: WBK0485-02</b>       |                    |       | Prepared & Analyzed: 12/1/2021 |                  |      |                |       |              |
| Ammonia/N                                 | 1.08   |                                 | 0.0200             | mg/L  | 0.200                          | 0.859            | 110  | 80-120         | 0.838 | 20           |
| <b>Matrix Spike Dup (BBL0031-MSD3)</b>    |        | <b>Source: WBK0513-02</b>       |                    |       | Prepared & Analyzed: 12/1/2021 |                  |      |                |       |              |
| Ammonia/N                                 | 0.366  |                                 | 0.0200             | mg/L  | 0.200                          | 0.187            | 89.5 | 80-120         | 1.57  | 20           |
| <b>Matrix Spike Dup (BBL0031-MSD4)</b>    |        | <b>Source: WBK0769-02</b>       |                    |       | Prepared & Analyzed: 12/1/2021 |                  |      |                |       |              |
| Ammonia/N                                 | 0.329  |                                 | 0.0200             | mg/L  | 0.200                          | 0.158            | 85.5 | 80-120         | 9.84  | 20           |
| <b>Batch: BCC0552 - W Ions</b>            |        |                                 |                    |       |                                |                  |      |                |       |              |
| <b>Blank (BCC0552-BLK1)</b>               |        | Prepared & Analyzed: 11/15/2021 |                    |       |                                |                  |      |                |       |              |
| Chloride                                  | ND     |                                 | 0.100              | mg/L  |                                |                  |      |                |       |              |



## Chain of Custody Record

**Anatek Labs**  
1282 Alturas Drive, Moscow  
504 E Sprague Ste D, Spokane

WBK0468



Due: 11/30/21

|                                                   |                  |                   |                                                         |  |  |
|---------------------------------------------------|------------------|-------------------|---------------------------------------------------------|--|--|
| Company Name: <u>Great West Engineering</u>       |                  |                   | Project Manager: <u>Craig Sauer</u>                     |  |  |
| Address: <u>9221 N Division St</u>                |                  |                   | Project Name & #: <u>Alcoa Q4 L-Bar</u>                 |  |  |
| City: <u>Spokane</u>                              | State: <u>WA</u> | Zip: <u>99021</u> | Purchase Order #: <u>Alcoa</u>                          |  |  |
| Phone: <u>509-994-9938</u>                        |                  |                   | Sampler Name & Phone: <u>Craig Sauer / 509-994-9938</u> |  |  |
| Email Address(es): <u>csauer@greatwesteng.com</u> |                  |                   |                                                         |  |  |

**Turn Around**

Please refer to our normal turn around times at [www.anateklabs.com/pricing-lists](http://www.anateklabs.com/pricing-lists)

|                                            |             |
|--------------------------------------------|-------------|
| <input checked="" type="checkbox"/> Normal | Phone _____ |
| <input type="checkbox"/> Next Day*         | Email _____ |
| <input type="checkbox"/> 2nd Day*          |             |
| <input type="checkbox"/> Other*            |             |

\*All rush order requests must have prior approval

|        |                       |                    |        | List Analyses Requested |               |              |           |    |  |  |  |  |  | Note Special Instructions/Comments |  |                                                                                      |
|--------|-----------------------|--------------------|--------|-------------------------|---------------|--------------|-----------|----|--|--|--|--|--|------------------------------------|--|--------------------------------------------------------------------------------------|
|        |                       |                    |        | Preservative:           |               |              |           |    |  |  |  |  |  |                                    |  |                                                                                      |
| Lab ID | Sample Identification | Sampling Date/Time | Matrix | # of Containers         | Sample Volume | NH3, CI, TDS | Turbidity | PH |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P12            | 11/11 0750         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  | Additional samples:<br>ms/msd: 111121PW (11/11, 1320)<br>FD: 111121FD3 (11/11, 1400) |
|        | 111121 P13            | 11/11 0825         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 SA10           | 11/11 0920         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 SA11           | 11/11 0905         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 SA14           | 11/11 0850         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P09            | 11/11 1310         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 PW             | 11/11 1320         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P05            | 11/11 1120         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P06            | 11/11 1150         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P19            | 11/11 1100         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P20B           | 11/11 1030         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P25            | 11/11 0955         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |
|        | 111121 P27            | 11/11 1210         | W      | 2                       |               | X            | X         | X  |  |  |  |  |  |                                    |  |                                                                                      |

| Inspection Checklist   |                                     |   |
|------------------------|-------------------------------------|---|
| Received Intact?       | Y                                   | N |
| Labels & Chains Agree? | Y                                   | N |
| Containers Sealed?     | Y                                   | N |
| No VOC Head Space?     | Y                                   | N |
| Cooler?                | <input checked="" type="checkbox"/> | N |
| Ice/Ice Packs Present? | <input checked="" type="checkbox"/> | N |
| Temperature (°C):      | 8-898-70°F                          |   |
| Number of Containers:  |                                     |   |
| Shipped Via:           |                                     |   |
| Preservative:          |                                     |   |
| Date & Time:           |                                     |   |
| Inspected By:          | See Attached                        |   |

|                 | Printed Name    | Signature          | Company        | Date     | Time |
|-----------------|-----------------|--------------------|----------------|----------|------|
| Relinquished by | Duncan Broedlow | <i>[Signature]</i> | Great West Eng | 11/11/21 | 1520 |
| Received by     | Broek Geyr      | <i>[Signature]</i> | Anatek         | 11-11-21 | 1520 |
| Relinquished by |                 |                    |                |          |      |
| Received by     |                 |                    |                |          |      |
| Relinquished by |                 |                    |                |          |      |
| Received by     |                 |                    |                |          |      |

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Subcontracted analyses will be clearly noted on the analytical report.



Anatek Labs, Inc.

# Sample Receipt and Preservation Form

WBK0468



Due: 11/30/21

Client Name: Great West Engineering Project: \_\_\_\_\_ (apply Anatek sample label here)

TAT: Normal RUSH: \_\_\_\_\_ days

Samples Received From: FedEx UPS USPS Client Courier Other: \_\_\_\_\_

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: \_\_\_\_\_

Cooler Temp As Read (°C): 8.8 Cooler Temp Corrected (°C): 8.7 Thermometer Used: 1127<sup>H</sup>

Comments:

Samples Received Intact? Yes No N/A

Chain of Custody Present? Yes No N/A

Samples Received Within Hold Time? Yes No N/A

Samples Properly Preserved? Yes No N/A

VOC Vials Free of Headspace (<6mm)? Yes No N/A

VOC Trip Blanks Present? Yes No N/A

Labels and Chains Agree? Yes No N/A

Total Number of Sample Bottles Received: 26

Chain of Custody Fully Completed? Yes No N/A

Correct Containers Received? Yes No N/A

Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

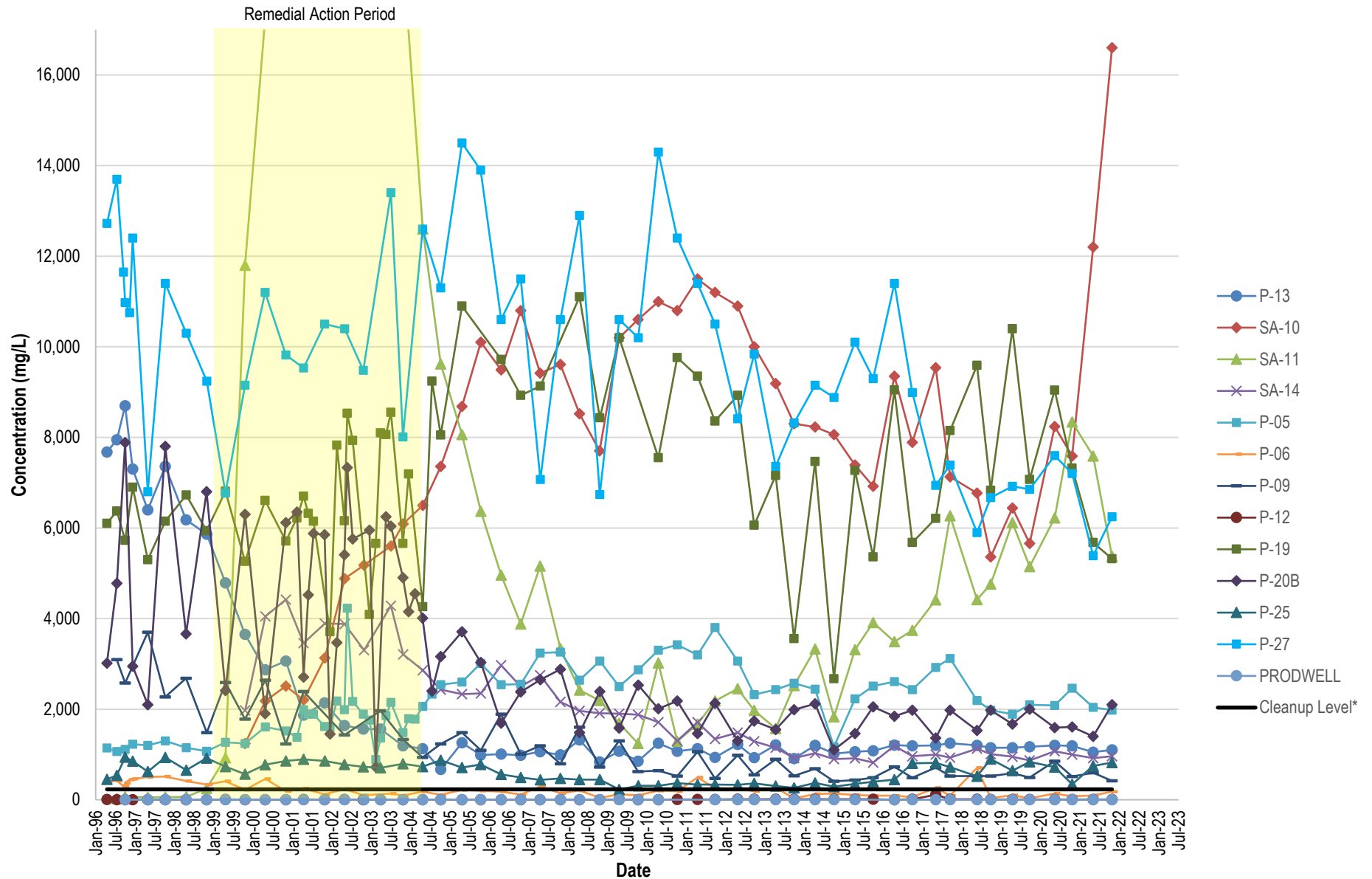
H2SO4 2102389-2  
Ph2001015

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [Signature] Date/Time: 1533 11/11/21

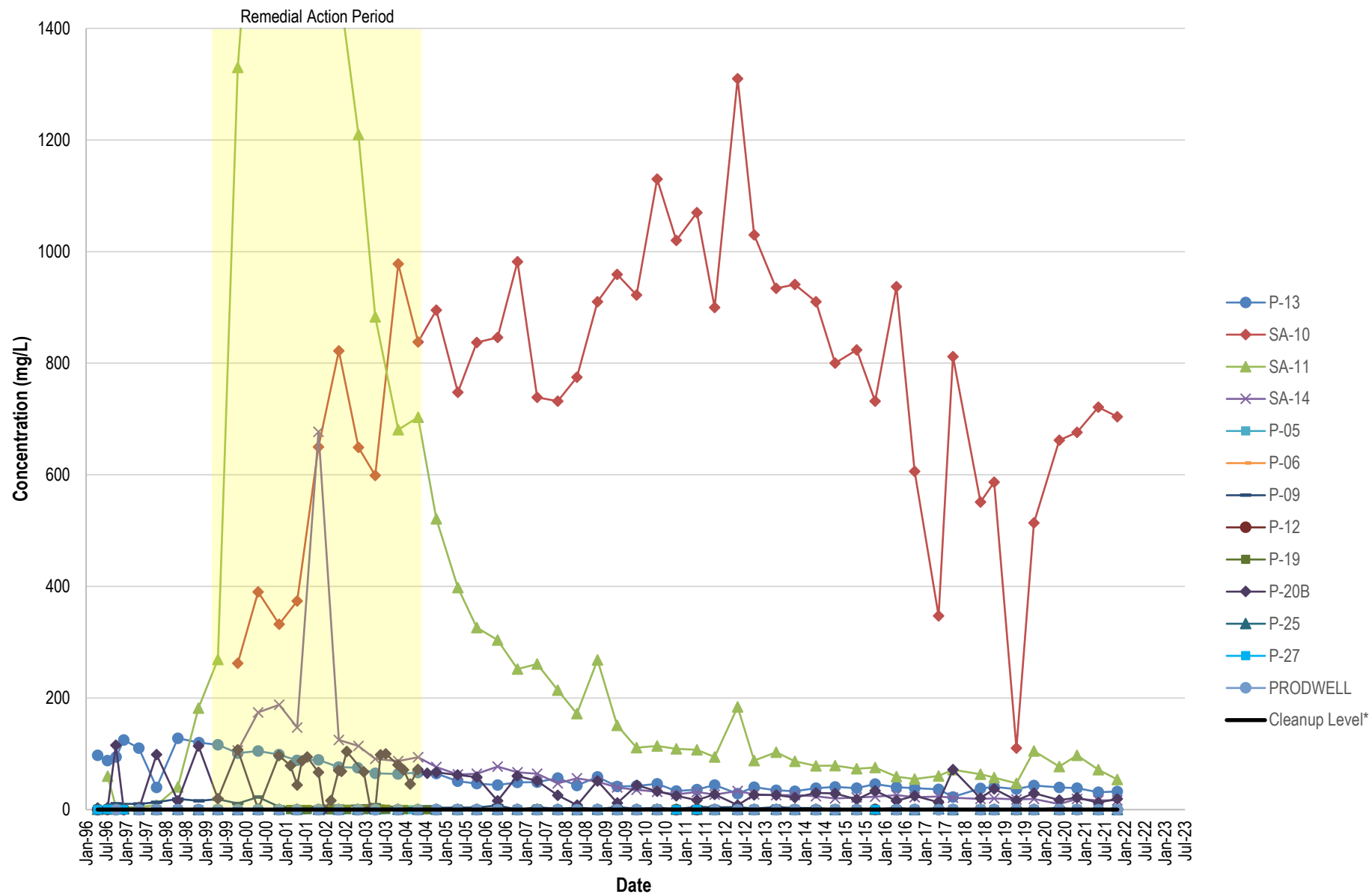
## **Attachment G**

### *Groundwater Time Series Concentration Plots*



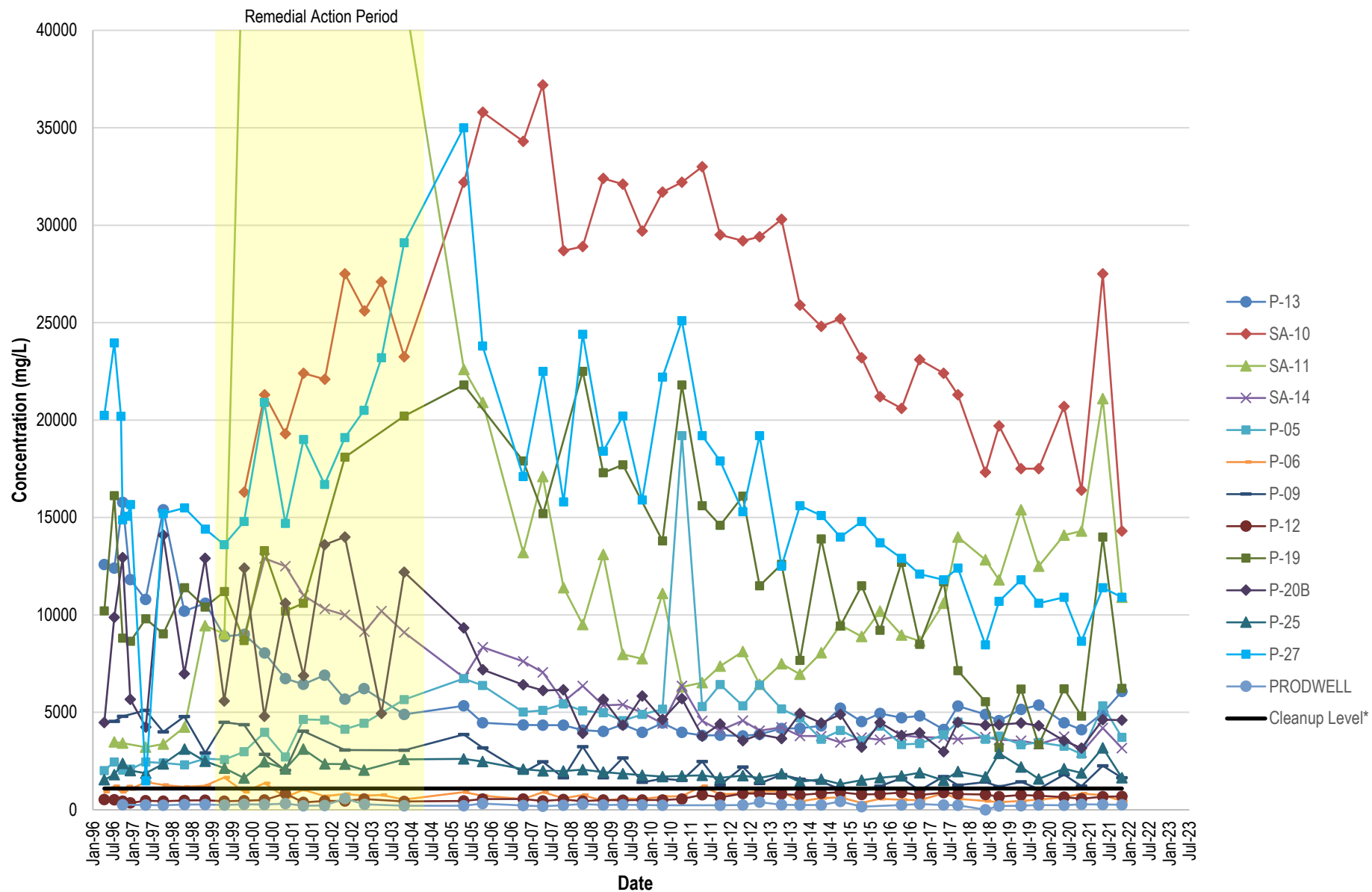
**Notes:**

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for well SA-11.
3. \*Site-Specific Cleanup Level for Chloride is 230 mg/L; reference L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999).



**Notes:**

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for well SA-11.
3. \*Site-Specific Cleanup Level for Ammonia is 0.13 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.



**Notes:**

1. Remedial Action Period 1999-2003; Magnesite Residue Pile Removal in 1999, Covered Pile Removal in 2003, and Main Ditch Closure in 2003.
2. Concentration scale truncated - some high values not shown for SA-11.
3. \*Site-Specific Cleanup Level for TDS is 1092.4 mg/L; reference *L-Bar Cleanup Levels Development and Feasibility Study Report (CH2M HILL, 1999)*.