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2021 NC2 CCR Landfill Annual Groundwater Report

Nebraska City Station NC2
Ash Disposal Area

*Nebraska City, Nebraska
January 31, 2022*



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Professional Engineer Certification

I hereby certify that to the best of my knowledge that this groundwater monitoring annual report is designed to meet the performance standard in 40 CFR Part 257 of the Federal Coal Combustion Residuals (CCR) rule.

I am duly licensed Professional Engineer under the laws of the Sate of Nebraska.

Print Name: Megan B. Seymour

Signature: *Megan B Seymour*

Date: 1-31-2022

License #: E-15931



My license renewal date is December 31, 2022.



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Executive Summary

Omaha Public Power District (OPPD) owns and operates a two-unit fossil fuel-fired generating station (NC1 and NC2), located 5.5 miles southeast of Nebraska City, Nebraska, along the west shore of the Missouri River. This generating station (Station or Site) has two (2) existing coal combustion residual (CCR) landfills for fossil fuel combustion ash disposal: the NC1 Ash Disposal Area and the NC2 Ash Disposal Area. On April 17, 2015, the United States Environmental Protection Agency (EPA) published the final rule for the regulation and management of coal combustion residuals (CCR) under Subtitle D of the Resource Conservation and Recovery Act. The rule is formally promulgated in the U.S. Code of Federal Regulations (CFR), Title 40, Part 257. The purpose of this report is to provide a summary of CCR groundwater monitoring system activities for calendar year 2021 for the assessment monitoring program under 40 CFR §257.95 and corrective action monitoring under 40 CFR §257.96 for the NC2 Ash Disposal Area which is a lined landfill located at the Site.

The NC2 Ash Disposal Area transitioned from detection monitoring to assessment monitoring following the fall 2019 sampling event due to calcium detected as a statistically significant increase (SSI) above the background threshold value in monitoring well NC2MW-2. An alternate source demonstration (ASD) for calcium was unsuccessful, and OPPD published a notification (dated April 24, 2020). An assessment monitoring program was initiated in accordance 40 CFR §257.95 with the first sampling event in April 2020 and subsequent event July 2020. Results of assessment monitoring indicated three statistically significant levels (SSLs) over groundwater protection standards (GWPS); arsenic and lithium in NC2MW-7 and arsenic in NC2MW-8. OPPD published a notification of the exceedances and initiation of assessment of corrective measures (ACM) on November 25, 2020. An ACM report, dated December 22, 2020, was conducted to evaluate potential remedies for constituents with detected SSLs. A public meeting was conducted on August 3, 2021 and on November 15, 2021, OPPD published a Remedy Selection Report (HDR, 2021a). The selected remedial system includes source control of windblown CCR and long-term performance monitoring. Initiation of the selected remedy began in December 2021 with submittal of draft permit modifications to the Nebraska Department of Energy and Environment (NDEE) under NDEE Title 132 regulations.

Groundwater has continued to be monitored at the Site in 2021, in accordance with 40 CFR §257.96. For the April 2021 sampling event, results of the analysis indicated six SSIs above background:

- NC2MW-2: Antimony
- NC2MW-3: Fluoride
- NC2MW-7: Arsenic, Barium, and Lithium
- NC2MW-8: Barium

One new SSI (fluoride in NC2MW-3) was detected in April 2021. Analysis of the assessment monitoring constituents indicated there were two (2) detected SSLs above their GWPS:

- NC2MW-7: Arsenic and Lithium

For the October 2021 sampling event, results of the analysis indicated nine SSIs above background:

- NC2MW-2: Cadmium and Molybdenum
- NC2MW-3: Cobalt
- NC2MW-6: Radium 226 + 228
- NC2MW-7: Arsenic, Barium and Lithium
- NC2MW-8: Barium and Radium 226 + 228

Three new SSIs were detected (molybdenum in NC2MW-2 and Radium 226 + 228 for NC2MW-6 and NC2MW-8). Analysis of the assessment monitoring constituents indicated there were two (2) SSLs detected above their GWPS:

- NC2MW-7: Arsenic and Lithium

Arsenic has been shown to be naturally occurring and highly variable at the NC2 Ash Disposal Area and is therefore not treated as an SSL under the ASD granted by the NDEE correspondence dated May 5, 2020. The site will continue to be monitored semi-annually, as specified in 40 CFR §257.96(b) and will continue implementation of corrective measures in accordance with the schedule specified in the Selection of Remedy Report (HDR, 2021a). The next sampling event is anticipated to occur in April 2022.

1 Introduction

On April 17, 2015, the United States Environmental Protection Agency (EPA) published the final rule for the regulation and management of coal combustion residual (CCR) under Subtitle D of the Resource Conservation and Recovery Act. The CCR rule is formally promulgated in the U.S. Code of Federal Regulations (CFR), Title 40, Part 257. The rule – effective on October 19, 2015 – applies to electric utilities and independent power producers that fall within North American Industry Codes System code 221112, and facilities that produce or store CCR materials in surface impoundments or landfills (EPA, 2015). The CCR rule defines a set of requirements for the disposal and handling of CCR within units (defined as either landfills or surface impoundments). This regulation applies to the Omaha Public Power District (OPPD), Nebraska City Station.

1.1 Purpose

The CCR Rule, 40 CFR §257.90(e), specifies that an owner or operator of an existing CCR landfill prepare an annual groundwater monitoring and corrective action report to summarize key actions completed, problems encountered, and upcoming activities related to the groundwater monitoring system. The information included in this report complies with the requirements established in 40 CFR §257.90(e) of the CCR rule. This report provides a summary of CCR groundwater monitoring system activities for calendar year 2021 for the assessment monitoring program under 40 CFR §257.95 and corrective action monitoring under 40 CFR §257.96 for the NC2 Ash Disposal Area which is a lined landfill located at the Site.

1.2 Facility Information

OPPD owns and operates a two-unit fossil fuel-fired generating station (NC1 and NC2), located 5.5 miles southeast of Nebraska City, Nebraska, along the west shore of the Missouri River (**Figure 1**). This Station has two existing CCR landfills: the NC1 Ash Disposal Area and NC2 Ash Disposal Area. The CCR landfills are permitted under the current Nebraska Department of Environment and Energy (NDEE) 32 and CCR regulations for fossil fuel combustion ash disposal. This annual report covers the NC2 Ash Disposal Area (NDEE Permit No. NE0204421, Facility ID 58343).

The NC2 Ash Disposal Area is an existing CCR lined landfill permitted for 40.7 acres of disposal; Cell 1 (14.5 acres) and the East Leachate Pond were constructed in 2008/2009 and Cells 2 & 3 (26.2 acres), along with the West Leachate Pond, were completed January 23, 2020. Base liners for Cells 1 through 3 were constructed with 24 inches of re-compacted clay overlain by a 60-mil high-density polyethylene geomembrane and geotextile fabric layer. The leachate collection system for Cell 1 collects leachate at the sump and is then pumped to the East Leachate Pond. The leachate collection system for Cells 2 & 3 collects leachate at two sumps, one sump in Cell 2 and one sump in Cell 3, which is then pumped to the West Leachate Pond. **Figure 2** identifies the relevant CCR unit for this report and the supporting groundwater monitoring network.



2 Monitoring Program Summary

The groundwater monitoring network currently consists of three upgradient/background monitoring wells (NC2MW-4, NC2MW-5, and MW-13), four downgradient monitoring wells (NC2MW-2, NC2MW-3, NC2MW-7, and NC2MW-8), and one cross-gradient monitoring well (NC2MW-6). Monitoring well details for the monitoring network, including the date of installation, is provided in **Table 1**. The location of the monitoring wells in the groundwater monitoring program with respect to the CCR unit, NC2 Ash Disposal Area, are shown in **Figure 2**.

2.1 Summary of Monitoring Program Transitions

OPPD complies with Nebraska State regulations (NDEE Title 132) and the EPA’s regulations for the disposal of CCR, as specified in 40 CFR Part 257 (CCR Rule). As part of these regulatory programs, the NC2 Ash Disposal Area is monitored semi-annually under detection or assessment monitoring programs. Under the detection monitoring program, constituents listed in Appendix III of 40 CFR part 257 are evaluated for statistically significant increases (SSIs) above background. Under the assessment monitoring program, constituents listed in Appendix IV of 40 CFR Part 257 are evaluated for SSIs above background and for statistically significant levels (SSLs) over groundwater protection standards (GWPS). The following table outlines the transition of groundwater monitoring programs and subsequent actions and reports.

| Date | Groundwater Compliance Monitoring Milestones |
|------------|--|
| 01/30/2018 | Semi-annual detection monitoring. Potential SSIs during fall 2017 sampling event in downgradient monitoring wells for calcium and pH. A successful alternate source demonstration (ASD) indicated the SSIs resulted from an error in statistical evaluation. |
| 06/06/2018 | Semi-annual detection monitoring. A potential SSI during spring 2018 sampling event in one downgradient monitoring well for pH. A successful ASD indicated the SSI was a result of sampling error. |
| 01/31/2019 | Semi-annual detection monitoring. There were no SSIs during the fall 2018 sampling event. |
| 04/08/2019 | Semi-annual detection monitoring. Potential SSI detected for calcium. Verification sampling on 6/26/2019 indicated the SSI was not confirmed and the network continued with detection monitoring. |
| 10/15/2019 | Semi-annual detection monitoring. Potential SSI detected for calcium. Verification sampling on 01/08/2020 indicated the SSI was confirmed. |
| 4/24/2020 | Notification published for unsuccessful alternate source demonstration (ASD) for calcium within 90-day deadline. Initiation of assessment monitoring program in accordance with 40 CFR §257.95. |
| 4/27/2020 | Initial round of sampling for initiation of assessment monitoring. Background threshold values (BTVs) and GWPS were established for assessment monitoring constituents following the first round of sampling. |
| 07/15/2020 | Second round of sampling for initiation of assessment monitoring. SSIs detected for downgradient wells for calcium, antimony, arsenic, barium, cadmium, cobalt, and lithium. There were two SSLs detected (arsenic and lithium at NC2MW-7). |



| Date | Groundwater Compliance Monitoring Milestones |
|------------|---|
| 10/05/2020 | Semi-annual assessment monitoring. SSIs detected for downgradient wells for calcium, antimony, arsenic, barium, cadmium, and lithium. There were three SSLs detected (arsenic and lithium at NC2MW-7 & arsenic in NC2MW-8). |
| 11/25/2020 | Notification published for detected SSLs and unsuccessful ASD. |
| 12/14/2020 | Initiation of assessment of corrective measures program in accordance with 40 CFR §257.96. |
| 12/22/2020 | Assessment of Corrective Measures Report (HDR, 2020b) to evaluate potential remedies for constituents with detected SSLs. |
| 4/12/2021 | Semiannual Assessment Monitoring. SSIs detected for downgradient wells for antimony, arsenic, barium, fluoride, and lithium. There were two SSLs detected (arsenic and lithium at NC2MW-7). |
| 8/25/2021 | Public meeting conducted to discuss corrective measures (HDR, 2021a). |
| 10/4/2021 | Semiannual Assessment Monitoring. SSIs detected for downgradient wells for arsenic, barium, cadmium, cobalt, radium 226 + 228, and lithium. There were two SSLs detected (arsenic and lithium at NC2MW-7). |
| 11/15/2021 | Remedy Selection Report (HDR, 2021a) to select a remedial system for constituents with detected SSLs. |

2.2 Groundwater Monitoring Network Condition Assessment

OPPD personnel evaluated the condition of each monitoring well in the groundwater monitoring system during the sampling events in April 2021 and October 2021. No repairs were required at the monitoring wells. All wells were noted in good working condition, concrete pads were intact, and no damage was observed to the protective well casings.

3 Data Evaluation and Summary

3.1 Summary of Sampling Activities

Groundwater sampling events were conducted by OPPD personnel in April 2021 and October 2021 as continuation of the semi-annual assessment monitoring program while evaluation of corrective measures was conducted. Samples were collected in general compliance with 40 CFR §257.90(c), which requires groundwater monitoring be conducted throughout the active life and post-closure care period of the CCR unit for each current background and downgradient well in the monitoring network. The number of samples collected for each background and downgradient well during each groundwater sample event, whether the sample was collected during detection or assessment monitoring programs, and the date of each event is summarized in **Table 2**.

Groundwater sampling completed by OPPD personnel was conducted in general accordance with the facility's NDEE Title 132 Groundwater Sampling and Analysis Plan (HDR, 2019c) and the Groundwater Monitoring System Certification (HDR, 2019a). Samples were collected from all background and downgradient network wells. Field sampling forms from the 2021 sampling

events are provided in **Appendix A**. The collected groundwater samples were analyzed by Eurofins TestAmerica. The laboratory analytical reports are provided in **Appendix B**.

3.2 Groundwater Elevations & Flow Direction

Static groundwater level measurements were recorded at the monitoring wells specified in **Table 1** prior to purging and sampling activities conducted during the groundwater sampling events. Groundwater measurements of both monitoring network wells and groundwater elevation only wells, as defined in the CCR Groundwater Monitoring System Certification (HDR, 2019a), were used to determine groundwater contours. Monitoring well static groundwater elevations are provided in **Table 3**. Groundwater measurements collected during the April 2021 sampling event indicated a flow direction to the southeast and an average flow velocity of 0.0128 ft/day to 0.0723 ft/day. Groundwater measurement collected during the October 2021 sampling event indicated a flow direction to the southeast and an average flow velocity of 0.0809 ft/day to 0.00458 ft/day. The April 2021 and October 2021 flow velocities are based on a range of hydraulic conductivity at the Site of 6.96 ft/day to 39.4 ft/day (HDR, 2019a). Estimated groundwater flow direction is consistent with historical observations.

3.3 Assessment Monitoring Groundwater Sampling

Groundwater sampling events were conducted by OPPD personnel in April 2021 and October 2021 as continuation of the semi-annual assessment monitoring program in accordance with 40 CFR §257.96(b). As specified in 40 CFR §257.95(b), monitoring network wells should be resampled at least annually for the full Appendix IV constituent list. In accordance with 40 CFR §257.95(d), monitoring network wells should be resampled at least semi-annually for the full Appendix III constituents and those Appendix IV constituents detected in response to 40 CFR §257.95(b). However, to be conservative, all Appendix III and Appendix IV constituents were analyzed for both the April and October 2021 sampling events. The results of the sampling events conducted in 2021 are presented in **Table 4** (Appendix III constituents) and **Table 5** (Appendix IV constituents).

3.4 Statistical Analysis Results

In the assessment monitoring program, Appendix III and IV constituents are statistically analyzed to evaluate for SSIs above the calculated BTVs, and Appendix IV constituents are statistically analyzed to evaluate for SSLs above the GWPS. Statistical analysis was performed using Sanitas™ Statistical Software in accordance with the methods described in the Groundwater Monitoring Statistical Methods (HDR, 2021b). BTVs are updated every two years in accordance with Chapter 21 of the EPA's Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance (EPA, 2009) or during a monitoring program transition. BTVs and GWPS were set in spring 2020 and the next update is planned for the spring 2022 sampling event. Statistically derived BTVs for Appendix III and IV constituents for detection monitoring are provided in **Table 6**. The established GWPS for all Appendix IV constituents are provided in **Table 7**. Results of the statistical analysis of designated in-network downgradient monitoring wells from the July 2021 and October 2021 sampling events are provided in **Appendix C**.

For the April 2021 sampling event, results of the analysis indicated one SSI above background for detection monitoring constituents and five SSIs for assessment monitoring constituents:

- NC2MW-2: Antimony
- NC2MW-3: Fluoride
- NC2MW-7: Arsenic, Barium, and Lithium
- NC2MW-8: Barium

One new SSI (fluoride in NC2MW-3) was detected. Analysis of the assessment monitoring constituents indicated there were two SSLs detected above their GWPS:

- NC2MW-7: Arsenic and Lithium

A subsequent semi-annual sampling event was conducted in October 2021. Results of the analysis indicated no SSIs above background for detection monitoring constituents and nine (9) SSIs for assessment monitoring constituents:

- NC2MW-2: Cadmium and Molybdenum
- NC2MW-3: Cobalt
- NC2MW-6: Radium 226 + 228
- NC2MW-7: Arsenic, Barium and Lithium
- NC2MW-8: Barium and Radium 226 + 228

Three new SSIs (Molybdenum in NC2MW-2 and Radium 226 + 228 for NC2MW-6 and NC2MW-8) was detected. Radium 226 + 228 concentrations observed in NC2MW-4 and NC2MW-6 were significantly higher than historical data, so resamples are being collected in January 2022. Analysis of the assessment monitoring constituents indicated there were two (2) SSLs detected above their GWPS:

- NC2MW-7: Arsenic and Lithium

Arsenic has been shown to be naturally occurring and highly variable at the NC2 Ash Disposal Area and is therefore not treated as an SSL under the ASD granted by the NDEE correspondence dated May 5, 2020. The site will continue implementation of corrective measures for lithium in accordance with the schedule specified in the Selection of Remedy Report (HDR, 2021a).

3.5 Other Information Required under 40 CFR §257.90-98

In response to previously detected SSIs for arsenic in 2018 and 2019 under NDEE required monitoring, a Groundwater Assessment Report (GAR) was conducted by HDR Engineering, Inc. (HDR) on behalf of OPPD in 2019 to characterize the alternate sources of arsenic at the NC2 Ash Disposal Area (HDR, 2019b). As part of the GAR, upwind/upgradient and downwind/downgradient surface and subsurface soil samples were collected near the NC2 Ash Disposal Area. Additionally, groundwater samples from temporary piezometers and monitoring wells along the downgradient side of the NC2 Ash Disposal Area and ash samples from within the NC2 Ash Disposal Area were collected and analyzed. Surface soil samples, subsurface soil samples, ash samples, leachate samples, and groundwater samples were evaluated to

characterize the NC2 Ash Disposal Area and the nature of the surrounding groundwater. The GAR served as an ASD for arsenic at monitoring well NC2MW-7 and was submitted to NDEE on November 6, 2019. NDEE responded in a May 5, 2020 correspondence stating the ASD for arsenic in NC2MW-7 had been accepted and that arsenic was due to naturally occurring arsenic in the soil and not a result of a release from the NC2 Ash Disposal Area.

Similarly, in response to the previously detected SSI for calcium in 2019 under CCR and NDEE required groundwater monitoring, a Site Assessment Report (SAR) was conducted in February and March 2020 in advance of the initiation of assessment monitoring (HDR, 2020a). HDR, on behalf of OPPD, conducted this additional investigation into two Appendix IV constituents (arsenic and lithium) at the NC2 Ash Disposal Area to evaluate and refine the source(s) of inorganic impacts to groundwater downgradient of the NC2 Ash Disposal Area. The information provided in the SAR was based on a combination of field data obtained during the GAR and field data obtained specifically for the SAR. Data evaluated as part of the SAR included: surface and subsurface soil samples, fly and bottom ash samples, limestone samples, leachate pond and leachate sump samples, clarifier sediment disposal area sediment samples, surface water samples, temporary piezometer groundwater samples, and groundwater samples from permanent monitoring wells and two delineation wells installed as part of the GAR.

Following the July 2020 SSLs for arsenic and lithium, both in NC2MW-7, OPPD was required to characterize the extent of the release and initiate an ACM within 90 days of identifying SSLs in accordance with 40 CFR §257.95(g). Following the October 2020 SSL for arsenic in NC2MW-8, a notification of SSL was prepared and placed in the facility's operating record on November 25, 2020 pursuant to 40 CFR §257.95(g) for all SSLs detected. A Nature and Extent Study (NES) was submitted to NDEE on December 17, 2020 (HDR, 2020b), and an ACM Report (HDR, 2020c) was placed in the facility's operating record on December 22, 2020, both of which were developed by implementing site information obtained through the GAR and SAR.

Results of the site investigations and ACM Report were presented at a public meeting with interested and affected parties on August 25, 2021. The public meeting was held online using Webex™. No comments were received during the meeting or submitted in writing. OPPD published a Remedy Selection Report in November 2021. The selected remedy will be implemented in stages as proposed in the Remedy Selection Report. Draft permit revisions were provided to NDEE during the 2021 reporting period to revise the NDEE Title 132 permit for implementation of the use of a surface binder for dust control as part of the selected remedy.

No other information is required under 40 CFR §257.90-98 at this time.

4 Key Activities for Upcoming Year

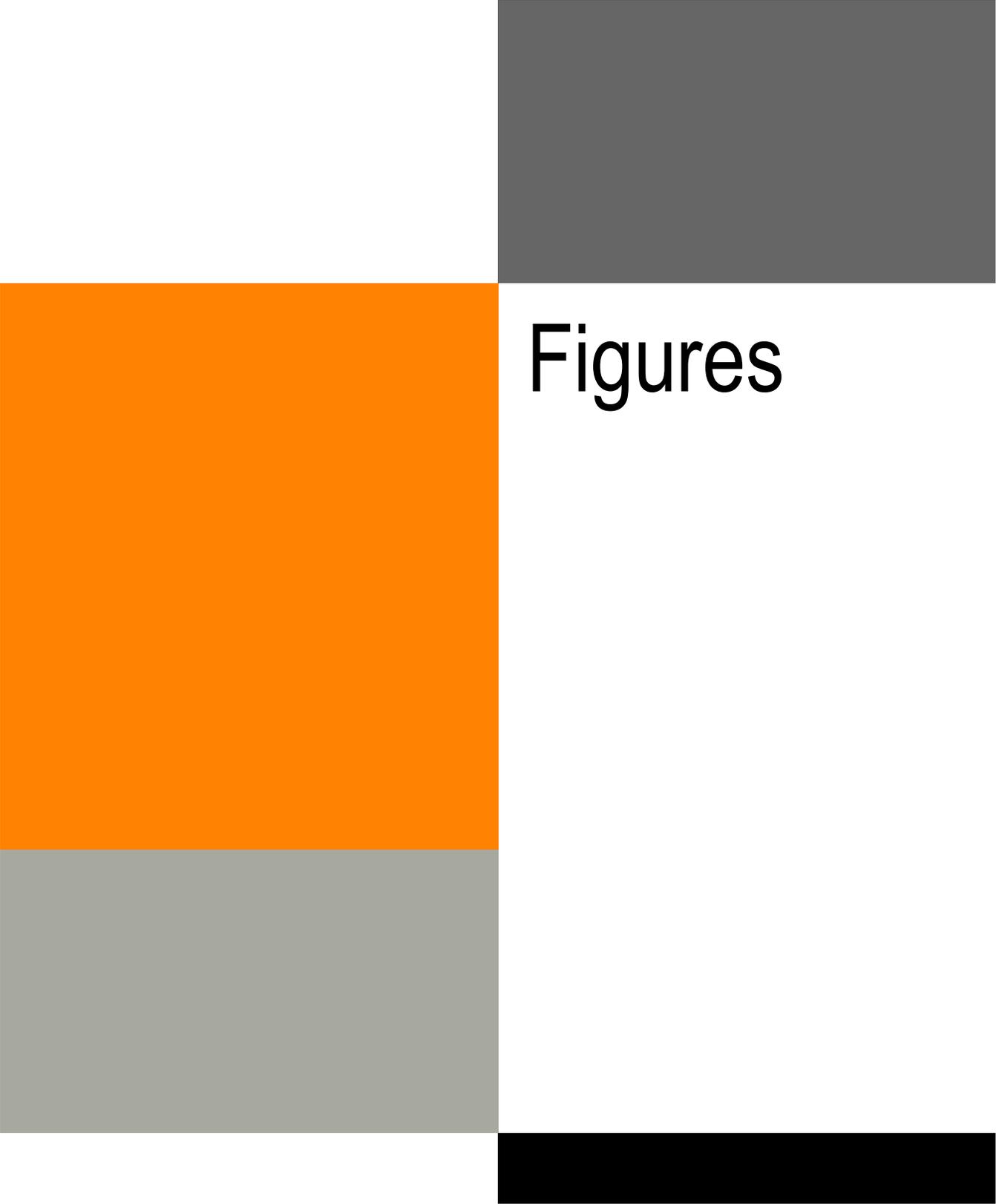
OPPD has selected a remedy for corrective action (HDR, 2021a) and will continue to implement corrective actions in accordance with the schedule listed in the Remedy Selection Report. Ongoing remedial activities will occur in 2022 by implementing a revised fill plan to reduce active areas of the landfill and implementing a surface binder to inactive areas of the landfill. The site will continue to be monitored in accordance with the corrective action monitoring

program as specified in 40 CFR §257.96(b), and the next semi-annual sampling event is anticipated to occur in April 2022.

5 References

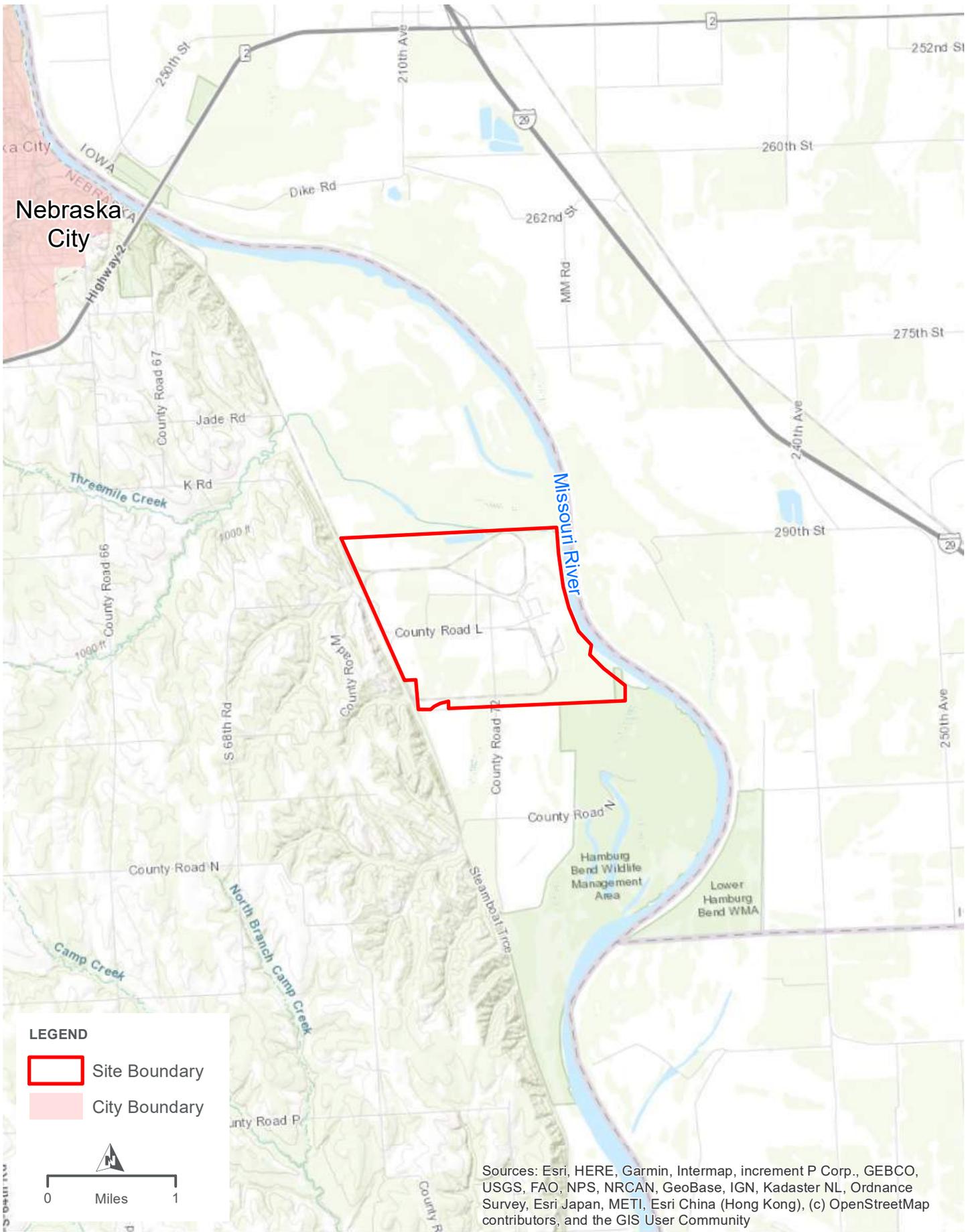
- EPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities: Unified Guidance*. Environmental Protection Agency Office of Resource Conservation and Recovery. EPA 530/R-09-007. March 2009.
- EPA, 2015. 40 CFR parts 257; *Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities*; Final Rule, Federal Register Vol. 80, No. 74. Environmental Protection Agency. April 17, 2015.
- HDR, 2019a. *Groundwater Monitoring System Certification*. Nebraska City Station – NC2 Combustion Ash Landfill. Revised June 2019.
- HDR, 2019b. *Title 132: Groundwater Assessment Report*. Nebraska City Station – NC2 Combustion Ash Landfill. November 6, 2019.
- HDR, 2019c. *Groundwater Sampling and Analysis Plan*. Nebraska City Station – NC2 Combustion Ash Landfill. Revised March 2019.
- HDR, 2020a. *Site Assessment Report*. Nebraska City Station – NC2 Combustion Ash Landfill. June 18, 2020.
- HDR, 2020b. *Title 132: Nature and Extent Study*. Nebraska City Station – NC2 Combustion Ash Landfill. December 17, 2020.
- HDR, 2020c. *Assessment of Corrective Measures Report*. Nebraska City Station – NC2 Combustion Ash Landfill. December 22, 2020.
- HDR, 2021a. *Remedy Selection Report*. Nebraska City Station – NC2 Combustion Ash Landfill. November 15, 2021.
- HDR, 2021b. *Groundwater Monitoring Statistical Methods*. Nebraska City Station – NC2 Combustion Ash Landfill. Revised December 2021.

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A decorative graphic consisting of several overlapping colored rectangles. A large orange rectangle is on the left. A dark grey rectangle is at the top right. A light grey rectangle is at the bottom left. A black rectangle is at the bottom right. The word "Figures" is written in black text on the white background to the right of the orange rectangle.

Figures

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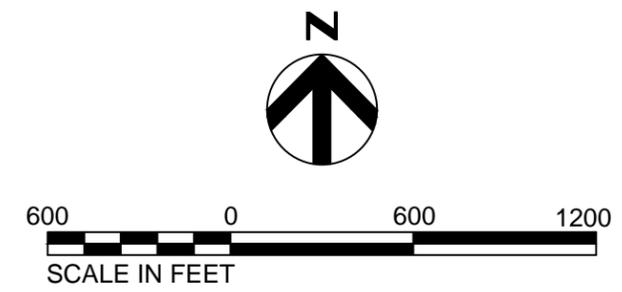
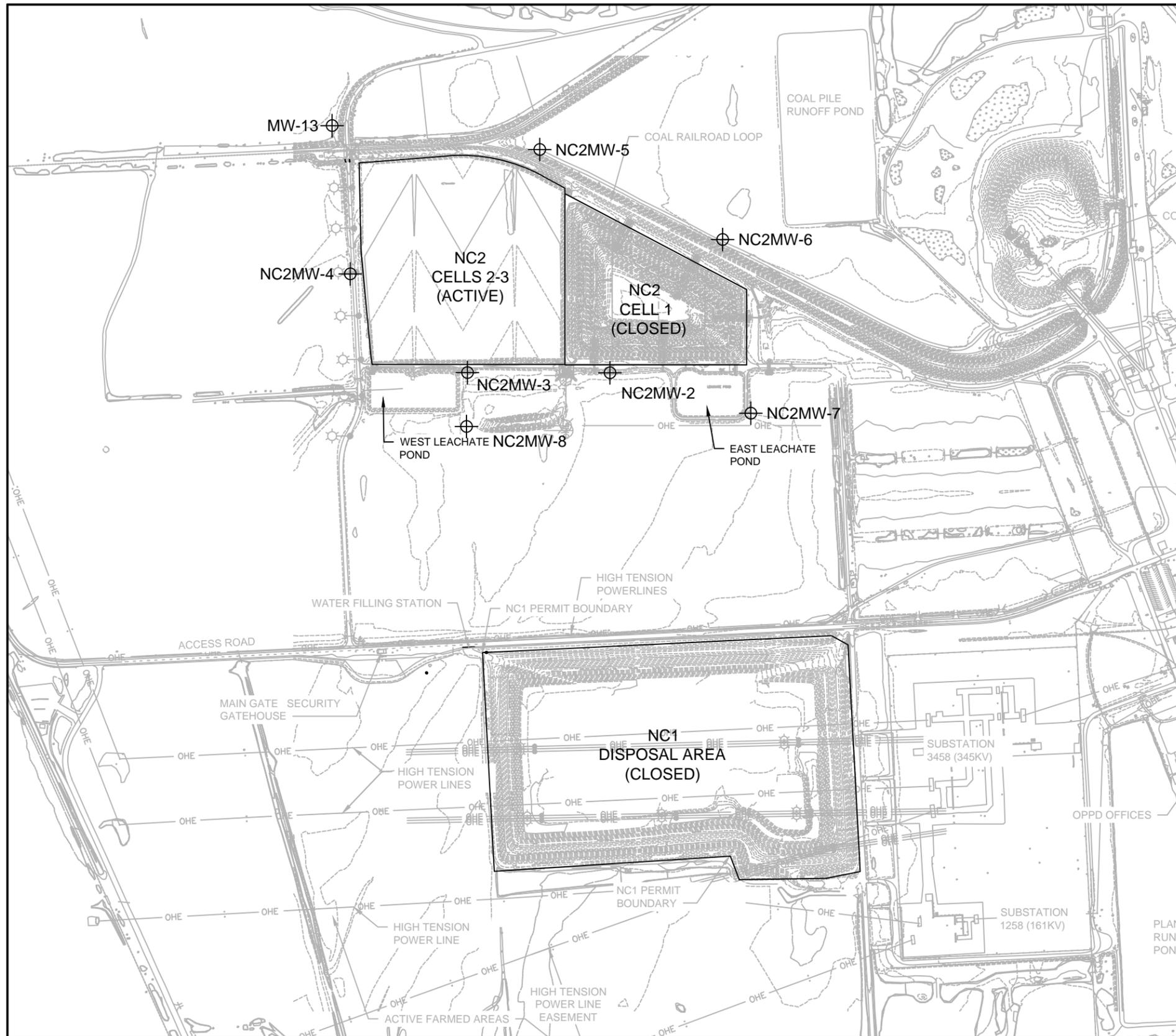
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

SITE LOCATION MAP
OPPD - NEBRASKA CITY STATION

FIGURE 1



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| MONITORING WELL NETWORK | | | | | |
|-------------------------|-----------|------------|-----------------|------------------|--|
| WELL ID | NORTHING | EASTING | ELEVATION (TOC) | WELL DEPTH (BGS) | LOCATION WITH RESPECT TO NC2 ASH DISPOSAL AREA |
| MW-13 | 318186.64 | 2808434.68 | 918.05 | 13.0 | BACKGROUND / UPGRADIENT |
| NC2MW-2 | 316884.69 | 2809902.40 | 922.55 | 17.0 | DOWNGRADIENT |
| NC2MW-3 | 316885.96 | 2809149.54 | 916.22 | 12.0 | DOWNGRADIENT |
| NC2MW-4 | 317405.90 | 2808530.80 | 919.62 | 14.0 | BACKGROUND / UPGRADIENT |
| NC2MW-5 | 318060.54 | 2809531.90 | 922.76 | 15.2 | BACKGROUND / UPGRADIENT |
| NC2MW-6 | 317587.46 | 2810497.97 | 919.72 | 11.0 | CROSSGRADIENT |
| NC2MW-7 | 316671.78 | 2810647.12 | 918.37 | 21.0 | DOWNGRADIENT |
| NC2MW-8 | 316601.90 | 2809145.16 | 918.18 | 15.0 | DOWNGRADIENT |

- NOTES:**
1. TOC - TOP OF CASING
 2. TOP OF CASING ELEVATION DETERMINED BY SURVEY DATA OBTAINED JUNE 2019.
 3. BGS - BELOW GROUND SURFACE
 4. WELL DEPTH MEASUREMENTS REPRESENT DEPTH BELOW GROUND SURFACE.
 5. NORTHING AND EASTING COORDINATES ARE NEBRASKA STATE PLANE WHICH HAVE BEEN TRANSLATED BY THE SURVEYOR.



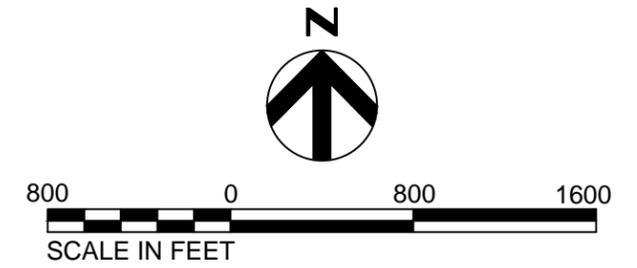
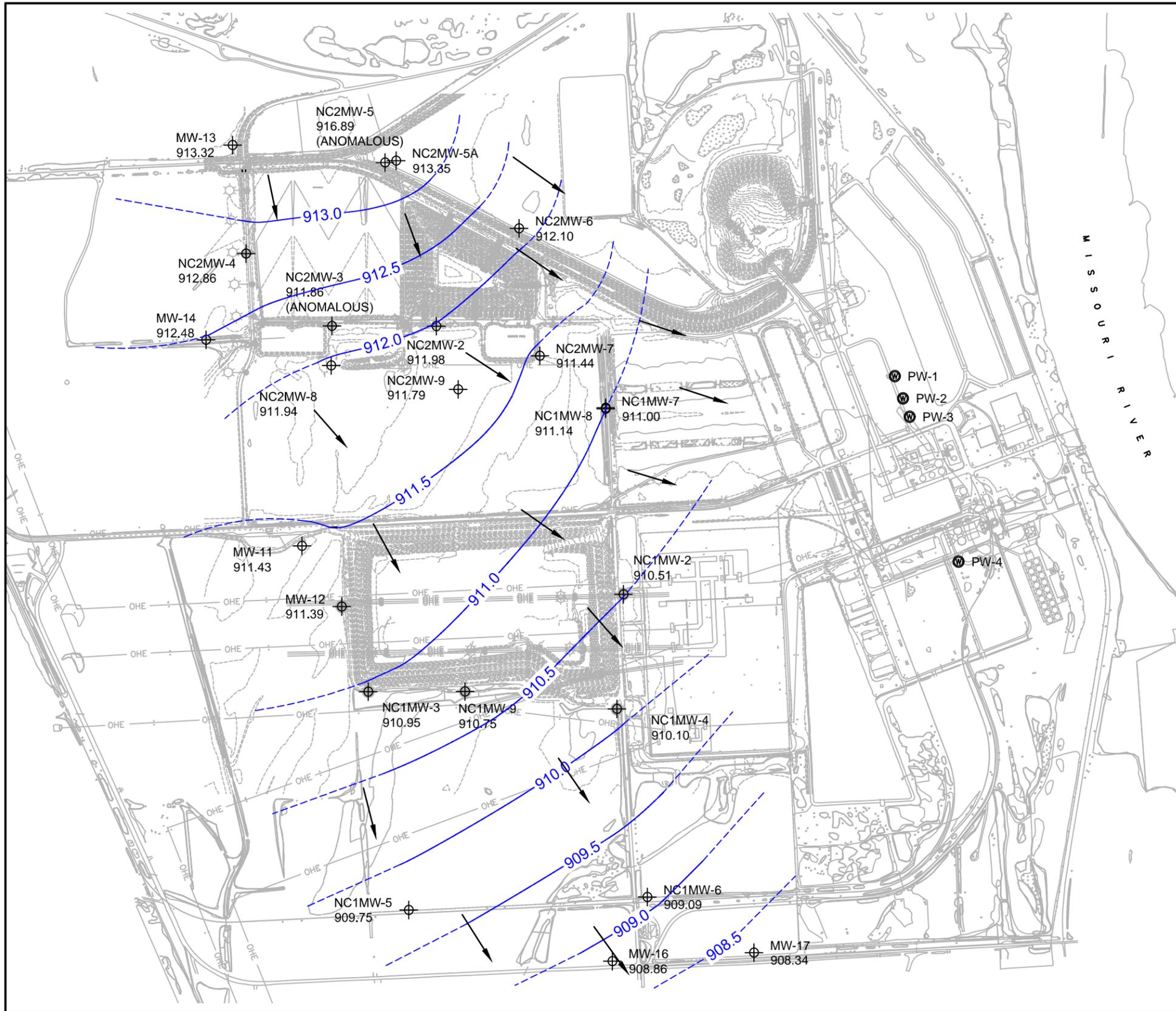
**OPPD NEBRASKA CITY ASH LANDFILL
NEBRASKA CITY UNIT 2 - NC2
MONITORING WELL LOCATION MAP**

2021 GROUNDWATER MONITORING

DATE
JANUARY 2022

FIGURE
02

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- LEGEND:**
- PRODUCTION WELL
 - MONITORING WELL
 - 909.39 GROUNDWATER ELEVATION
 - GROUNDWATER CONTOUR
 - INFERRED GROUNDWATER CONTOUR
 - INFERRED GROUNDWATER FLOW DIRECTION

- NOTES:**
1. ANOMALOUS - WATER LEVELS LABELED AS SUCH HAVE BEEN OMITTED FROM THE GROUNDWATER CONTOUR DUE TO VAST VARIATIONS IN GROUNDWATER ELEVATIONS BETWEEN WELLS WITH CLOSE PROXIMITY.
 2. MONITORING WELL NC1MW-7 WAS NOT USED IN GENERATION OF CONTOUR MAP DUE TO BEING SCREENED AT A DEEPER INTERVAL.

VELOCITY COMPUTATIONS

TRACER VELOCITY = $V_T = \frac{K_i}{n}$
 K = HYDRAULIC CONDUCTIVITY (SEE TABLE)
 i = GRADIENT = $\frac{0.743 \text{ FT}}{1,000 \text{ FT}} = 0.000743 \text{ FT/FT}$
 n = POROSITY = 0.405

| | K | V _T |
|------|-------------|----------------|
| LOW | 6.96 FT/DAY | 0.0128 FT/DAY |
| HIGH | 39.4 FT/DAY | 0.0723 FT/DAY |



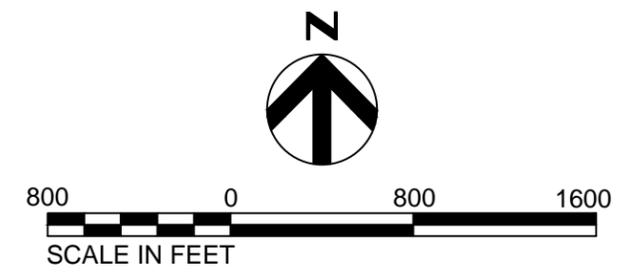
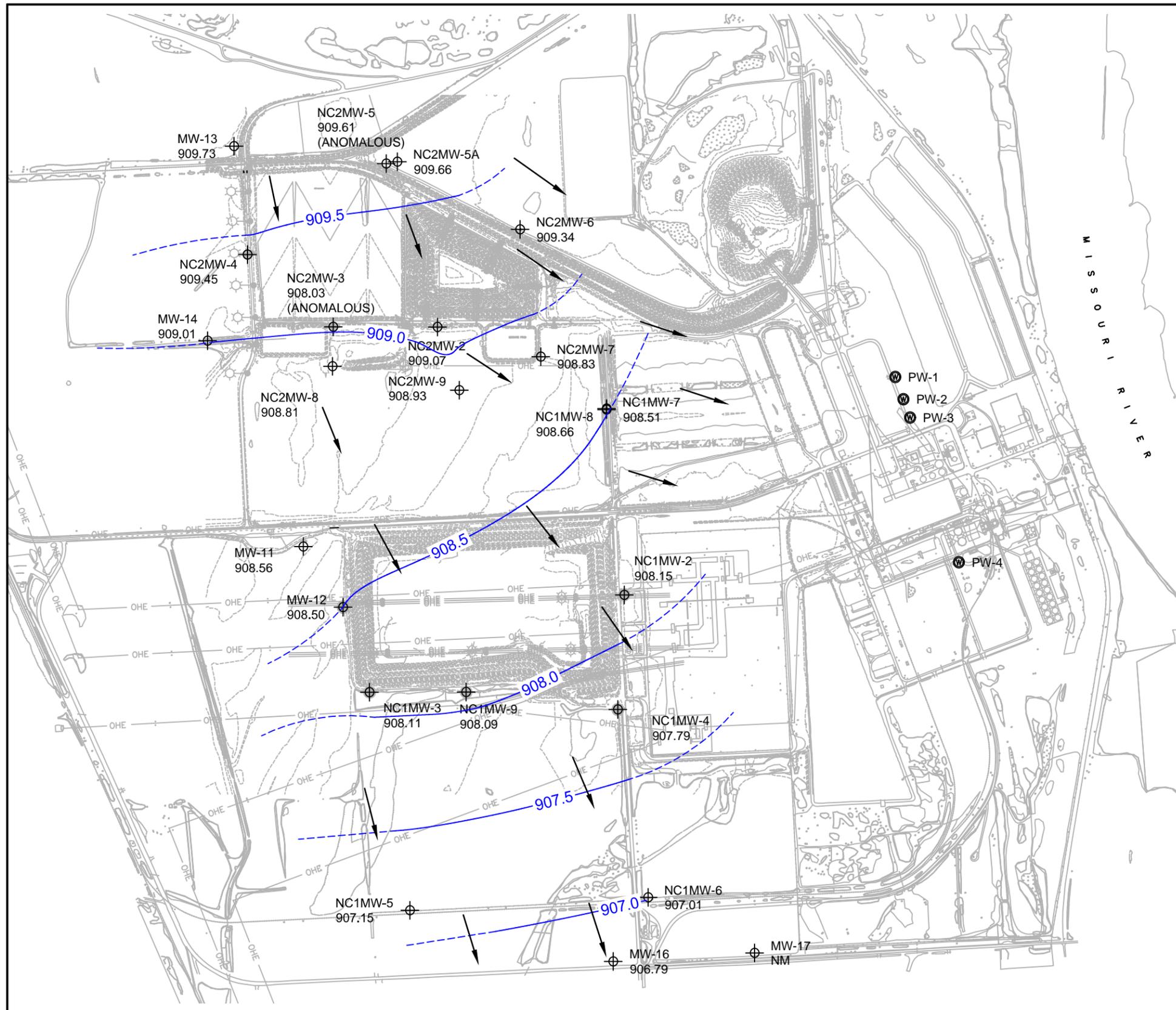
**OPPD NEBRASKA CITY ASH LANDFILL
 GROUNDWATER CONTOUR MAP
 APRIL 2021**

2021 GROUNDWATER MONITORING

DATE
 JANUARY 2022

FIGURE
 03

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- LEGEND:**
- PRODUCTION WELL
 - MONITORING WELL
 - 908.83 GROUNDWATER ELEVATION
 - GROUNDWATER CONTOUR
 - INFERRED GROUNDWATER CONTOUR
 - INFERRED GROUNDWATER FLOW DIRECTION

- NOTES:**
1. ANOMALOUS - WATER LEVELS LABELED AS SUCH HAVE BEEN OMITTED FROM THE GROUNDWATER CONTOUR DUE TO VAST VARIATIONS IN GROUNDWATER ELEVATIONS BETWEEN WELLS WITH CLOSE PROXIMITY.
 2. MONITORING WELL NC1MW-7 WAS NOT USED IN GENERATION OF CONTOUR MAP DUE TO BEING SCREENED AT A DEEPER INTERVAL.
 3. NM - STATIC WATER LEVEL NOT OBTAINED FROM MONITORING WELL.

VELOCITY COMPUTATIONS

TRACER VELOCITY = $V_T = \frac{K_i}{n}$
 K = HYDRAULIC CONDUCTIVITY (SEE TABLE)
 $i = \text{GRADIENT} = \frac{0.471 \text{ FT}}{1,000 \text{ FT}} = 0.000471 \text{ FT/FT}$
 n = POROSITY = 0.405

| | K | V_T |
|------|-------------|----------------|
| LOW | 6.96 FT/DAY | 0.00809 FT/DAY |
| HIGH | 39.4 FT/DAY | 0.0458 FT/DAY |

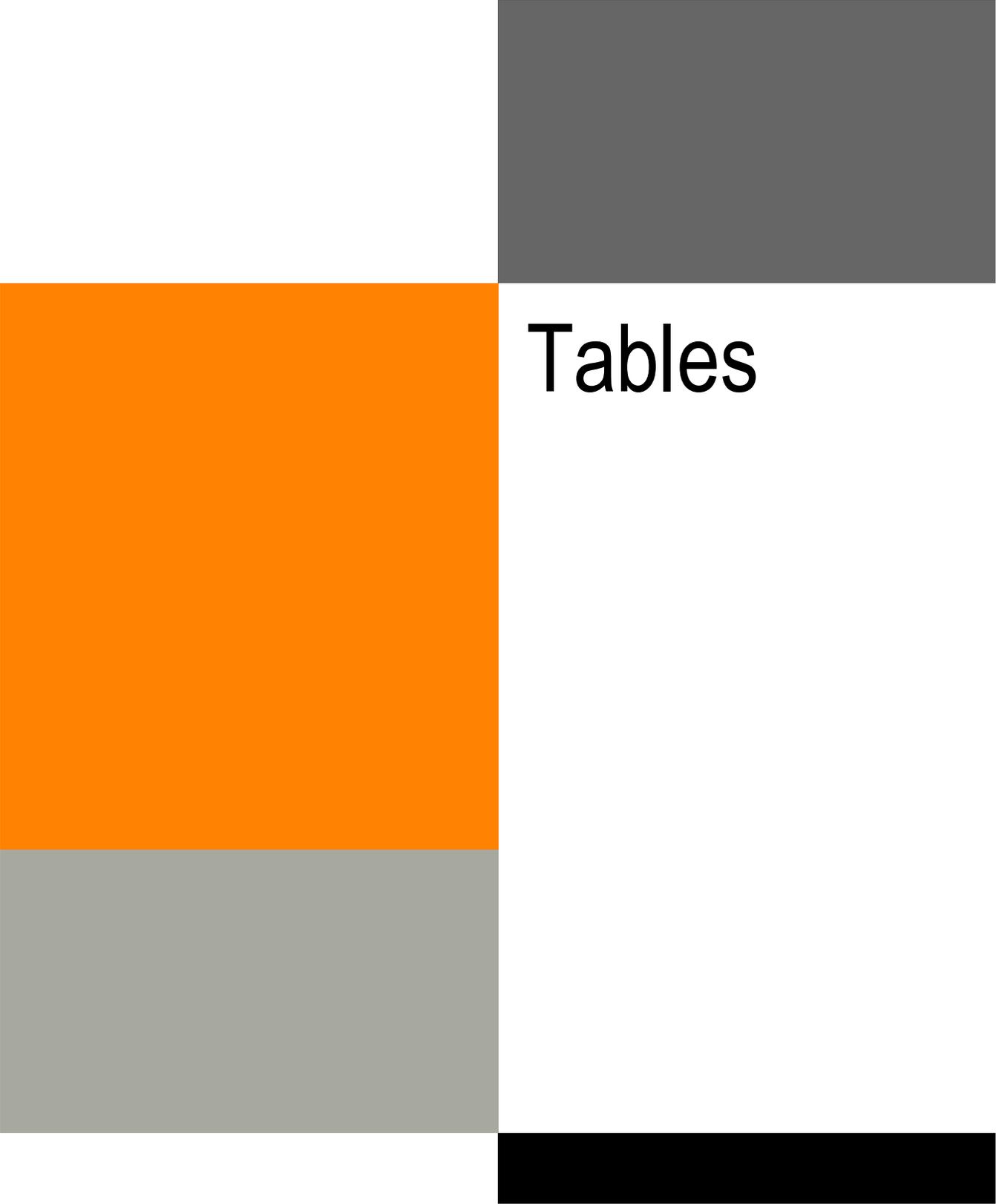


**OPPD NEBRASKA CITY ASH LANDFILL
 GROUNDWATER CONTOUR MAP
 OCTOBER 2021**

2021 GROUNDWATER MONITORING

DATE
 JANUARY 2022
 FIGURE
 04

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Tables

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Table 1 - Groundwater Monitoring System
 Omaha Public Power District - NC2 Ash Disposal Area

| Monitoring Well ID | Date Installed | Well Depth (feet bgs) | Location w/ respect to NC2 Ash Disposal Area | Ground Surface Elevation (feet AMSL) | Top of Well Casing Elevation (feet AMSL) |
|-------------------------------------|----------------|-----------------------|--|--------------------------------------|--|
| CCR Monitoring Network Wells | | | | | |
| NC2MW-2 | 9/8/2004 | 17 | Downgradient | 919.80 | 922.55 |
| NC2MW-3 | 9/8/2004 | 16 | Downgradient | 913.30 | 919.58 |
| NC2MW-4 | 9/8/2004 | 14 | Background/Upgradient | 917.07 | 919.62 |
| NC2MW-5 | 9/16/2004 | 16 | Background/Upgradient | 919.34 | 922.76 |
| NC2MW-6 | 9/7/2004 | 14 | Crossgradient | 916.30 | 919.72 |
| NC2MW-7 | 11/6/2013 | 24 | Downgradient | 915.11 | 918.20 |
| NC2MW-8 | 7/9/2018 | 15 | Downgradient | 915.20 | 917.97 |
| MW-13 | 1/26/2016 | 13 | Background/Upgradient | 915.97 | 918.05 |
| Water Level Only Wells | | | | | |
| NC1MW-2 | 3/14/1995 | 17.8 | Downgradient | 917.23 | 919.42 |
| NC1MW-3 | 3/13/1995 | 19.5 | Downgradient | 917.10 | 919.85 |
| NC1MW-4 | 3/13/1995 | 20.3 | Downgradient | 916.79 | 919.63 |
| NC1MW-5 | 3/17/1995 | 16.6 | Downgradient | 917.61 | 920.70 |
| NC1MW-6 | 3/13/1995 | 16.5 | Downgradient | 914.01 | 916.67 |
| NC1MW-7 | 1/20/1999 | 40.5 | Downgradient | 917.12 | 919.20 |
| NC1MW-8 | 1/21/1999 | 20.0 | Downgradient | 917.19 | 919.68 |
| NC1MW-9 | 1/21/1999 | 20.0 | Downgradient | 917.52 | 920.09 |
| NC2MW-5A | 9/16/2019 | 17.2 | Upgradient | 919.13 | 922.05 |
| NC2MW-9 | 9/17/2019 | 18.0 | Downgradient | 917.49 | 920.35 |
| MW-11 | 1/16/2004 | 20.0 | Downgradient | 911.90 | 918.44 |
| MW-12 | 3/26/2004 | 18.1 | Downgradient | 917.91 | 920.36 |
| MW-14 | 7/12/2018 | 18.0 | Downgradient/Crossgradient | 917.99 | 920.99 |

bgs - below ground surface

AMSL - above mean sea level

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Table 2 - Groundwater Sampling Event Summary
Omaha Public Power District - NC2 Ash Disposal Area

| Monitoring Well ID | # of Initial Background Samples | Initial Background Sample Dates | # of Detection Monitoring Samples ^{[1], [6]} | Detection Monitoring Sample Dates | # of Assessment Monitoring Samples | Assessment Monitoring Sample Dates |
|--|---------------------------------|--|---|---|------------------------------------|---|
| Current background Monitoring Wells | | | | | | |
| NC2MW-4 ^[5] | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 7 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 4/8/2019, 10/15/2019, 1/30/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| NC2MW-5 | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 7 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 4/8/2019, 10/15/2019, 1/30/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| MW-13 ^{[2], [3], [5]} | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 5 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 1/30/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| Downgradient Monitoring Wells | | | | | | |
| NC2MW-2 | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 8 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 4/8/2019, 9/23/2019, 10/15/2019, 1/31/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| NC2MW-3 ^[2] | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 7 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 9/23/2019, 10/15/2019, 1/31/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| NC2MW-6 | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 7 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 4/8/2019, 10/15/2019, 1/31/2020 | 5 | 4/27/2020, 7/14/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| NC2MW-7 | 8 | 3/14/2016, 6/3/2016, 8/31/2016, 11/17/2016, 2/15/2017, 4/24/2017, 6/15/2017, 7/12/2017 | 8 | 11/9/2017, 3/12/2018, 6/6/2018, 10/3/2018, 4/8/2019, 9/23/2019, 10/15/2019, 2/3/2020 | 5 | 4/27/2020, 7/15/2020, 10/5/2020, 4/12/2021, 10/4/2021 |
| NC2MW-8 ^[2] | 8 ^[4] | 10/3/2018, 1/15/2019, 3/5/2019, 9/23/2019, 10/16/2019, 1/31/2020, 4/27/2020, 7/14/2020 | 0 | N/A | 3 | 10/5/2020, 4/12/2021, 10/4/2021 |

^[1] The number of detection monitoring samples includes the 3/12/2018 event, which occurred as part of an Alternative Source Demonstration.

^[2] MW-13, NC2MW-3, and NC2MW-8 were submerged under water during April 2019 sampling event and were not sampled.

^[3] MW-13 was surrounded by ponding water during October 2019 sampling event and was not sampled.

^[4] NC2MW-8 was installed July 9, 2018 and was added to the Groundwater Monitoring System Certification in June 2019. The 9/23/2019 sampling event was part of an Alternative Source Demonstration for the Title 132 Groundwater Assessment Report.

^[5] Background wells have been sampled on more dates than are listed for the initial background and detection monitoring sample dates. This is due to two background wells (NC2MW-4 and MW-13) being sampled for both NC1 and NC2 Ash Disposal Areas. Sampling dates for the NC1 Ash Disposal Area have not been included in the sampling event summary, but are included within the dataset used for statistical analysis.

^[6] Four wells, NC2MW-2, NC2MW-3, NC2MW-7, and NC2MW-8, were sampled during the 9/23/2019 fieldwork as part of an Alternative Source Demonstration for the Title 132 Groundwater Assessment Report .

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Table 3 - Groundwater Elevations

Omaha Public Power District - NC2 Ash Disposal Area

| CCR Monitoring Network Wells | | | | | | | | | | | | | | | | |
|------------------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|--------------------------------|---------------------|
| NC2MW-4 | | NC2MW-5 | | MW-13 | | NC2MW-2 | | NC2MW-3 | | NC2MW-6 | | NC2MW-7 | | NC2MW-8 | | |
| TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | |
| 919.62 | | 922.76 | | 918.05 | | 922.55 | | 919.58 | | 919.72 | | 918.20 | | 917.97 | | |
| Date | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) | Measured Depth to Water (ft) | GW Elevation (AMSL) |
| 3/14/2016 | 6.91 | 912.71 | 6.98 | 915.78 | 4.75 | 913.30 | 10.80 | 911.75 | 4.05 | 915.53 | 7.95 | 911.77 | 7.04 | 911.16 | <i>Well Installed 7/9/2018</i> | |
| 6/3/2016 | 5.62 | 914.00 | 7.67 | 915.09 | 3.51 | 914.54 | 8.96 | 913.59 | 2.55 | 917.03 | 6.02 | 913.70 | 4.80 | 913.40 | | |
| 8/31/2016 | 5.05 | 914.57 | 5.30 | 917.46 | 2.85 | 915.20 | 8.91 | 913.64 | 2.31 | 917.27 | 5.95 | 913.77 | 5.40 | 912.80 | | |
| 11/17/2016 | 6.80 | 912.82 | 9.25 | 913.51 | 4.40 | 913.65 | 10.90 | 911.65 | 4.10 | 915.48 | 8.10 | 911.62 | 7.20 | 911.00 | | |
| 2/15/2017 | 7.50 | 912.12 | 10.20 | 912.56 | 5.21 | 912.84 | 11.70 | 910.85 | 4.95 | 914.63 | 9.00 | 910.72 | 8.15 | 910.05 | | |
| 4/24/2017 | 6.11 | 913.51 | 8.48 | 914.28 | 4.00 | 914.05 | 9.85 | 912.70 | 3.21 | 916.37 | 7.00 | 912.72 | 5.96 | 912.24 | | |
| 6/15/2017 | 6.75 | 912.87 | 9.82 | 912.94 | 4.70 | 913.35 | 10.30 | 912.25 | 3.42 | 916.16 | 7.35 | 912.37 | 6.35 | 911.85 | | |
| 7/12/2017 | 7.11 | 912.51 | 10.15 | 912.61 | 5.02 | 913.03 | 10.76 | 911.79 | 4.25 | 915.33 | 7.90 | 911.82 | 6.80 | 911.40 | | |
| 11/9/2017 | 12.20 | 907.42 | 14.20 | 908.56 | 8.25 | 909.80 | 15.10 | 907.45 | 12.10 | 907.48 | 11.20 | 908.52 | 10.50 | 907.70 | | |
| 3/12/2018 | 10.18 | 909.44 | 12.95 | 909.81 | 8.10 | 909.95 | 13.90 | 908.65 | 7.15 | 912.43 | 10.88 | 908.84 | 10.00 | 908.20 | | |
| 6/6/2018 | 6.80 | 912.82 | 9.70 | 913.06 | 4.65 | 913.40 | 10.35 | 912.20 | 3.70 | 915.88 | 7.25 | 912.47 | 6.35 | 911.85 | | |
| 10/3/2018 | 4.14 | 915.48 | 4.95 | 917.81 | 1.63 | 916.42 | 7.39 | 915.16 | 0.80 | 918.78 | 4.30 | 915.42 | 3.20 | 915.00 | 3.15 | 914.82 |
| 3/5/2019 | N.M. | N.M. | 6.67 | 911.30 |
| 4/8/2019 ^[1] | 3.53 | 916.09 | 4.56 | 918.20 | N.M. | N.M. | 6.70 | 915.85 | N.M. | N.M. | 4.18 | 915.54 | 2.74 | 915.46 | N.M. | N.M. |
| 10/14/2019 ^[2] | 3.47 | 916.15 | 4.48 | 918.28 | N.M. | N.M. | 6.34 | 916.21 | 0.21 | 919.37 | 3.75 | 915.97 | 2.27 | 915.93 | 2.38 | 915.59 |
| 1/30/2020 | 5.44 | 914.18 | 5.81 | 916.95 | 3.39 | 914.66 | 9.09 | 913.46 | 2.56 | 917.02 | 6.11 | 913.61 | 5.37 | 912.83 | 4.75 | 913.22 |
| 4/20/2020 | 5.24 | 914.38 | 6.37 | 916.39 | 2.94 | 915.11 | 8.83 | 913.72 | 2.36 | 917.22 | 5.97 | 913.75 | 4.99 | 913.21 | 4.59 | 913.38 |
| 7/14/2020 | 7.19 | 912.43 | 10.02 | 912.74 | 5.23 | 912.82 | 10.44 | 912.11 | 7.89 | 911.69 | 7.45 | 912.27 | 6.32 | 911.88 | 6.28 | 911.69 |
| 10/5/2020 | 9.65 | 909.97 | 12.63 | 910.13 | 7.76 | 910.29 | 12.92 | 909.63 | 10.34 | 909.24 | 9.90 | 909.82 | 8.81 | 909.39 | 8.68 | 909.29 |
| 4/6/2021 | 6.76 | 912.86 | 5.87 | 916.89 | 4.73 | 913.32 | 10.57 | 911.98 | 7.72 | 911.86 | 7.62 | 912.10 | 6.76 | 911.44 | 6.03 | 911.94 |
| 10/1/2021 | 10.17 | 909.45 | 13.15 | 909.61 | 8.32 | 909.73 | 13.48 | 909.07 | 11.55 | 908.03 | 10.38 | 909.34 | 9.37 | 908.83 | 9.16 | 908.81 |

TOC = Top of PVC well casing

N.M. = not measured

AMSL = above mean sea level

^[1] MW-13, NC2-MW-3, and NC2-MW-8 were surrounded by ponding water during April 2019 sampling event and were not measured.

^[2] MW-13 was surrounded by ponding water during October 2019 sampling event and was not measured.

Table 3 - Groundwater Elevations

Omaha Public Power District - NC2 Ash Disposal Area

| Water Level Only Wells | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|
| NC1MW-2 | | NC1MW-3 | | NC1MW-4 | | NC1MW-5 | | NC1MW-6 | | NC1MW-7 | | NC1MW-8 | | NC1MW-9 | | NC2MW-5A | | |
| TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | |
| 919.42 | | 919.85 | | 919.63 | | 920.70 | | 916.67 | | 919.20 | | 919.68 | | 920.09 | | 922.05 | | |
| Date | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) |
| 3/9/2016 | 8.90 | 910.52 | 8.95 | 910.90 | 9.50 | 910.13 | 10.82 | 909.88 | 7.55 | 909.12 | 8.25 | 910.95 | 8.60 | 911.08 | 9.30 | 910.79 | Well Installed 9/16/2019 | |
| 6/7/2016 | 7.04 | 912.38 | 7.75 | 912.10 | 7.41 | 912.22 | 9.67 | 911.03 | 6.31 | 910.36 | 6.43 | 912.77 | 6.80 | 912.88 | 7.88 | 912.21 | | |
| 10/3/2016 | 8.45 | 910.97 | 8.35 | 911.50 | 9.10 | 910.53 | 12.99 | 907.71 | 6.86 | 909.81 | 7.94 | 911.26 | 8.53 | 911.15 | 8.76 | 911.33 | | |
| 11/18/2016 | 9.30 | 910.12 | 9.36 | 910.49 | 10.10 | 909.53 | 11.25 | 909.45 | 8.20 | 908.47 | 8.72 | 910.48 | 9.10 | 910.58 | 7.75 | 912.34 | | |
| 2/14/2017 | 10.10 | 909.32 | 9.91 | 909.94 | 10.85 | 908.78 | 11.70 | 909.00 | 8.80 | 907.87 | 9.60 | 909.60 | 10.00 | 909.68 | 10.41 | 909.68 | | |
| 4/25/2017 | 8.10 | 911.32 | 8.25 | 911.60 | 8.84 | 910.79 | 10.30 | 910.40 | 7.02 | 909.65 | 7.41 | 911.79 | 7.75 | 911.93 | 8.65 | 911.44 | | |
| 6/20/2017 | 7.60 | 911.82 | 7.95 | 911.90 | 8.20 | 911.43 | 10.72 | 909.98 | 7.42 | 909.25 | 7.85 | 911.35 | 8.04 | 911.64 | 8.15 | 911.94 | | |
| 7/13/2017 | 8.40 | 911.02 | 8.75 | 911.10 | 9.10 | 910.53 | 10.50 | 910.20 | 8.10 | 908.57 | 8.32 | 910.88 | 8.89 | 910.79 | 9.10 | 910.99 | | |
| 11/8/2017 | 11.55 | 907.87 | 11.90 | 907.95 | 11.60 | 908.03 | 10.90 | 909.80 | 8.70 | 907.97 | 9.05 | 910.15 | 9.18 | 910.50 | 12.10 | 907.99 | | |
| 3/13/2018 | 11.50 | 907.92 | 11.85 | 908.00 | 12.16 | 907.47 | NM | NM | NM | NM | NM | NM | NM | NM | 12.22 | 907.87 | | |
| 6/6/2018 | 5.30 | 914.12 | 7.15 | 912.70 | 7.10 | 912.53 | NM | NM | NM | NM | NM | NM | NM | NM | 8.90 | 911.19 | | |
| 10/4/2018 | 5.78 | 913.64 | 6.60 | 913.25 | 6.66 | 912.97 | 8.85 | 911.85 | 5.41 | 911.26 | 4.48 | 914.72 | 5.14 | 914.54 | 6.87 | 913.22 | | |
| 1/15/2019 | NM | NM | NM | NM | NM | NM | 10.06 | 910.64 | 6.56 | 910.11 | NM | NM | NM | NM | NM | NM | | |
| 3/5/2019 | NM | NM | NM | NM | NM | NM | NM | NM | 8.08 | 908.59 | NM | NM | NM | NM | NM | NM | | |
| 4/8/2019 ^[1] | 4.17 | 915.25 | 4.69 | 915.16 | 4.58 | 915.05 | NM | NM | NM | NM | 3.68 | 915.52 | 3.98 | 915.70 | 4.85 | 915.24 | | |
| 10/14/2019 ^[2] | 3.64 | 915.78 | 4.56 | 915.29 | 4.33 | 915.30 | NM | NM | NM | NM | 3.01 | 916.19 | 3.33 | 916.35 | 4.65 | 915.44 | 4.38 | 917.67 |
| 4/20/2020 | 6.82 | 912.60 | 7.42 | 912.43 | 7.60 | 912.03 | 9.70 | 911.00 | 6.16 | 907.85 | 6.05 | 913.15 | 6.36 | 913.32 | 7.69 | 912.40 | 7.49 | 914.56 |
| 10/5/2020 | 10.52 | 908.90 | 11.13 | 908.72 | 11.17 | 908.46 | 12.90 | 907.80 | 9.11 | 907.56 | 10.06 | 909.14 | 10.36 | 909.32 | 11.35 | 908.74 | 11.88 | 910.17 |
| 4/6/2021 | 8.91 | 910.51 | 8.90 | 910.95 | 9.53 | 910.10 | 10.95 | 909.75 | 7.58 | 909.09 | 8.20 | 911.00 | 8.54 | 911.14 | 9.34 | 910.75 | 8.70 | 913.35 |
| 10/1/2021 | 11.27 | 908.15 | 11.74 | 908.11 | 11.84 | 907.79 | 13.54 | 907.16 | 9.66 | 907.01 | 10.69 | 908.51 | 11.02 | 908.66 | 12.00 | 908.09 | 12.39 | 909.66 |

Notes:

TOC = Top of PVC well casing

N.M. = not measured

AMSL = above mean sea level

^[1] MW-13, NC2-MW-3, and NC2-MW-8 were surrounded by ponding water during April 2019 sampling event and were not measured.

^[2] MW-13 was surrounded by ponding water during October 2019 sampling event and was not measured.

Table 3 - Groundwater Elevations

Omaha Public Power District - NC2 Ash Disposal Area

| Water Level Only Wells | | | | | | | | | |
|---------------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|-------------------------------|---------------------|--------|
| NC2MW-9 | | MW-11 | | MW-12 | | MW-14 | | | |
| TOC Elevation | | TOC Elevation | | TOC Elevation | | TOC Elevation | | | |
| 920.35 | | 918.44 | | 920.36 | | 920.99 | | | |
| Date | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | Measured Depth to Water (ft.) | GW Elevation (AMSL) | |
| 3/9/2016 | Well Installed 9/17/2019 | | 6.90 | 911.54 | 9.00 | 911.36 | Well installed 7/12/2018 | | |
| 6/7/2016 | | | 5.85 | 912.59 | 7.80 | 912.56 | | | |
| 10/3/2016 | | | 6.34 | 912.10 | 8.40 | 911.96 | | | |
| 11/18/2016 | | | 7.37 | 911.07 | 9.35 | 911.01 | | | |
| 2/14/2017 | | | 7.95 | 910.49 | 9.95 | 910.41 | | | |
| 4/25/2017 | | | 6.24 | 912.20 | 8.20 | 912.16 | | | |
| 6/20/2017 | | | 7.85 | 910.59 | 8.40 | 911.96 | | | |
| 7/13/2017 | | | 6.25 | 912.19 | 8.52 | 911.84 | | | |
| 11/8/2017 | | | 10.95 | 907.49 | 12.55 | 907.81 | | | |
| 3/13/2018 | | | 9.85 | 908.59 | NM | NM | | | |
| 6/6/2018 | | | 6.80 | 911.64 | NM | NM | | | |
| 10/4/2018 | | | 4.45 | 913.99 | 6.55 | 913.81 | | 7.35 | 913.64 |
| 1/15/2019 | | | NM | NM | NM | NM | | 8.15 | 912.84 |
| 3/5/2019 | | | NM | NM | NM | NM | | 8.75 | 912.24 |
| 4/8/2019 ^[1] | | | 3.04 | 915.40 | 4.89 | 915.47 | | 5.73 | 915.26 |
| 10/14/2019 ^[2] | 4.19 | 916.16 | 2.90 | 915.54 | 4.77 | 915.59 | 5.75 | 915.24 | |
| 4/20/2020 | 6.76 | 913.59 | 5.48 | 912.96 | 7.41 | 912.95 | 7.59 | 913.40 | |
| 10/5/2020 | 10.81 | 909.54 | 9.37 | 909.07 | 11.29 | 909.07 | 11.47 | 909.52 | |
| 4/6/2021 | 8.56 | 911.79 | 7.01 | 911.43 | 8.97 | 911.39 | 8.51 | 912.48 | |
| 10/1/2021 | 11.42 | 908.93 | 9.88 | 908.56 | 11.86 | 908.50 | 11.98 | 909.01 | |

Notes:

TOC =Top of PVC well casing

N.M. = not measured

AMSL = above mean sea level

^[1] MW-13, NC2-MW-3, and NC2-MW-8 were surrounded by ponding water during April 2019 sampling event and were not measured.

^[2] MW-13 was surrounded by ponding water during October 2019 sampling event and was not measured.

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Table 4 - Appendix III (Detection Monitoring) Constituents in Groundwater
 Omaha Public Power District - NC2 Ash Disposal Area

| | | Appendix III (Detection Monitoring) Constituents | | | | | | |
|----------------|------------|--|----------|-----------|--------|----------------------------|-------|-------|
| Constituent | Boron | Calcium | Chloride | Fluoride* | pH | Sulfate | TDS | |
| Reporting Unit | mg/L | mg/L | mg/L | mg/L | S.U. | mg/L | mg/L | |
| NC2MW-4 | 3/9/2016 | <0.2 | 131 | <5 | <0.5 | 6.94 | 46.2 | 546 |
| | 3/14/2016 | <0.2 | 126 | 6.27 | 0.213 | 6.84 | 48.3 | 536 |
| | 6/3/2016 | <0.2 | 130 | <5 | <0.5 | 6.90 | 46.8 | 668 |
| | 6/7/2016 | <0.2 | 129 | <5 | <0.5 | 6.95 | 45.6 | 660 |
| | 8/31/2016 | <0.2 | 91.1 | 7.13 | 0.646 | 7.20 | 29.7 | 574 |
| | 11/17/2016 | <0.2 | 130 | <5 | 1.28 | 7.19 | 34.0 | 548 |
| | 11/18/2016 | <0.2 | 132 | <5 | 1.1 | 7.30 | 33.6 | 574 |
| | 2/14/2017 | <0.2 | 148 | <5 | <0.5 | 7.72 | 39.3 | 544 |
| | 2/15/2017 | <0.2 | 142 | 10.8 | 2.43 | 7.63 | 39.7 | 526 |
| | 4/24/2017 | <0.2 | 126 | <5 | 1.08 | 7.08 | 38.6 | 574 |
| | 4/25/2017 | <0.2 | 122 | <5 | <0.5 | 7.28 | 38.3 | 594 |
| | 6/15/2017 | <0.2 | 122 | <5 | <0.5 | 7.09 | 32.2 | 552 |
| | 6/20/2017 | <0.2 | 119 | <5 | <0.5 | 7.13 | 33.1 | 558 |
| | 7/12/2017 | <0.2 | 104 | <5 | <0.5 | 7.88 | 32.7 | 580 |
| | 7/13/2017 | <0.2 | 112 | <5 | <0.5 | 7.98 | 32.7 | 664 |
| | 11/8/2017 | <0.2 | 133 | <5 | <0.5 | 7.15 | 43.50 | 556.0 |
| | 11/9/2017 | <0.2 | 134 | <5 | <0.5 | 7.18 | 42.8 | 568 |
| | 3/12/2018 | <0.2 | 141 | <5 | <0.5 | 6.32 / 7.28 ⁽¹⁾ | 42.6 | 562 |
| | 6/6/2018 | <0.2 | 140 | <5 | <0.5 | 7.15 | 44.1 | 542 |
| | 10/3/2018 | <0.2 | 117 | <5 | <0.5 | 6.81 | 42.4 | 520 |
| 4/8/2019 | <0.2 | 137 | <5 | <0.5 | 6.71 | 40.9 | 560 | |
| 10/15/2019 | <0.2 | 142 | 5.38 | <0.5 | 6.57 | 35.0 | 528 | |
| 1/30/2020 | 0.115J | 142 | <5 | <0.5 | 6.88 | 44.5 | 544 | |
| 4/20/2020 | <0.1 | 127 | 5.05 | 0.421J | 6.54 | 51.9 | 526 | |
| 4/27/2020 | <0.0730 | 134 | 5.37 | 0.315J | 6.61 | 52.6 | 550 | |
| 7/14/2020 | 0.113 | 129 | 4.38J | <0.23 | 6.53 | 59.9 | 454 | |
| 10/5/2020 | 0.0996J | 154 | 5.60 | <0.23 | 6.81 | 46.1 | 608 | |
| 4/12/2021 | 0.0838J | 103 | 4.93J | 0.311J | 6.27 | 61.6 | 448 | |
| 10/4/2021 | 0.119 | 128 | 4.86J | <0.275 | 6.93 | 62.6 | 486 | |
| NC2MW-5 | 3/14/2016 | 3.73 | 210 | 51 | <0.5 | 7.12 | 611.0 | 1310 |
| | 6/3/2016 | 3.98 | 217 | 36.6 | <0.5 | 7.01 | 590.0 | 1390 |
| | 8/31/2016 | 4.08 | 159 | 21.5 | <0.5 | 7.11 | 455.0 | 1280 |
| | 11/17/2016 | 4.27 | 228 | 21.6 | 1.89 | 7.54 | 414.0 | 1170 |
| | 2/15/2017 | 2.94 | 217 | 13.3 | 0.59 | 7.30 | 531.0 | 1210 |
| | 4/24/2017 | 2.85 | 183 | 12.5 | 1.25 | 7.55 | 331.0 | 1060 |
| | 6/15/2017 | 3.82 | 190 | 10.6 | <0.5 | 7.17 | 243.0 | 1090 |
| | 7/12/2017 | 4.63 | 191 | 7.93 | <0.5 | 7.45 | 369.0 | 1190 |
| | 11/9/2017 | 2.91 | 168 | 13.2 | <0.5 | 7.20 | 404.0 | 1260 |
| | 3/12/2018 | 2 | 160 | 34.2 | <0.5 | 6.90 / 7.56 ⁽¹⁾ | 318.0 | 826 |
| | 6/6/2018 | 3.81 | 198 | 14 | <0.5 | 7.02 | 353.0 | 1060 |
| | 10/3/2018 | 4.01 | 227 | 8.65 | <0.5 | 7.00 | 503 | 1230 |
| | 4/8/2019 | 3.72 | 189 | 5.42 | 0.634 | 7.15 | 382 | 1030 |
| | 10/15/2019 | 3.66 | 195 | 9.2 | <0.5 | 7.00 | 322 | 924 |
| | 1/30/2020 | 2.65 | 172 | 8.61 | <0.5 | 7.23 | 297 | 692 |
| | 4/27/2020 | 3.31 | 174 | 6.39 | 0.323J | 6.84 | 381 | 946 |
| | 7/14/2020 | 4.26 | 216 | 9.02 | <0.23 | 6.83 | 324 | 1020 |
| 10/5/2020 | 4.27 | 221 | 10.6 | <0.23 | 6.96 | 339 | 1040 | |
| 4/12/2021 | 2.24 | 114 | 9.45 | 0.356J | 6.60 | 203 | 606 | |
| 10/4/2021 | 2.86 | 168 | 9.28 | <0.275 | 7.19 | 282 | 826 | |
| MW-13 | 3/9/2016 | <0.2 | 96.3 | 11.8 | <0.5 | 7.20 | 45 | 408 |
| | 3/14/2016 | <0.2 | 90.6 | 11.4 | <0.5 | 6.97 | 47.7 | 438 |
| | 6/3/2016 | <0.2 | 87.9 | 12 | <0.5 | 7.11 | 37.6 | 360 |
| | 6/7/2016 | <0.2 | 87.1 | 11.7 | <0.5 | 7.14 | 39.3 | 484 |
| | 8/31/2016 | <0.2 | 66.6 | 11.1 | <0.5 | 7.71 | 31.3 | 414 |
| | 11/17/2016 | <0.2 | 84.2 | 9.33 | 0.803 | 7.79 | 34.7 | 430 |
| | 11/18/2016 | <0.2 | 86.2 | 9.65 | 0.647 | 7.14 | 34.4 | 410 |
| | 2/14/2017 | <0.2 | 106 | 20.7 | 3.64 | 7.29 | 39.9 | 472 |
| | 2/15/2017 | <0.2 | 94.9 | 11.2 | <0.5 | 7.21 | 40.9 | 448 |
| | 4/24/2017 | <0.2 | 94.1 | 12 | 0.79 | 7.27 | 39.5 | 520 |
| | 4/25/2017 | <0.2 | 93.5 | 12.1 | 0.80 | 7.36 | 38.9 | 430 |
| 6/15/2017 | <0.2 | 91.1 | 12.4 | <0.5 | 7.28 | 34.2 | 454 | |
| 6/20/2017 | <0.2 | 88.6 | 12.7 | 0.51 | 7.17 | 35.6 | 456 | |

Table 4 - Appendix III (Detection Monitoring) Constituents in Groundwater
 Omaha Public Power District - NC2 Ash Disposal Area

| | | Appendix III (Detection Monitoring) Constituents | | | | | | |
|----------------|------------|--|---------------------|---------------------|---------------------|----------------------------|---------------------|---------------------|
| Constituent | Boron | Calcium | Chloride | Fluoride* | pH | Sulfate | TDS | |
| Reporting Unit | mg/L | mg/L | mg/L | mg/L | S.U. | mg/L | mg/L | |
| MW-13 | 7/12/2017 | <0.2 | 95.8 | 16.8 | <0.5 | 8.10 | 42.0 | 676 |
| | 7/13/2017 | <0.2 | 94.1 | 12.5 | <0.5 | 8.09 | 39.8 | 592 |
| | 11/8/2017 | <0.2 | 90.2 | 12.7 | 0.608 | 7.00 | 37.4 | 498 |
| | 11/9/2017 | <0.2 | 95.2 | 12.4 | 0.55 | 7.12 | 36.4 | 488 |
| | 3/12/2018 | <0.2 | 99.8 | 12.9 | <0.5 | 6.45 / 7.51 ^[1] | 37.0 | 412 |
| | 6/6/2018 | 0.203 | 102 | 12.5 | <0.5 | 6.84 | 71.0 | 504 |
| | 10/3/2018 | <0.2 | 87.3 | 14.1 | 0.738 | 6.88 | 33.6 | 410 |
| | 4/8/2019 | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] |
| | 10/15/2019 | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] |
| | 1/30/2020 | 0.121J | 93.7 | 17.2 | <0.5 | 6.87 | 44.5 | 464 |
| | 4/20/2020 | 0.133J | 120 | 17.3 | 0.399J | 6.96 | 371 | 742 |
| | 4/27/2020 | 0.134 | 102 | 17.2 | 0.383J | 6.93 | 271 | 622 |
| | 7/14/2020 | 0.134 | 103 | 7.22 | 0.267J | 6.84 | 299 | 566 |
| | 10/5/2020 | 0.0955J | 118 | 12.8 | <0.23 | 6.9 | 46.2 | 508 |
| 4/12/2021 | 0.0653J | 66.9 | 5.5 | 0.441J | 6.58 | 101 | 350 | |
| 10/4/2021 | 0.105 | 126 | 11.5 | <0.275 | 6.99 | 47.4 | 510 | |
| NC2MW-2 | 3/14/2016 | <0.2 | 277 | <5 | 0.371 | 6.80 | 388.0 | 1120 |
| | 6/3/2016 | 0.301 | 196 | <5 | <0.5 | 6.79 | 336.0 | 972 |
| | 8/31/2016 | 0.511 | 130 | <5 | <0.5 | 7.04 | 151.0 | 696 |
| | 11/17/2016 | 0.302 | 236 | <5 | <0.5 | 7.23 | 298.0 | 1030 |
| | 2/15/2017 | 0.219 | 269 | 13.2 | 2.51 | 7.28 | 290.0 | 1070 |
| | 4/24/2017 | 0.264 | 158 | 5.4 | 1.38 | 7.21 | 135.0 | 652 |
| | 6/15/2017 | 0.304 | 165 | <5 | <0.5 | 7.04 | 139.0 | 780 |
| | 7/12/2017 | 0.325 | 127 | <5 | <0.5 | 7.03 | 73.0 | 592 |
| | 11/9/2017 | 0.25 | 131 | <5 | <0.5 | 7.19 | 130.0 | 662 |
| | 3/12/2018 | <0.2 | 176 | 5.08 | <0.5 | 6.26 / 6.96 ^[1] | 258.0 | 656 |
| | 6/6/2018 | 0.353 | 220 | 15.7 | <0.5 | 6.45 / 6.71 ^[2] | 281.0 | 1180 |
| | 10/3/2018 | 0.438 | 167 | <5 | <0.5 | 6.86 | 164 | 668 |
| | 4/8/2019 | 0.270 | 227 | 11.8 | <0.5 | 6.68 | 290 | 978 |
| | 9/23/2019 | 0.879 | 151 | 9.73 | 0.546 | N.S. | 238 | 654 |
| | 10/15/2019 | 0.513 | 241 | 10.7 | <0.5 | 6.54 | 314 | 972 |
| | 1/31/2020 | 0.322 | 258 | 9.78 | <0.5 | 6.39 | 312 | 1090 |
| | 4/27/2020 | 0.265 | 252 | 9.64 | 0.256J | 6.49 | 350 | 1140 |
| 7/14/2020 | 0.291 | 261 | 7.93 | <0.23 | 6.67 | 319 | 1070 | |
| 10/5/2020 | 0.289 | 268 | 7.67 | <0.23 | 6.70 | 324 | 1050 | |
| 4/12/2021 | 0.371 | 235 | 24.7 | 0.392J | 6.34 | 458 | 1040 | |
| 10/4/2021 | 0.668 | 183 | 11.6 | <0.275 | 6.91 | 266 | 726 | |
| NC2MW-3 | 3/14/2016 | <0.2 | 85.3 | <5 | 0.168 | 7.05 | 21.0 | 334 |
| | 6/3/2016 | <0.2 | 121 | <5 | <0.5 | 7.14 | 19.6 | 500 |
| | 8/31/2016 | <0.2 | 51.3 | <5 | <0.5 | 7.18 | 7.4 | 296 |
| | 11/17/2016 | <0.2 | 91 | <5 | 1.28 | 7.32 | 5.6 | 354 |
| | 2/15/2017 | <0.2 | 74.2 | 15.6 | 5.11 | 7.09 | 49.6 | 378 |
| | 4/24/2017 | <0.2 | 63.3 | 9 | 2.87 | 7.68 | 10.5 | 324 |
| | 6/15/2017 | <0.2 | 89.4 | <5 | <0.5 | 7.32 | <5 | 386 |
| | 7/12/2017 | <0.2 | 92.8 | <5 | <0.5 | 7.99 | 8.9 | 528 |
| | 11/9/2017 | <0.2 | 148 | <5 | <0.5 | 7.33 | 185.0 | 604 |
| | 3/12/2018 | <0.2 | 167 | 11.7 | 0.723 | 6.61 / 7.41 ^[1] | 371.0 | 792 |
| | 6/6/2018 | 0.654 | 198 | 22.9 | <0.5 | 4.40 / 6.91 ^[2] | 491.0 | 978 |
| | 10/3/2018 | <0.2 | 127 | 8.74 | 0.523 | 6.94 | 31.2 | 478 |
| | 4/8/2019 | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] |
| | 9/23/2019 | <0.2 | 132 | 7.53 | 0.527 | N.S. | 24 | 494 |
| | 10/15/2019 | <0.2 | 138 | 7.92 | <0.5 | 6.81 | 20.3 | 472 |
| | 1/31/2020 | <0.1 | 156 | 6.90 | <0.5 | 6.61 | 89.9 | 600 |
| | 4/27/2020 | 0.0765J | 181 | 8.70 | 0.300J | 6.62 | 183 | 774 |
| 7/14/2020 | 0.401 | 204 | 3.86J | <0.23 | 6.8 | 407 | 842 | |
| 10/5/2020 | 0.213 | 159 | 7.71 | 0.535 | 6.76 | 156 | 644 | |
| 4/12/2021 | 0.271 | 141 | 22.7 | 1.37 | 6.53 | 379 | 1080 | |
| 10/4/2021 | 0.306 | 139 | 12.6 | 0.492J | 7.02 | 292 | 860 | |
| NC2MW-6 | 3/14/2016 | 3.83 | 134 | 16.5 | <0.5 | 7.21 | 314.0 | 728 |
| | 6/3/2016 | 4.14 | 93 | 6.16 | <0.5 | 7.27 | 171.0 | 608 |
| | 8/31/2016 | 4.79 | 90.4 | <5.0 | <0.5 | 7.43 | 149.0 | 592 |
| | 11/17/2016 | 5.11 | 125 | 15 | 6.53 | 7.63 | 165.0 | 588 |

Table 4 - Appendix III (Detection Monitoring) Constituents in Groundwater
Omaha Public Power District - NC2 Ash Disposal Area

| | | Appendix III (Detection Monitoring) Constituents | | | | | | |
|------------------------|------------|--|---------------------|---------------------|---------------------|----------------------------|---------------------|---------------------|
| Constituent | | Boron | Calcium | Chloride | Fluoride* | pH | Sulfate | TDS |
| Reporting Unit | | mg/L | mg/L | mg/L | mg/L | S.U. | mg/L | mg/L |
| NC2MW-6 | 2/15/2017 | 4.11 | 132 | <5.0 | <0.5 | 7.77 | 136.0 | 602 |
| | 4/24/2017 | 3.08 | 96.5 | 10.2 | 1.71 | 7.68 | 99.1 | 530 |
| | 6/15/2017 | 3.58 | 119 | 6.26 | <0.5 | 7.35 | 196.0 | 636 |
| | 7/12/2017 | 3.92 | 102 | <5.0 | <0.5 | 7.25 | 155.0 | 596 |
| | 11/9/2017 | 4.39 | 128 | 6.75 | <0.5 | 7.24 | 195.0 | 872 |
| | 3/12/2018 | 3.06 | 145 | 7.14 | <0.5 | 6.64 / 7.38 ^[1] | 194.0 | 644 |
| | 6/6/2018 | 3.58 | 133 | 5.53 | <0.5 | 7.19 | 174.0 | 694 |
| | 10/3/2018 | 4.18 | 129 | <5.0 | <0.5 | 6.97 | 200 | 660 |
| | 4/8/2019 | 2.46 | 94.3 | <5 | <0.5 | 7.18 | 141 | 520 |
| | 10/15/2019 | 2.79 | 154 | 9.08 | <0.5 | 6.82 | 151 | 656 |
| | 1/31/2020 | 2.86 | 149 | 8.67 | <0.5 | 6.94 | 171 | 884 |
| | 4/27/2020 | 2.59 | 125 | 8.29 | 0.335J | 6.80 | 149 | 586 |
| | 7/14/2020 | 2.60 | 122 | 7.83 | 0.232J | 6.93 | 135 | 526 |
| | 10/5/2020 | 3.03 | 126 | 8.57 | 0.329J | 6.89 | 147 | 404 |
| | 4/12/2021 | 1.94 | 90.4 | 3.57J | <0.275 | 6.65 | 101 | 406 |
| 10/4/2021 | 2.48 | 123 | 6.30 | <0.275 | 7.20 | 132 | 524 | |
| NC2MW-7 | 3/14/2016 | <0.2 | 134 | 6.55 | 0.312 | 6.92 | 6.9 | 496 |
| | 6/3/2016 | <0.2 | 128 | 7.63 | <0.5 | 7.28 | <5 | 690 |
| | 8/31/2016 | <0.2 | 100 | 6.68 | <0.5 | 7.55 | <5 | 534 |
| | 11/17/2016 | <0.2 | 138 | 5.73 | 0.544 | 7.77 | <5 | 510 |
| | 2/15/2017 | <0.2 | 143 | 9.96 | <0.5 | 7.55 | <5 | 552 |
| | 4/24/2017 | <0.2 | 139 | 11.3 | 1.35 | 7.83 | <5 | 576 |
| | 6/15/2017 | <0.2 | 128 | 9.81 | <0.5 | 7.40 | <5 | 688 |
| | 7/12/2017 | <0.2 | 125 | 8.07 | <0.5 | 7.25 | <5 | 636 |
| | 11/9/2017 | 0.201 | 131 | 7.79 | <0.5 | 7.40 | 17.8 | 580 |
| | 3/12/2018 | <0.2 | 144 | 9.04 | <0.5 | 6.72 / 7.42 ^[1] | 25.7 | 496 |
| | 6/6/2018 | <0.2 | 119 | 9.41 | <0.5 | 7.21 | 12.0 | 528 |
| | 10/3/2018 | <0.2 | 122 | 9.19 | 0.519 | 7.31 | 11.6 | 494 |
| | 4/8/2019 | 0.214 | 132 | 8.64 | <0.5 | 7.33 | 44.0 | 820 |
| | 9/23/2019 | <0.2 | 129 | 8.33 | <0.5 | N.S. | 19.1 | 526 |
| | 10/15/2019 | <0.2 | 139 | 8.41 | <0.5 | 7.02 | 32.1 | 520 |
| | 2/3/2020 | 0.133J | 123 | 8.51 | 0.357J | 6.76 | 30.9 | 534 |
| | 4/27/2020 | 0.172 | 126 | 9.12 | 0.429J | 6.89 | 9.26 | 518 |
| 7/14/2020 | 0.161 | 121 | 9.83 | <0.23 | 6.81 | <3.55 | 340 | |
| 10/5/2020 | 0.220 | 122 | 9.12 | 0.322J | 7.21 | <3.55 | 396 | |
| 4/12/2021 | 0.227 | 124 | 8.69 | 0.415J | 6.85 | <2.45 | 494 | |
| 10/4/2021 | 0.190 | 118 | 9.27 | <0.275 | 7.38 | <2.45 | 430 | |
| NC2MW-8 ^[3] | 10/3/2018 | <0.2 | 142 | 7.05 | 0.566 | 7.14 | 10.7 | 526 |
| | 1/15/2019 | <0.2 | 102 | 8.10 | <0.5 | 6.73 | 11.6 | 504 |
| | 3/5/2019 | <0.2 | 153 | 7.84 | <0.5 | 7.02 | 11.6 | 512 |
| | 4/8/2019 | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] | N.S. ^[4] |
| | 9/23/2019 | <0.2 | 141 | 8.96 | 0.582 | 6.84 | <5 | 534 |
| | 10/16/2019 | <0.2 | 140 | 9.42 | <0.5 | 6.89 | <5 | 476 |
| | 1/31/2020 | 0.747 | 140 | 9.19 | <0.5 | 6.71 | 106 | 600 |
| | 4/27/2020 | 0.0777J | 127 | 10.8 | 0.504 | 6.81 | 6.46 | 500 |
| | 7/14/2020 | 0.0838J | 127 | 10.3 | <0.23 | 7.04 | 6.24 | 448 |
| | 10/5/2020 | 0.115 | 116 | 10.0 | 0.331J | 7.02 | 5.50 | 512 |
| 4/12/2021 | 0.0894J | 121 | 11.8 | 0.393J | 6.58 | 7.34 | 470 | |
| 10/4/2021 | 0.107 | 130 | 10.3 | <0.275 | 7.26 | 7.47 | 436 | |

N.S. indicates analyte not sampled due to flooding of area around monitoring well.

"J" data qualifier indicates that value is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value and was not used as a statistically significant detection.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

< for the period of March 2016 through October 2019, the symbol indicates analyte not detected above the Reporting Limit, which is the value shown following the "<" symbol. Starting in January 2020, the symbol indicates analyte not detected above the Method Detection Limit, which is the value shown following the "<"

^[1] The first pH value obtained in the field on March 13, 2018 was found to be inaccurate due to equipment errors. The second pH value was a verification sample obtained in the field on March 19, 2018.

^[2] Verification sampling for pH was completed on August 7, 2018 and determined the June 5, 2018 reading was inaccurate.

^[3] NC2MW-8 was installed July 9, 2018 and was added to the Groundwater Monitoring System Certification in June 2019. The 9/23/2019 sampling event was part of an Alternative Source Demonstration for the Title 132 Groundwater Assessment Report.

^[4] MW-13, NC2MW-3, and NC2MW-8 were surrounded by ponding water during April 2019 sampling event and were not measured. Additionally, MW-13 was surrounded by ponding water and not sampled during the October 2019 sampling event.

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Table 5 - Appendix IV (Assessment Monitoring) Constituents in Groundwater
Omaha Public Power District - NC2 Ash Disposal Area

| Constituent Reporting Unit | | Appendix IV (Assessment Monitoring) Constituents | | | | | | | | | | | | | | |
|-------------------------------|------------|--|----------|-----------|------------|-----------|-----------|------------|--------------------------------------|-----------|-----------|----------|----------|------------|-----------|----------|
| | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium (Ra 226 + Ra 228) | Fluoride* | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pCi/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| NC2MW-4 | 3/9/2016 | <0.001 | <0.002 | 0.281 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.54 | <0.5 | 0.00199 | <0.05 | <0.0002 | 0.00272 | <0.005 | <0.001 |
| | 3/14/2016 | <0.001 | <0.002 | 0.276 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.563 | 0.213 | 0.00065 | <0.05 | <0.0002 | 0.00507 | <0.005 | <0.001 |
| | 6/3/2016 | <0.001 | <0.002 | 0.288 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.739 | <0.5 | 0.000737 | <0.05 | <0.0002 | 0.00239 | <0.005 | <0.001 |
| | 6/7/2016 | <0.001 | <0.002 | 0.293 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.21 | <0.5 | 0.000951 | <0.05 | <0.0002 | 0.00283 | <0.005 | <0.001 |
| | 8/31/2016 | <0.001 | <0.002 | 0.296 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.04 | 0.646 | 0.00162 | <0.05 | <0.0002 | 0.00252 | <0.005 | <0.001 |
| | 11/17/2016 | <0.001 | <0.002 | 0.284 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.03 | 1.28 | 0.000536 | <0.05 | <0.0002 | 0.00597 | <0.005 | <0.001 |
| | 11/18/2016 | <0.001 | <0.002 | 0.283 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.984 | 1.1 | 0.00127 | <0.05 | <0.0002 | 0.00288 | <0.005 | <0.001 |
| | 2/14/2017 | <0.001 | <0.002 | 0.3 | <0.001 | <0.0005 | <0.005 | 0.00129 | 0.894 | <0.5 | 0.0032 | <0.05 | <0.0002 | 0.0028 | <0.005 | <0.001 |
| | 2/15/2017 | <0.001 | <0.002 | 0.272 | <0.001 | <0.0005 | <0.005 | 0.000584 | 0.647 | 2.43 | 0.00196 | <0.05 | <0.0002 | 0.00393 | <0.005 | <0.001 |
| | 4/24/2017 | <0.001 | <0.002 | 0.287 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.08 | 1.08 | 0.000802 | <0.05 | <0.0002 | 0.00224 | <0.005 | <0.001 |
| | 4/25/2017 | <0.001 | <0.002 | 0.3 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.23 | <0.5 | 0.000714 | <0.05 | <0.0002 | 0.00323 | <0.005 | <0.001 |
| | 6/15/2017 | <0.001 | <0.002 | 0.249 | <0.001 | <0.0005 | <0.005 | 0.000521 | 1.29 | <0.5 | 0.00165 | <0.05 | <0.0002 | 0.00422 | <0.005 | <0.001 |
| | 6/20/2017 | <0.001 | <0.002 | 0.258 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.16 | <0.5 | 0.000754 | <0.05 | <0.0002 | 0.00551 | 0.00593 | <0.001 |
| | 7/12/2017 | <0.001 | <0.002 | 0.232 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.42 | <0.5 | 0.000549 | <0.05 | <0.0002 | 0.00233 | <0.005 | <0.001 |
| | 7/13/2017 | <0.001 | <0.002 | 0.236 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.76 | <0.5 | 0.000787 | <0.05 | <0.0002 | 0.00326 | <0.005 | <0.001 |
| | 3/12/2018 | <0.001 | <0.002 | 0.297 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.71 | <0.5 | 0.00192 | 0.0318 | <0.0002 | <0.002 | 0.0112 | <0.001 |
| | 6/6/2018 | <0.001 | <0.002 | 0.329 | <0.001 | <0.0005 | <0.005 | 0.000502 | 1.9 | <0.5 | 0.00154 | 0.0292 | <0.0002 | 0.0049 | 0.00754 | <0.001 |
| | 10/3/2018 | N.S. | <0.002 | 0.321 | N.S. | N.S. | N.S. | <0.0005 | 1.13 | <0.5 | 0.000565 | 0.0332 | N.S. | 0.00707 | <0.005 | N.S. |
| | 4/8/2019 | <0.001 | <0.002 | 0.351 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.743 | <0.5 | <0.0005 | 0.0351 | <0.0002 | 0.00283 | <0.005 | <0.001 |
| | 10/15/2019 | <0.001 | <0.002 | 0.390 | <0.001 | 0.000138 | <0.005 | <0.0005 | 1.22 | <0.5 | <0.0005 | 0.0343 | <0.0002 | 0.00412 | <0.005 | <0.001 |
| 1/30/2020 | <0.00058 | 0.00109J | 0.340 | <0.00027 | 0.0000720J | <0.0011 | 0.000531 | 0.610 | <0.5 | 0.00167 | 0.0347 | <0.0001 | 0.00177J | <0.001 | <0.00026 | |
| 4/20/2020 | 0.000609J | <0.000880 | 0.303 | <0.00027 | <0.000039 | <0.0011 | 0.000167J | 0.684 | 0.421J | 0.000624 | 0.0305 | <0.0001 | 0.00191J | <0.001 | <0.00026 | |
| 4/27/2020 | <0.00058 | <0.000880 | 0.335 | <0.00027 | 0.0000470J | <0.0011 | 0.000121J | 0.743 | 0.315J | 0.000398J | 0.0284 | <0.0001 | 0.00192J | <0.001 | <0.00026 | |
| 7/14/2020 | <0.00051 | 0.00104J | 0.311 | <0.00027 | 0.000119 | <0.0011 | 0.000591 | 2.19 | <0.23 | 0.00181 | 0.0311 | <0.0001 | 0.00173J | 0.00129J | <0.00026 | |
| 10/5/2020 | <0.00051 | 0.00348 | 0.447 | <0.00027 | 0.0000970J | 0.00164J | 0.00122 | -0.927U | <0.23 | 0.00243 | 0.0349 | <0.0001 | 0.00272 | <0.001 | <0.00026 | |
| 4/12/2021 | <0.00110 | 0.00113J | 0.268 | <0.00027 | 0.0000580J | <0.00110 | 0.000256J | 0.984 | 0.311J | 0.000833 | 0.023 | <0.00015 | 0.0112 | 0.0111 | <0.00026 | |
| 10/4/2021 | <0.00110 | 0.00275 | 0.420 | 0.000571J | 0.000469 | 0.00110J | 0.00203 | 8.390 | <0.275 | 0.00610 | 0.0324 | <0.00015 | 0.00154J | 0.00391J | 0.000527J | |
| NC2MW-5 | 3/14/2016 | <0.001 | <0.002 | 0.0295 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.318 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00587 | <0.005 | <0.001 |
| | 6/3/2016 | <0.001 | 0.00291 | 0.0384 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.354 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0237 | <0.005 | <0.001 |
| | 8/31/2016 | <0.001 | <0.002 | 0.0414 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.365 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0243 | <0.005 | <0.001 |
| | 11/17/2016 | <0.001 | 0.00218 | 0.0558 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.476 | 1.89 | <0.0005 | <0.05 | <0.0002 | 0.0204 | <0.005 | <0.001 |
| | 2/15/2017 | <0.001 | <0.002 | 0.0335 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.106 | 0.59 | 0.00088 | <0.05 | <0.0002 | 0.0168 | <0.005 | <0.001 |
| | 4/24/2017 | <0.001 | 0.00236 | 0.0366 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.136 | 1.25 | 0.000734 | <0.05 | <0.0002 | 0.00818 | <0.005 | <0.001 |
| | 6/15/2017 | <0.001 | 0.00207 | 0.0416 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.265 | <0.5 | 0.000601 | <0.05 | 0.0002 | 0.0125 | <0.005 | <0.001 |
| | 7/12/2017 | <0.001 | 0.0022 | 0.0484 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.507 | <0.5 | 0.000584 | <0.05 | <0.0002 | 0.012 | <0.005 | <0.001 |
| | 3/12/2018 | <0.001 | 0.0026 | 0.0395 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.236 U | <0.5 | 0.000562 | <0.01 | <0.0002 | 0.0145 | 0.0238 | <0.001 |
| | 6/6/2018 | <0.001 | 0.00325 | 0.0713 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.187 | <0.5 | 0.00159 | 0.0129 | <0.0002 | 0.0205 | 0.0144 | <0.001 |
| | 10/3/2018 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | <0.5 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 4/8/2019 | N.S. | <0.002 | 0.0341 | N.S. | <0.0005 | <0.005 | N.S. | N.S. | 0.634 | <0.0005 | N.S. | <0.0002 | N.S. | <0.005 | N.S. |
| | 10/15/2019 | <0.001 | 0.00247 | 0.0340 | <0.001 | <0.0001 | <0.005 | <0.0005 | -0.0619 U | <0.5 | <0.0005 | 0.0152 | <0.0002 | 0.0339 | <0.005 | <0.001 |
| | 1/30/2020 | 0.00110 | 0.00187J | 0.0299 | <0.00027 | <0.000039 | <0.0011 | 0.0000910J | 0.0845U | <0.5 | 0.000388J | 0.00889J | <0.0001 | 0.0120 | 0.00283J | <0.00026 |
| | 4/27/2020 | <0.00058 | 0.00162J | 0.0357 | <0.00027 | <0.000039 | <0.0011 | 0.0000920J | -0.0625 | 0.323J | <0.00027 | 0.0102 | <0.0001 | 0.0147 | 0.00189J | <0.00026 |
| 7/14/2020 | <0.00051 | 0.00279 | 0.0536 | <0.00027 | <0.000049 | <0.0011 | 0.000123J | 0.0869 | <0.23 | 0.000871 | 0.0194 | <0.0001 | 0.0114 | 0.00551 | <0.00026 | |
| 10/5/2020 | <0.00051 | 0.00243 | 0.0588 | <0.00027 | 0.0000990J | <0.0011 | 0.000236J | 0.255U | <0.23 | 0.000379J | 0.0200 | <0.0001 | 0.0212 | <0.001 | <0.00026 | |

Table 5 - Appendix IV (Assessment Monitoring) Constituents in Groundwater
Omaha Public Power District - NC2 Ash Disposal Area

| Constituent Reporting Unit | | Appendix IV (Assessment Monitoring) Constituents | | | | | | | | | | | | | | | |
|-------------------------------|------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium (Ra 226 + Ra 228) | Fluoride* | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium | |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pCi/L | mg/L | |
| NC2MW-5 | 4/12/2021 | <0.00110 | 0.00170J | 0.0245 | <0.00027 | <0.000051 | <0.0011 | 0.000105J | -0.0122U | 0.356J | <0.00210 | 0.00783J | <0.00015 | 0.0252 | 0.00867 | <0.00026 | |
| | 10/4/2021 | <0.00110 | 0.00245 | 0.0519 | <0.00027 | 0.0000570J | <0.0011 | 0.000226J | 1.03 | <0.275 | 0.000630 | 0.0120 | <0.00015 | 0.0236 | 0.00162J | <0.00026 | |
| MW-13 | 3/9/2016 | <0.001 | 0.00492 | 0.302 | <0.001 | <0.0005 | <0.005 | 0.000817 | 1.14 | <0.5 | <0.0005 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 3/14/2016 | <0.001 | 0.00545 | 0.288 | <0.001 | <0.0005 | <0.005 | 0.00105 | 0.741 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0167 | <0.005 | <0.001 | |
| | 6/3/2016 | <0.001 | 0.00607 | 0.324 | <0.001 | <0.0005 | <0.005 | 0.00122 | 1.01 | <0.5 | 0.000704 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 6/7/2016 | <0.001 | 0.00591 | 0.317 | <0.001 | <0.0005 | <0.005 | 0.00118 | 0.69 | <0.5 | 0.000623 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 8/31/2016 | <0.001 | 0.00623 | 0.342 | <0.001 | <0.0005 | <0.005 | 0.00107 | 1.09 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00216 | <0.005 | <0.001 | |
| | 11/17/2016 | <0.001 | 0.00515 | 0.322 | <0.001 | <0.0005 | <0.005 | 0.000873 | 1.37 | 0.803 | 0.00089 | <0.05 | <0.0002 | 0.00258 | <0.005 | <0.001 | |
| | 11/18/2020 | <0.001 | 0.0058 | 0.333 | <0.001 | <0.0005 | <0.005 | 0.000916 | 0.745 | 0.647 | <0.0005 | <0.05 | <0.0002 | 0.00235 | <0.005 | <0.001 | |
| | 2/14/2017 | <0.001 | 0.00304 | 0.349 | <0.001 | <0.0005 | <0.005 | 0.000925 | 0.532 | 3.64 | <0.0005 | <0.05 | <0.0002 | 0.00228 | <0.005 | <0.001 | |
| | 2/15/2017 | <0.001 | 0.00289 | 0.321 | <0.001 | <0.0005 | <0.005 | 0.000883 | 0.407 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00221 | <0.005 | <0.001 | |
| | 4/24/2017 | <0.001 | 0.0024 | 0.336 | <0.001 | <0.0005 | <0.005 | 0.00135 | 0.579 | 0.79 | 0.000516 | <0.05 | <0.0002 | 0.00207 | <0.005 | <0.001 | |
| | 4/25/2017 | <0.001 | 0.00269 | 0.358 | <0.001 | <0.0005 | <0.005 | 0.00141 | 0.429 | 0.80 | 0.000522 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 6/15/2017 | <0.001 | 0.00371 | 0.318 | <0.001 | <0.0005 | <0.005 | 0.00127 | 0.8 | <0.5 | <0.0005 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 6/20/2017 | <0.001 | 0.00268 | 0.311 | <0.001 | <0.0005 | <0.005 | 0.00119 | 0.483 | 0.505 | 0.00171 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 7/12/2017 | <0.001 | 0.00263 | 0.328 | <0.001 | <0.0005 | <0.005 | 0.00112 | 1.56 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0021 | <0.005 | <0.001 | |
| | 7/13/2017 | <0.001 | 0.00325 | 0.33 | <0.001 | <0.0005 | <0.005 | 0.00108 | 0.502 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00206 | <0.005 | <0.001 | |
| | 3/12/2018 | <0.001 | 0.00295 | 0.306 | <0.001 | <0.0005 | <0.005 | 0.00189 | 0.492 | <0.5 | 0.00086 | 0.0297 | <0.0002 | <0.002 | <0.005 | <0.001 | |
| | 6/6/2018 | <0.001 | 0.00262 | 0.282 | <0.001 | <0.0005 | <0.005 | 0.00236 | 1.89 | <0.5 | 0.00577 | 0.0423 | <0.0002 | <0.002 | 0.00553 | <0.001 | |
| | 10/3/2018 | N.S. | 0.00965 | 0.388 | N.S. | N.S. | N.S. | 0.00191 | 1.62 | 0.738 | 0.00216 | 0.0316 | N.S. | 0.00243 | <0.005 | <0.001 | |
| | 4/8/2019 | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] |
| | 10/15/2019 | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] |
| 1/30/2020 | <0.00058 | 0.00824 | 0.230 | <0.00027 | <0.000039 | <0.0011 | 0.00198 | 0.0337U | <0.5 | 0.000335J | 0.0273 | <0.0001 | 0.00187J | <0.001 | <0.00026 | | |
| 4/20/2020 | <0.00058 | 0.00867 | 0.177 | <0.00027 | <0.000039 | <0.0011 | 0.00193 | 0.438 | 0.399J | 0.000311J | 0.0374 | <0.0001 | 0.00457 | <0.001 | <0.00026 | | |
| 4/27/2020 | <0.00058 | 0.0111 | 0.167 | <0.00027 | <0.000039 | <0.0011 | 0.00208 | -0.0922 | 0.383J | 0.000297J | 0.0348 | <0.0001 | 0.00335 | <0.001 | <0.00026 | | |
| 7/14/2020 | <0.00051 | 0.0118 | 0.182 | <0.00027 | <0.000049 | <0.0011 | 0.000549 | 0.539 | 0.267J | 0.000250J | 0.0277 | <0.0001 | 0.00130J | <0.001 | <0.00026 | | |
| 10/5/2020 | <0.00051 | 0.0188 | 0.225 | <0.00027 | <0.000049 | <0.0011 | 0.000384J | 0.872 | <0.23 | 0.000178J | 0.0322 | <0.0001 | <0.0011 | <0.001 | <0.00026 | | |
| 4/12/2021 | <0.00110 | 0.00487 | 0.0815 | <0.00027 | <0.000051 | <0.0011 | 0.00099 | 0.429U | 0.441J | 0.000353J | 0.0199 | <0.00015 | 0.00443 | 0.00194J | <0.00026 | | |
| 10/4/2021 | <0.00110 | 0.0402 | 0.257J | <0.00027 | <0.000051 | <0.0011 | 0.001020 | 1.84 | <0.275 | <0.000210 | 0.0330 | <0.00015 | <0.00130 | <0.000960 | <0.00026 | | |
| NC2MW-2 | 3/14/2016 | 0.00188 | <0.002 | 0.0679 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.967 | 0.371 | <0.0005 | 0.0512 | <0.0002 | 0.00207 | <0.005 | <0.001 | |
| | 6/3/2016 | 0.00944 | <0.002 | 0.136 | <0.001 | <0.0005 | 0.0153 | <0.0005 | 0.535 | <0.5 | 0.000538 | <0.05 | <0.0002 | 0.00368 | <0.005 | <0.001 | |
| | 8/31/2016 | 0.00812 | <0.002 | 0.0814 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.996 | <0.5 | 0.000872 | <0.05 | <0.0002 | 0.00757 | <0.005 | <0.001 | |
| | 11/17/2016 | 0.00452 | <0.002 | 0.122 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.39 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00519 | <0.005 | <0.001 | |
| | 2/15/2017 | 0.00331 | <0.002 | 0.144 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.304 | 2.51 | 0.000671 | <0.05 | <0.0002 | 0.0093 | <0.005 | <0.001 | |
| | 4/24/2017 | 0.00303 | <0.002 | 0.076 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.518 | 1.38 | <0.0005 | <0.05 | <0.0002 | 0.0158 | <0.005 | <0.001 | |
| | 6/15/2017 | 0.00282 | <0.002 | 0.0828 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.48 | <0.5 | 0.000721 | <0.05 | <0.0002 | 0.0106 | <0.005 | <0.001 | |
| | 7/12/2017 | 0.00266 | <0.002 | 0.0837 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.721 | <0.5 | 0.000949 | <0.05 | <0.0002 | 0.0174 | <0.005 | <0.001 | |
| | 3/12/2018 | 0.00261 | <0.002 | 0.12 | <0.001 | <0.0005 | <0.005 | 0.000626 | 0.882 | <0.5 | 0.000604 | 0.0165 | <0.0002 | 0.0402 | <0.005 | <0.001 | |
| | 6/6/2018 | 0.00345 | <0.002 | 0.179 | <0.001 | <0.0005 | <0.005 | 0.00132 | 1.15 | <0.5 | <0.0005 | 0.0201 | <0.0002 | 0.137 | <0.005 | <0.001 | |
| | 10/3/2018 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | <0.5 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | |
| | 4/8/2019 | N.S. | <0.002 | 0.127 | N.S. | <0.0005 | <0.005 | N.S. | N.S. | <0.5 | 0.00206 | N.S. | <0.0002 | N.S. | <0.005 | N.S. | |
| | 9/23/2019 | 0.00388 | <0.002 | 0.107 | <0.001 | <0.0001 | <0.005 | <0.0005 | N.S. | 0.546 | 0.00183 | 0.0150 | <0.0002 | 0.0938 | <0.005 | <0.001 | |
| | 10/15/2019 | 0.00900 | <0.002 | 0.142 | <0.001 | 0.000220 | <0.005 | <0.0005 | 0.650 | <0.5 | 0.000787 | 0.0313 | <0.0002 | 0.0361 | <0.005 | <0.001 | |
| 1/31/2020 | 0.00510 | <0.000880 | 0.133 | <0.00027 | 0.000111 | <0.0011 | 0.000277J | 0.736 | <0.5 | 0.00106 | 0.0406 | <0.0001 | 0.0158 | 0.00165J | <0.00026 | | |
| 4/27/2020 | 0.00243 | <0.000880 | 0.141 | <0.00027 | 0.0000980J | <0.0011 | 0.000161J | 0.987 | 0.256J | 0.00106 | 0.0411 | <0.0001 | 0.00966 | 0.00116J | <0.00026 | | |

Table 5 - Appendix IV (Assessment Monitoring) Constituents in Groundwater
Omaha Public Power District - NC2 Ash Disposal Area

| Constituent Reporting Unit | | Appendix IV (Assessment Monitoring) Constituents | | | | | | | | | | | | | | |
|-------------------------------|------------|--|-----------|----------|------------|------------|-----------|-----------|--------------------------------------|-----------|-----------|----------|----------|------------|----------|----------|
| | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium (Ra 226 + Ra 228) | Fluoride* | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pCi/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| NC2MW-2 | 7/14/2020 | 0.00268 | 0.000989J | 0.152 | <0.00027 | 0.000306 | <0.0011 | 0.000202J | 0.995 | <0.23 | 0.000908 | 0.0468 | <0.0001 | 0.0163 | <0.001 | <0.00026 |
| | 10/5/2020 | 0.00381 | 0.00117J | 0.170 | <0.00027 | 0.000186 | <0.0011 | 0.000208J | 1.06 | <0.23 | 0.000797 | 0.0523 | <0.0001 | 0.0177 | <0.001 | <0.00026 |
| | 4/12/2021 | 0.00524 | <0.000750 | 0.0967 | <0.000270 | 0.0000690J | <0.00110 | 0.000118J | 1.01 | 0.392J | 0.000752 | 0.0311 | <0.00015 | 0.0178 | 0.00641 | <0.00026 |
| | 10/4/2021 | 0.00323 | 0.000907J | 0.106 | <0.000270 | 0.000287 | <0.00110 | 0.00224 | 1.92 | <0.275 | 0.000609 | 0.0247 | <0.00015 | 0.0505 | 0.00128J | <0.00026 |
| NC2MW-3 | 3/14/2016 | <0.001 | 0.00762 | 0.253 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.948 | 0.168 | <0.0005 | <0.05 | <0.0002 | 0.00293 | <0.005 | <0.001 |
| | 6/3/2016 | <0.001 | 0.0191 | 0.362 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.924 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.00377 | <0.005 | <0.001 |
| | 8/31/2016 | <0.001 | 0.0103 | 0.211 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.446 | <0.5 | 0.000692 | <0.05 | <0.0002 | 0.00301 | <0.005 | <0.001 |
| | 11/17/2016 | <0.001 | 0.0113 | 0.234 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.616 | 1.28 | <0.0005 | <0.05 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 2/15/2017 | 0.00111 | 0.0066 | 0.281 | <0.001 | <0.0005 | <0.005 | 0.00051 | 0.381 | 5.11 | <0.0005 | <0.05 | <0.0002 | 0.0176 | <0.005 | <0.001 |
| | 4/24/2017 | <0.001 | 0.00892 | 0.174 | <0.001 | <0.0005 | <0.005 | 0.00216 | 0.521 | 2.87 | 0.000691 | <0.05 | <0.0002 | 0.00677 | <0.005 | <0.001 |
| | 6/15/2017 | <0.001 | 0.0101 | 0.225 | <0.001 | <0.0005 | <0.005 | 0.00103 | 0.928 | <0.5 | 0.00103 | <0.05 | <0.0002 | 0.00298 | <0.005 | <0.001 |
| | 7/12/2017 | <0.001 | 0.00286 | 0.267 | <0.001 | <0.0005 | <0.005 | 0.000806 | 0.479 | <0.5 | 0.000913 | <0.05 | <0.0002 | 0.00206 | <0.005 | <0.001 |
| | 3/12/2018 | <0.001 | 0.0027 | 0.125 | <0.001 | <0.0005 | <0.005 | 0.000997 | 0.6 | 0.723 | 0.00178 | 0.0128 | <0.0002 | 0.00454 | <0.005 | <0.001 |
| | 6/6/2019 | <0.001 | 0.00835 | 0.163 | <0.001 | <0.0005 | <0.005 | 0.00768 | 1.22 | <0.5 | <0.0005 | 0.0182 | <0.0002 | 0.0628 | <0.005 | <0.001 |
| | 10/3/2018 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | 0.532 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 4/8/2019 | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] | N/A [2] |
| | 9/23/2019 | <0.001 | 0.00325 | 0.289 | <0.001 | <0.0001 | <0.005 | 0.00224 | N.S. | 0.527 | <0.0005 | 0.0452 | <0.0002 | 0.00550 | <0.005 | <0.001 |
| | 10/15/2019 | <0.001 | 0.00344 | 0.312 | <0.001 | <0.0001 | <0.005 | 0.00232 | 0.878 | <0.5 | <0.0005 | 0.0428 | <0.0002 | 0.00526 | <0.005 | <0.001 |
| | 1/31/2020 | <0.00058 | 0.00338 | 0.297 | <0.00027 | <0.000039 | <0.0011 | 0.00197 | 0.707 | <0.5 | <0.00027 | 0.0333 | <0.0001 | 0.00392 | <0.001 | <0.00026 |
| | 4/27/2020 | <0.00058 | 0.00483 | 0.340 | <0.00027 | <0.000039 | <0.0011 | 0.00991 | 0.552 | 0.300J | 0.000617 | 0.0333 | <0.0001 | 0.00565 | <0.001 | <0.00026 |
| 7/14/2020 | <0.00051 | 0.00685 | 0.171 | <0.00027 | <0.000049 | <0.0011 | 0.00274 | 0.885 | <0.23 | 0.000595 | 0.0317 | <0.0001 | 0.0112 | <0.001 | <0.00026 | |
| 10/5/2020 | <0.00051 | 0.00735 | 0.191 | <0.00027 | <0.000049 | <0.0011 | 0.000647 | 1.32 | 0.535 | 0.000163J | 0.0399 | <0.0001 | 0.00487 | <0.001 | <0.00026 | |
| 4/12/2021 | <0.00110 | 0.00113J | 0.113 | <0.00027 | 0.0000680J | <0.0011 | 0.000188J | 0.188U | 1.37 | <0.000210 | 0.0146 | <0.0015 | 0.00306 | <0.00096 | <0.00026 | |
| 10/4/2021 | <0.00110 | 0.00354 | 0.0769 | <0.00027 | 0.0000820J | <0.0011 | 0.0115 | 0.898 | 0.492J | 0.000485J | 0.0241 | <0.00015 | 0.00356 | <0.00096 | <0.00026 | |
| NC2MW-6 | 3/14/2016 | <0.001 | <0.002 | 0.0818 | <0.001 | <0.0005 | 0.00629 | <0.0005 | 0.392 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0210 | 0.00645 | <0.001 |
| | 6/3/2016 | <0.001 | <0.002 | 0.0823 | <0.001 | <0.0005 | 0.00535 | <0.0005 | 0.603 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0593 | <0.005 | <0.001 |
| | 8/31/2016 | <0.001 | <0.002 | 0.122 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.03 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0677 | <0.005 | <0.001 |
| | 11/17/2016 | <0.001 | <0.002 | 0.109 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.48 | 6.53 | <0.0005 | <0.05 | <0.0002 | 0.0455 | <0.005 | <0.001 |
| | 2/15/2017 | <0.001 | <0.002 | 0.0948 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.429 | <0.5 | 0.000901 | <0.05 | <0.0002 | 0.0265 | <0.005 | <0.001 |
| | 4/24/2017 | <0.001 | <0.002 | 0.0791 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.425 | 1.71 | <0.0005 | <0.05 | <0.0002 | 0.041 | <0.005 | <0.001 |
| | 6/15/2017 | <0.001 | <0.002 | 0.105 | <0.001 | <0.0005 | 0.00501 | <0.0005 | 0.641 | <0.5 | 0.00329 | <0.05 | <0.0002 | 0.0354 | <0.005 | <0.001 |
| | 7/12/2017 | <0.001 | <0.002 | 0.0916 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.949 | <0.5 | <0.0005 | <0.05 | <0.0002 | 0.0419 | <0.005 | <0.001 |
| | 3/12/2018 | <0.001 | <0.002 | 0.107 | <0.001 | <0.0005 | <0.005 | 0.000505 | 0.530 | <0.5 | 0.00258 | 0.0371 | <0.0002 | 0.00672 | <0.005 | <0.001 |
| | 6/6/2018 | <0.001 | <0.002 | 0.12 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.020 | <0.5 | 0.00193 | 0.0321 | <0.0002 | 0.0108 | 0.00679 | <0.001 |
| | 10/3/2018 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | <0.5 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 4/8/2019 | N.S. | <0.002 | 0.121 | <0.001 | <0.0005 | <0.005 | N.S. | N.S. | <0.5 | 0.000527 | N.S. | <0.0002 | N.S. | <0.005 | N.S. |
| | 10/15/2019 | <0.001 | <0.002 | 0.145 | <0.001 | <0.0001 | <0.005 | <0.0005 | 0.494 | <0.5 | <0.0005 | 0.0408 | <0.0002 | 0.0121 | <0.005 | <0.001 |
| | 1/31/2020 | <0.00058 | <0.000880 | 0.118 | <0.00027 | <0.000039 | <0.0011 | <0.000091 | 0.616 | <0.5 | 0.000635 | 0.0321 | <0.0001 | 0.0123 | <0.001 | <0.00026 |
| | 4/27/2020 | <0.00058 | <0.000880 | 0.114 | <0.00027 | 0.0000540J | <0.0011 | <0.000091 | 0.155 | 0.335J | <0.00027 | 0.0258 | <0.0001 | 0.0114 | <0.001 | <0.00026 |
| | 7/14/2020 | <0.00051 | <0.000880 | 0.118 | <0.00027 | 0.0000680J | <0.0011 | 0.000122J | 0.870 | 0.232J | 0.000482J | 0.0309 | <0.0001 | 0.0133 | <0.001 | <0.00026 |
| 10/5/2020 | <0.00051 | 0.000889J | 0.132 | <0.00027 | 0.0000810J | <0.0011 | 0.000438J | 1.310 | 0.329J | 0.000929 | 0.0362 | <0.0001 | 0.0144 | <0.001 | <0.00026 | |
| 4/12/2021 | <0.00110 | <0.000750 | 0.0825 | <0.00027 | <0.000051 | 0.001796J | <0.000091 | 0.436 | <0.275 | 0.000264J | 0.0143 | <0.00015 | 0.0207 | 0.00154J | <0.00026 | |
| 10/4/2021 | <0.00110 | 0.000925J | 0.133 | <0.00027 | 0.000080J | <0.00110 | 0.000504 | 4.990 | <0.275 | 0.000719 | 0.0345 | <0.00015 | 0.0124 | <0.00096 | <0.00026 | |

Table 5 - Appendix IV (Assessment Monitoring) Constituents in Groundwater
Omaha Public Power District - NC2 Ash Disposal Area

| Constituent Reporting Unit | | Appendix IV (Assessment Monitoring) Constituents | | | | | | | | | | | | | | |
|-------------------------------|------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium (Ra 226 + Ra 228) | Fluoride* | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
| | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | pCi/L | mg/L |
| NC2MW-7 | 3/14/2016 | <0.001 | 0.0994 | 0.687 | <0.001 | <0.0005 | <0.005 | 0.000794 | 1.43 | 0.312 | <0.0005 | 0.0602 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 6/3/2016 | <0.001 | 0.0529 | 0.591 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.14 | <0.5 | 0.00166 | 0.0542 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 8/31/2016 | <0.001 | 0.0418 | 0.526 | <0.001 | <0.0005 | <0.005 | 0.000681 | 0.847 | <0.5 | <0.0005 | 0.0581 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 11/17/2016 | <0.001 | 0.0473 | 0.544 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.851 | 0.544 | <0.0005 | 0.0613 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 2/15/2017 | <0.001 | 0.0608 | 0.558 | <0.001 | <0.0005 | <0.005 | 0.000639 | 0.745 | <0.5 | <0.0005 | 0.0638 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 4/24/2017 | <0.001 | 0.0592 | 0.614 | <0.001 | <0.0005 | <0.005 | 0.000629 | 1.04 | 1.35 | <0.0005 | 0.0624 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 6/15/2017 | <0.001 | 0.0469 | 0.538 | <0.001 | <0.0005 | <0.005 | <0.0005 | 0.815 | <0.5 | <0.0005 | 0.0579 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 7/12/2017 | <0.001 | 0.041 | 0.501 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.15 | <0.5 | <0.0005 | 0.0602 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 3/12/2018 | <0.001 | 0.0387 | 0.473 | <0.001 | <0.0005 | <0.005 | <0.0005 | 1.06 | <0.5 | <0.0005 | 0.0546 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 6/6/2019 | <0.001 | 0.0418 | 0.624 | <0.001 | <0.0005 | <0.005 | 0.000876 | 0.986 | <0.5 | 0.00069 | 0.0535 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 10/3/2018 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. | 0.519 | N.S. | N.S. | N.S. | N.S. | N.S. | N.S. |
| | 4/8/2019 | N.S. | 0.0391 | 0.565 | N.S. | <0.0005 | <0.005 | N.S. | N.S. | <0.5 | <0.0005 | N.S. | <0.0002 | N.S. | <0.005 | N.S. |
| | 9/23/2019 | <0.001 | 0.0416 | 0.619 | <0.001 | <0.0001 | <0.005 | <0.0005 | N.S. | <0.5 | <0.0005 | 0.0622 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 10/15/2019 | <0.001 | 0.0384 | 0.597 | <0.001 | <0.0001 | <0.005 | <0.0005 | 0.532 | <0.5 | <0.0005 | 0.0633 | <0.0002 | <0.002 | <0.005 | <0.001 |
| | 2/3/2020 | <0.00058 | 0.0348 | 0.512 | <0.00027 | <0.000039 | <0.0011 | 0.000353J | 0.615 | 0.357J | <0.00027 | 0.0545 | <0.0001 | 0.00163J | <0.001 | <0.00026 |
| | 4/27/2020 | <0.00058 | 0.0388 | 0.534 | <0.00027 | <0.000039 | <0.0011 | 0.000396J | 0.722 | 0.429J | <0.00027 | 0.0568 | <0.0001 | 0.00185J | <0.001 | <0.00026 |
| | 7/14/2020 | <0.00051 | 0.0381 | 0.515 | <0.00027 | <0.000049 | <0.0011 | 0.000233J | 0.804 | <0.23 | <0.00011 | 0.0580 | <0.0001 | 0.00170J | <0.001 | <0.00026 |
| 10/5/2020 | <0.00051 | 0.0435 | 0.585 | <0.00027 | <0.000049 | <0.0011 | 0.000233J | 0.71 | 0.322J | <0.00011 | 0.0641 | <0.0001 | 0.00122J | <0.001 | <0.00026 | |
| 4/12/2021 | <0.00110 | 0.0439 | 0.53 | <0.00027 | <0.000051 | <0.0011 | 0.000384J | 1.05 | 0.415J | <0.00021 | 0.064 | <0.00015 | 0.00195J | <0.00096 | <0.00026 | |
| 10/4/2021 | <0.00110 | 0.0427 | 0.592 | <0.00027 | <0.000051 | <0.0011 | 0.000253J | 1.77 | <0.275 | <0.00021 | 0.0566 | <0.00015 | 0.00183J | <0.00096 | <0.00026 | |
| NC2MW-8 ^[1] | 10/3/2018 | <0.001 | 0.0223 | 0.617 | <0.001 | <0.0005 | <0.005 | 0.0025 | 1.7 | 0.566 | 0.00125 | 0.0347 | <0.0002 | 0.00307 | <0.005 | <0.001 |
| | 1/15/2019 | <0.001 | 0.0177 | 0.503 | <0.001 | <0.0005 | <0.005 | 0.00224 | 0.716 | <0.5 | <0.0005 | 0.0292 | <0.0002 | 0.00288 | <0.005 | <0.001 |
| | 3/5/2019 | <0.001 | 0.00716 | 0.566 | <0.001 | <0.0005 | <0.005 | 0.00304 | N.S. | <0.5 | <0.0005 | 0.036 | <0.0002 | 0.00304 | <0.005 | <0.001 |
| | 4/8/2019 | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] | N/A ^[2] |
| | 9/23/2019 | <0.001 | 0.0175 | 0.609 | <0.001 | <0.0001 | <0.005 | 0.00172 | N.S. | 0.582 | <0.0005 | 0.0369 | <0.0002 | 0.00327 | <0.005 | <0.001 |
| | 10/16/2019 | <0.001 | 0.0206 | 0.596 | <0.001 | <0.0001 | <0.005 | 0.00175 | 0.735 | <0.5 | <0.0005 | 0.0333 | <0.0002 | 0.00347 | <0.005 | <0.001 |
| | 1/31/2020 | <0.00058 | 0.00168J | 0.191 | <0.00027 | 0.000160 | <0.0011 | 0.00133 | 0.445 | <0.5 | <0.00027 | 0.0249 | <0.0001 | <0.0011 | <0.001 | <0.00026 |
| | 4/27/2020 | <0.00058 | 0.0190 | 0.548 | <0.00027 | <0.000039 | <0.0011 | 0.00201 | 0.587 | 0.504 | <0.00027 | 0.0297 | <0.0001 | 0.00291 | <0.001 | <0.00026 |
| | 7/14/2020 | <0.00051 | 0.0195 | 0.523 | <0.00027 | <0.000049 | <0.0011 | 0.00178 | 0.598 | <0.23 | 0.000201J | 0.0306 | <0.0001 | 0.00285 | <0.001 | <0.00026 |
| | 10/5/2020 | <0.00051 | 0.0322 | 0.579 | <0.00027 | <0.000049 | <0.0011 | 0.00176 | 1.24 | 0.331J | 0.000486J | 0.0325 | <0.0001 | 0.00220 | <0.001 | <0.00026 |
| 4/12/2021 | <0.00110 | 0.0108 | 0.489 | <0.00027 | 0.0000520J | <0.0011 | 0.0022 | 0.615 | 0.393J | 0.000490J | 0.0340 | <0.00015 | 0.00267 | 0.00142J | <0.00026 | |
| 10/4/2021 | <0.00110 | 0.00958 | 0.616 | <0.00027 | <0.000051 | <0.0011 | 0.00229 | 2.32 | <0.275 | 0.000393J | 0.0340 | <0.00015 | 0.00281 | <0.00096 | <0.00026 | |

N.S. indicates analyte not sampled because NC2 was detection monitoring.

< for the period of March 2016 through October 2019, the symbol indicates analyte not detected above the Reporting Limit, which is the value shown following the "<" symbol. Starting in January 2020, the symbol indicates analyte not detected above the Method Detection Limit, which is the value shown following the "<" symbol.

"U" data qualifier (radium) indicates parameter was analyzed for but not detected above limiting criteria (such as, but not limited to: minimum detectable concentration; total uncertainty; Reporting Limit) as defined in the analytical laboratory data package.

"J" data qualifier indicates that value is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

^[1] NC2MW-8 was installed July 9, 2018 and was added to the Groundwater Monitoring System Certification in June 2019. The 9/23/2019 sampling event was part of an Alternative Source Demonstration for the Title 132 Groundwater Assessment Report.

^[2] MW-13, NC2MW-3, and NC2MW-8 were surrounded by ponding water during April 2019 sampling event and were not sampled. MW-13 was surrounded by ponding water during October 2019 sample and was not sampled.

* Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

Table 6 - Background Threshold Values for Assessment Monitoring
 Omaha Public Power District - NC2 Ash Disposal Area

| Constituents | Units | Background Threshold Values (BTVs) |
|--|-------|------------------------------------|
| Appendix III (Detection Monitoring) | | |
| Boron | mg/l | 4.63 |
| Calcium | mg/l | 237 |
| Chloride | mg/l | 36.6 |
| Fluoride ^[1] | mg/l | 1.28 |
| pH (LPL) ^[2] | SU | 6.48 |
| pH (UPL) ^[3] | SU | 7.92 |
| Sulfate | mg/l | 611 |
| TDS | mg/l | 1,390 |
| Appendix IV (Assessment Monitoring) | | |
| Antimony ^[4] | mg/l | 0.0020 |
| Arsenic | mg/l | 0.0111 |
| Barium | mg/l | 0.390 |
| Beryllium | mg/l | 0.001 |
| Cadmium | mg/l | 0.000138 |
| Chromium | mg/l | 0.005 |
| Cobalt | mg/l | 0.00236 |
| Fluoride ^[1] | mg/l | 1.28 |
| Lead | mg/l | 0.0032 |
| Lithium | mg/l | 0.0423 |
| Mercury | mg/l | 0.0002 |
| Molybdenum | mg/l | 0.0339 |
| Radium 226 + 228 | pCi/l | 1.97 |
| Selenium | mg/l | 0.0238 |
| Thallium | mg/l | 0.001 |

Notes:

^[1] Fluoride is listed in both Appendix III and Appendix IV of the CCR Final Rule (40 CFR Part 257).

^[2] Indicates the lower bound of the range is the lower prediction limit (LPL).

^[3] Indicates the upper bound is the upper prediction limit (UPL).

^[4] Antimony UPL was previously 0.001 mg/l based on the laboratory's reporting limit (RL). The lab adjusted the RL for antimony to 0.002 mg/l during their annual quality control review. The UPL has been updated to 0.002 mg/l to reflect the change in the laboratory's RL.

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Table 7 - Established Groundwater Protection Standards
 Omaha Public Power District - NC2 Ash Disposal Area

| Constituents | Units | Established Groundwater Protection Standard (GWPS) ^[1] |
|--|-------|---|
| Appendix IV (Assessment Monitoring) | | |
| Antimony | mg/l | 0.006 |
| Arsenic | mg/l | 0.0111 ^[2] |
| Barium | mg/l | 2.0 |
| Beryllium | mg/l | 0.004 |
| Cadmium | mg/l | 0.005 |
| Chromium | mg/l | 0.1 |
| Cobalt | mg/l | 0.006 |
| Flouride | mg/l | 4 |
| Lead | mg/l | 0.015 |
| Lithium | mg/l | 0.0423 ^[2] |
| Mercury | mg/l | 0.002 |
| Molybdenum | mg/l | 0.1 |
| Radium 226 + 228 | pCi/l | 5 |
| Selenium | mg/l | 0.05 |
| Thallium | mg/l | 0.002 |

Notes:

^[1] GWPS is established as the U.S. EPA Maximum Contaminant Level (MCL) or the GWPS specified in §257.95(h)(2); unless otherwise specified.

^[2] GWPS is established as the upper prediction limit (UPL) when the background level is higher than the U.S. EPA MCL or the GWPS specified in §257.95(h)(2).

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Appendix A

Field Sampling Forms

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NEBRASKA CITY STATION

Water Levels Prior to Purging (Feet Below TOC)

| | | | | | | |
|--------|------------------|----------|------------------|-------|--------------------|-------|
| NC1MW2 | Date of Sampling | 4/6/2021 | Time of Sampling | 15:07 | Static Water Level | 8.91 |
| NC1MW3 | Date of Sampling | 4/6/2021 | Time of Sampling | 15:33 | Static Water Level | 8.90 |
| NC1MW4 | Date of Sampling | 4/6/2021 | Time of Sampling | 15:25 | Static Water Level | 9.53 |
| NC1MW5 | Date of Sampling | 4/6/2021 | Time of Sampling | 11:00 | Static Water Level | 10.95 |
| NC1MW6 | Date of Sampling | 4/6/2021 | Time of Sampling | 11:33 | Static Water Level | 7.58 |
| NC1MW7 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:51 | Static Water Level | 8.20 |
| NC1MW8 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:50 | Static Water Level | 8.54 |
| NC1MW9 | Date of Sampling | 4/6/2021 | Time of Sampling | 15:40 | Static Water Level | 9.34 |
| NC2MW2 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:33 | Static Water Level | 10.57 |
| NC2MW3 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:29 | Static Water Level | 7.72 |
| NC2MW4 | Date of Sampling | 4/6/2021 | Time of Sampling | 10:41 | Static Water Level | 6.76 |
| NC2MW5 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:14 | Static Water Level | 5.87 |
| NC2MW6 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:20 | Static Water Level | 7.62 |
| NC2MW7 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:38 | Static Water Level | 6.76 |
| NC2MW8 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:27 | Static Water Level | 6.03 |
| MW11 | Date of Sampling | 4/6/2021 | Time of Sampling | 14:58 | Static Water Level | 7.01 |
| MW12 | Date of Sampling | 4/6/2021 | Time of Sampling | 15:02 | Static Water Level | 8.97 |
| MW13 | Date of Sampling | 4/6/2021 | Time of Sampling | 10:38 | Static Water Level | 4.73 |
| MW14 | Date of Sampling | 4/6/2021 | Time of Sampling | 10:46 | Static Water Level | 8.51 |

NOTES:

TOC = Top of Casing

NM = Not Measured, Inaccessible

Equipment Calibration Sheet

Date: 4/12/2021

Time: 6:26

Person Calibrating Instrument: Kyle K. Uhing

| Instrument Type | Instrument Brand | Instrument Model | Instrument Serial Number |
|-----------------------------|------------------|------------------|--------------------------|
| Multi-Parameter Water Meter | Horiba | U-5000/U-52 | KE3AGWPR/NTKDC76Y |

| Parameter: | Reading | Units |
|--------------|---------|-------------------------|
| pH 4 | 4.00 | NA |
| Conductivity | 4.46 | $\mu\text{S}/\text{cm}$ |
| Turbidity | 0.0 | NTU |
| DO | 9.96 | mg/L |

Comments:

The Horiba was calibrated using pH 4.0 AutoCal buffer solution.

NEBRASKA CITY STATION

Water Levels Prior to Purging (Feet Below TOC)

| | | | | | | |
|--------|------------------|-----------|------------------|-------|--------------------|-------|
| NC1MW2 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:50 | Static Water Level | 11.27 |
| NC1MW3 | Date of Sampling | 10/1/2021 | Time of Sampling | 14:11 | Static Water Level | 11.74 |
| NC1MW4 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:54 | Static Water Level | 11.84 |
| NC1MW5 | Date of Sampling | 10/1/2021 | Time of Sampling | 14:35 | Static Water Level | 13.54 |
| NC1MW6 | Date of Sampling | 10/1/2021 | Time of Sampling | 14:26 | Static Water Level | 9.66 |
| NC1MW7 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:24 | Static Water Level | 10.69 |
| NC1MW8 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:25 | Static Water Level | 11.02 |
| NC1MW9 | Date of Sampling | 10/1/2021 | Time of Sampling | 14:16 | Static Water Level | 12.00 |
| NC2MW2 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:03 | Static Water Level | 13.48 |
| NC2MW3 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:55 | Static Water Level | 11.55 |
| NC2MW4 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:19 | Static Water Level | 10.17 |
| NC2MW5 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:42 | Static Water Level | 13.15 |
| NC2MW6 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:48 | Static Water Level | 10.38 |
| NC2MW7 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:10 | Static Water Level | 9.37 |
| NC2MW8 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:00 | Static Water Level | 9.16 |
| MW11 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:31 | Static Water Level | 9.88 |
| MW12 | Date of Sampling | 10/1/2021 | Time of Sampling | 13:35 | Static Water Level | 11.86 |
| MW13 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:13 | Static Water Level | 8.32 |
| MW14 | Date of Sampling | 10/1/2021 | Time of Sampling | 12:24 | Static Water Level | 11.98 |

NOTES:

TOC = Top of Casing

NM = Not Measured, Inaccessible

Equipment Calibration Sheet

Date: 10/4/2021

Time: 6:09

Person Calibrating Instrument: Kyle K. Uhing

| Instrument Type | Instrument Brand | Instrument Model | Instrument Serial Number |
|-----------------------------|------------------|------------------|--------------------------|
| Multi-Parameter Water Meter | Horiba | U-5000/U-52 | KE3AGWPR/NTKDC76Y |

| Parameter: | Reading | Units |
|--------------|---------|-------------------------|
| pH 4 | 4.00 | NA |
| Conductivity | 4.46 | $\mu\text{S}/\text{cm}$ |
| Turbidity | 0.0 | NTU |
| DO | 10.09 | mg/L |

Comments:

The Horiba was calibrated using pH 4.0 AutoCal buffer solution.



Appendix B

Laboratory Analytical Reports

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Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204265-1
Client Project/Site: Nebraska City Unit 2 CCR/Landfill

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
4/23/2021 5:30:02 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Laboratory Job ID: 310-204265-1

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results through
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www.eurofinsus.com/Env

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

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

Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Job ID: 310-204265-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-204265-1**

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -1.1° C, -0.8° C and 0.0° C.

HPLC/IC

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

Metals

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

General Chemistry

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

Sample Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204265-1 | NC2MW2 | Water | 04/12/21 15:53 | 04/14/21 09:30 | |
| 310-204265-2 | NC2MW3 | Water | 04/12/21 14:07 | 04/14/21 09:30 | |
| 310-204265-3 | NC2MW5 | Water | 04/12/21 11:56 | 04/14/21 09:30 | |
| 310-204265-4 | NC2MW6 | Water | 04/12/21 13:18 | 04/14/21 09:30 | |
| 310-204265-5 | NC2MW7 | Water | 04/12/21 18:24 | 04/14/21 09:30 | |
| 310-204265-6 | NC2MW8 | Water | 04/12/21 15:15 | 04/14/21 09:30 | |
| 310-204265-7 | DUP2 | Water | 04/12/21 00:00 | 04/14/21 09:30 | |

Detection Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW2

Lab Sample ID: 310-204265-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 24.7 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.392 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 458 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Antimony | 0.00524 | | 0.00200 | 0.00110 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.0967 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.371 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Cadmium | 0.0000690 | J | 0.000100 | 0.0000510 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 235 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000118 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lead | 0.000752 | | 0.000500 | 0.000210 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0311 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.0178 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.00641 | | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 1040 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: NC2MW3

Lab Sample ID: 310-204265-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 22.7 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 1.37 | | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 379 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.00113 | J | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.113 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.271 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Cadmium | 0.0000680 | J | 0.000100 | 0.0000510 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 141 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000188 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0146 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.00306 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 1080 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: NC2MW5

Lab Sample ID: 310-204265-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 9.45 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.356 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 203 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.00170 | J | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.0245 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 2.24 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 114 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000105 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.00783 | J | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.0252 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.00867 | | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 606 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: NC2MW6

Lab Sample ID: 310-204265-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------|--------|-----------|------|------|------|-----|-----|---|--------|-----------|
| Chloride | 3.57 | J | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 101 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW6 (Continued)

Lab Sample ID: 310-204265-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|----------|------|-----|-----|---|----------|-----------|
| Barium | 0.0825 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 1.94 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 90.4 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Chromium | 0.00176 | J | 0.00500 | 0.00110 | mg/L | 1 | | | 6020A | Total/NA |
| Lead | 0.000264 | J | 0.000500 | 0.000210 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0143 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.0207 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.00154 | J | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 406 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: NC2MW7

Lab Sample ID: 310-204265-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 8.69 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.415 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.0439 | | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.530 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.227 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 124 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000384 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0640 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.00195 | J | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 494 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: NC2MW8

Lab Sample ID: 310-204265-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 11.8 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.393 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 7.34 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.0108 | | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.489 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.0894 | J | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Cadmium | 0.0000520 | J | 0.000100 | 0.0000510 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 121 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.00220 | | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lead | 0.000490 | J | 0.000500 | 0.000210 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0340 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.00267 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.00142 | J | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 470 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: DUP2

Lab Sample ID: 310-204265-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------|----------|-----------|----------|-----------|------|-----|-----|---|--------|-----------|
| Chloride | 8.81 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.418 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.0451 | | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.551 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.189 | | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 126 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000394 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: DUP2 (Continued)

Lab Sample ID: 310-204265-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|---------|-----------|---------|---------|------|-----|-----|---|----------|-----------|
| Lithium | 0.0652 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.00201 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 476 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW2

Lab Sample ID: 310-204265-1

Date Collected: 04/12/21 15:53

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|-----|-----|
| Chloride | 24.7 | | 5.00 | 2.15 | mg/L | | | 04/20/21 04:13 | | 5 |
| Fluoride | 0.392 | J | 0.500 | 0.275 | mg/L | | | 04/20/21 04:13 | | 5 |
| Sulfate | 458 | | 5.00 | 2.45 | mg/L | | | 04/20/21 04:13 | | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|-----|-----|
| Antimony | 0.00524 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Barium | 0.0967 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Boron | 0.371 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Cadmium | 0.0000690 | J | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Calcium | 235 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Cobalt | 0.000118 | J | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Lead | 0.000752 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Lithium | 0.0311 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Molybdenum | 0.0178 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Selenium | 0.00641 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 21:35 | | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|-----|-----|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:17 | | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|-----|-----|
| Total Dissolved Solids | 1040 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | | 1 |

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Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW3

Lab Sample ID: 310-204265-2

Date Collected: 04/12/21 14:07

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 22.7 | | 5.00 | 2.15 | mg/L | | | 04/20/21 04:29 | 5 |
| Fluoride | 1.37 | | 0.500 | 0.275 | mg/L | | | 04/20/21 04:29 | 5 |
| Sulfate | 379 | | 5.00 | 2.45 | mg/L | | | 04/20/21 04:29 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Arsenic | 0.00113 | J | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Barium | 0.113 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Boron | 0.271 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Cadmium | 0.0000680 | J | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Calcium | 141 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Cobalt | 0.000188 | J | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Lithium | 0.0146 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Molybdenum | 0.00306 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 21:38 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:19 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 1080 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW5

Lab Sample ID: 310-204265-3

Date Collected: 04/12/21 11:56

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 9.45 | | 5.00 | 2.15 | mg/L | | | 04/20/21 04:44 | 5 |
| Fluoride | 0.356 | J | 0.500 | 0.275 | mg/L | | | 04/20/21 04:44 | 5 |
| Sulfate | 203 | | 5.00 | 2.45 | mg/L | | | 04/20/21 04:44 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Arsenic | 0.00170 | J | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Barium | 0.0245 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Boron | 2.24 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Calcium | 114 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Cobalt | 0.000105 | J | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Lithium | 0.00783 | J | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Molybdenum | 0.0252 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Selenium | 0.00867 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 21:40 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:21 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 606 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW6

Lab Sample ID: 310-204265-4

Date Collected: 04/12/21 13:18

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|-----|-----|
| Chloride | 3.57 | J | 5.00 | 2.15 | mg/L | | | 04/20/21 05:00 | 5 | |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 04/20/21 05:00 | 5 | |
| Sulfate | 101 | | 5.00 | 2.45 | mg/L | | | 04/20/21 05:00 | 5 | |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|-----|-----|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Barium | 0.0825 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Boron | 1.94 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Calcium | 90.4 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Chromium | 0.00176 | J | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Cobalt | <0.0000910 | | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Lead | 0.000264 | J | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Lithium | 0.0143 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Molybdenum | 0.0207 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Selenium | 0.00154 | J | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 21:43 | 1 | |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|-----|-----|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:23 | 1 | |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|-----|-----|
| Total Dissolved Solids | 406 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 | |

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Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW7

Lab Sample ID: 310-204265-5

Date Collected: 04/12/21 18:24

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|-----|-----|
| Chloride | 8.69 | | 5.00 | 2.15 | mg/L | | | 04/20/21 05:47 | 5 | |
| Fluoride | 0.415 | J | 0.500 | 0.275 | mg/L | | | 04/20/21 05:47 | 5 | |
| Sulfate | <2.45 | | 5.00 | 2.45 | mg/L | | | 04/20/21 05:47 | 5 | |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|-----|-----|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Arsenic | 0.0439 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Barium | 0.530 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Boron | 0.227 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Calcium | 124 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Cobalt | 0.000384 | J | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Lithium | 0.0640 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Molybdenum | 0.00195 | J | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 21:48 | 1 | |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|-----|-----|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:26 | 1 | |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil | Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|-----|-----|
| Total Dissolved Solids | 494 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 | |

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Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW8

Lab Sample ID: 310-204265-6

Date Collected: 04/12/21 15:15

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 11.8 | | 5.00 | 2.15 | mg/L | | | 04/20/21 06:03 | 5 |
| Fluoride | 0.393 | J | 0.500 | 0.275 | mg/L | | | 04/20/21 06:03 | 5 |
| Sulfate | 7.34 | | 5.00 | 2.45 | mg/L | | | 04/20/21 06:03 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Arsenic | 0.0108 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Barium | 0.489 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Boron | 0.0894 | J | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Cadmium | 0.0000520 | J | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Calcium | 121 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Cobalt | 0.00220 | | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Lead | 0.000490 | J | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Lithium | 0.0340 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Molybdenum | 0.00267 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Selenium | 0.00142 | J | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 22:02 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:28 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 470 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: DUP2

Lab Sample ID: 310-204265-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 8.81 | | 5.00 | 2.15 | mg/L | | | 04/20/21 06:18 | 5 |
| Fluoride | 0.418 | J | 0.500 | 0.275 | mg/L | | | 04/20/21 06:18 | 5 |
| Sulfate | <2.45 | | 5.00 | 2.45 | mg/L | | | 04/20/21 06:18 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Arsenic | 0.0451 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Barium | 0.551 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Boron | 0.189 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Calcium | 126 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Cobalt | 0.000394 | J | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Lithium | 0.0652 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Molybdenum | 0.00201 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 22:04 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 16:30 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 476 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

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

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QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-313625/3
Matrix: Water
Analysis Batch: 313625

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| Chloride | <0.430 | | 1.00 | 0.430 | mg/L | | | 04/20/21 02:40 | 1 |
| Fluoride | <0.0550 | | 0.100 | 0.0550 | mg/L | | | 04/20/21 02:40 | 1 |
| Sulfate | <0.490 | | 1.00 | 0.490 | mg/L | | | 04/20/21 02:40 | 1 |

Lab Sample ID: LCS 310-313625/4
Matrix: Water
Analysis Batch: 313625

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Chloride | 10.0 | 9.788 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 2.00 | 2.201 | | mg/L | | 110 | 90 - 110 |
| Sulfate | 10.0 | 10.51 | | mg/L | | 105 | 90 - 110 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-312828/1-A
Matrix: Water
Analysis Batch: 313546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312828

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Barium | <0.000300 | | 0.00200 | 0.000300 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Boron | <0.0580 | | 0.100 | 0.0580 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Calcium | <0.190 | | 0.500 | 0.190 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Cobalt | <0.0000910 | | 0.000500 | 0.0000910 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Lithium | <0.00250 | | 0.0100 | 0.00250 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Molybdenum | <0.00130 | | 0.00200 | 0.00130 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/15/21 09:19 | 04/21/21 20:52 | 1 |

Lab Sample ID: LCS 310-312828/2-A
Matrix: Water
Analysis Batch: 313546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312828

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| Antimony | 0.200 | 0.1869 | | mg/L | | 93 | 80 - 120 |
| Arsenic | 0.200 | 0.1968 | | mg/L | | 98 | 80 - 120 |
| Barium | 0.100 | 0.09920 | | mg/L | | 99 | 80 - 120 |
| Beryllium | 0.100 | 0.1012 | | mg/L | | 101 | 80 - 120 |
| Boron | 0.200 | 0.1811 | | mg/L | | 91 | 80 - 120 |
| Cadmium | 0.100 | 0.09523 | | mg/L | | 95 | 80 - 120 |
| Calcium | 2.00 | 1.721 | | mg/L | | 86 | 80 - 120 |
| Chromium | 0.100 | 0.09888 | | mg/L | | 99 | 80 - 120 |
| Cobalt | 0.100 | 0.09555 | | mg/L | | 96 | 80 - 120 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
|------------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | %Rec | Limits |
| Lead | 0.200 | 0.1907 | | mg/L | | 95 | 80 - 120 | |
| Lithium | 0.200 | 0.1970 | | mg/L | | 98 | 80 - 120 | |
| Molybdenum | 0.200 | 0.1862 | | mg/L | | 93 | 80 - 120 | |
| Selenium | 0.400 | 0.3817 | | mg/L | | 95 | 80 - 120 | |
| Thallium | 0.200 | 0.1767 | | mg/L | | 88 | 80 - 120 | |

Lab Sample ID: 310-204265-4 DU
Matrix: Water
Analysis Batch: 313546

Client Sample ID: NC2MW6
Prep Type: Total/NA
Prep Batch: 312828

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | |
|------------|---------------|------------------|-------------|--------------|------|---|------|-------|
| | | | | | | | RPD | Limit |
| Antimony | <0.00110 | | <0.00110 | | mg/L | | NC | 20 |
| Arsenic | <0.000750 | | <0.000750 | | mg/L | | NC | 20 |
| Barium | 0.0825 | | 0.08312 | | mg/L | | 0.7 | 20 |
| Beryllium | <0.000270 | | <0.000270 | | mg/L | | NC | 20 |
| Boron | 1.94 | | 1.928 | | mg/L | | 0.4 | 20 |
| Cadmium | <0.0000510 | | <0.0000510 | | mg/L | | NC | 20 |
| Calcium | 90.4 | | 89.46 | | mg/L | | 1 | 20 |
| Chromium | 0.00176 J | | 0.001763 J | | mg/L | | 0.06 | 20 |
| Cobalt | <0.0000910 | | <0.0000910 | | mg/L | | NC | 20 |
| Lead | 0.000264 J | | 0.0002620 J | | mg/L | | 0.8 | 20 |
| Lithium | 0.0143 | | 0.01426 | | mg/L | | 0.6 | 20 |
| Molybdenum | 0.0207 | | 0.02059 | | mg/L | | 0.5 | 20 |
| Selenium | 0.00154 J | | 0.001556 J | | mg/L | | 0.8 | 20 |
| Thallium | <0.000260 | | <0.000260 | | mg/L | | NC | 20 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-313369/1-A
Matrix: Water
Analysis Batch: 313511

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313369

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:33 | 04/21/21 15:30 | 1 |

Lab Sample ID: LCS 310-313369/2-A
Matrix: Water
Analysis Batch: 313511

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313369

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
|---------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | %Rec | Limits |
| Mercury | 0.00167 | 0.001760 | | mg/L | | 106 | 80 - 120 | |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-312885/1
Matrix: Water
Analysis Batch: 312885

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <26.0 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | |
|------------------------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | %Rec | Limits |
| Total Dissolved Solids | 1000 | 974.0 | | mg/L | | 97 | 90 - 110 | |

Lab Sample ID: LCS 310-312885/2
Matrix: Water
Analysis Batch: 312885

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

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

HPLC/IC

Analysis Batch: 313625

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | 9056A | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | 9056A | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | 9056A | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | 9056A | |
| 310-204265-5 | NC2MW7 | Total/NA | Water | 9056A | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | 9056A | |
| 310-204265-7 | DUP2 | Total/NA | Water | 9056A | |
| MB 310-313625/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-313625/4 | Lab Control Sample | Total/NA | Water | 9056A | |

Metals

Prep Batch: 312828

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | 3010A | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | 3010A | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | 3010A | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | 3010A | |
| 310-204265-5 | NC2MW7 | Total/NA | Water | 3010A | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | 3010A | |
| 310-204265-7 | DUP2 | Total/NA | Water | 3010A | |
| MB 310-312828/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-312828/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-204265-4 DU | NC2MW6 | Total/NA | Water | 3010A | |

Prep Batch: 313369

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | 7470A | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | 7470A | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | 7470A | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | 7470A | |
| 310-204265-5 | NC2MW7 | Total/NA | Water | 7470A | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | 7470A | |
| 310-204265-7 | DUP2 | Total/NA | Water | 7470A | |
| MB 310-313369/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-313369/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 313511

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | 7470A | 313369 |
| 310-204265-2 | NC2MW3 | Total/NA | Water | 7470A | 313369 |
| 310-204265-3 | NC2MW5 | Total/NA | Water | 7470A | 313369 |
| 310-204265-4 | NC2MW6 | Total/NA | Water | 7470A | 313369 |
| 310-204265-5 | NC2MW7 | Total/NA | Water | 7470A | 313369 |
| 310-204265-6 | NC2MW8 | Total/NA | Water | 7470A | 313369 |
| 310-204265-7 | DUP2 | Total/NA | Water | 7470A | 313369 |
| MB 310-313369/1-A | Method Blank | Total/NA | Water | 7470A | 313369 |
| LCS 310-313369/2-A | Lab Control Sample | Total/NA | Water | 7470A | 313369 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Metals

Analysis Batch: 313546

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | 6020A | 312828 |
| 310-204265-2 | NC2MW3 | Total/NA | Water | 6020A | 312828 |
| 310-204265-3 | NC2MW5 | Total/NA | Water | 6020A | 312828 |
| 310-204265-4 | NC2MW6 | Total/NA | Water | 6020A | 312828 |
| 310-204265-5 | NC2MW7 | Total/NA | Water | 6020A | 312828 |
| 310-204265-6 | NC2MW8 | Total/NA | Water | 6020A | 312828 |
| 310-204265-7 | DUP2 | Total/NA | Water | 6020A | 312828 |
| MB 310-312828/1-A | Method Blank | Total/NA | Water | 6020A | 312828 |
| LCS 310-312828/2-A | Lab Control Sample | Total/NA | Water | 6020A | 312828 |
| 310-204265-4 DU | NC2MW6 | Total/NA | Water | 6020A | 312828 |

General Chemistry

Analysis Batch: 312885

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | SM 2540C | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | SM 2540C | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | SM 2540C | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | SM 2540C | |
| 310-204265-5 | NC2MW7 | Total/NA | Water | SM 2540C | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | SM 2540C | |
| 310-204265-7 | DUP2 | Total/NA | Water | SM 2540C | |
| MB 310-312885/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-312885/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW2

Date Collected: 04/12/21 15:53

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 04:13 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 21:35 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:17 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: NC2MW3

Date Collected: 04/12/21 14:07

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 04:29 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 21:38 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:19 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: NC2MW5

Date Collected: 04/12/21 11:56

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 04:44 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 21:40 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:21 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: NC2MW6

Date Collected: 04/12/21 13:18

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 05:00 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 21:43 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:23 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Client Sample ID: NC2MW7

Date Collected: 04/12/21 18:24

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 05:47 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 21:48 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:26 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: NC2MW8

Date Collected: 04/12/21 15:15

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 06:03 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 22:02 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:28 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: DUP2

Date Collected: 04/12/21 00:00

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204265-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313625 | 04/20/21 06:18 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312828 | 04/15/21 09:19 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313546 | 04/21/21 22:04 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313369 | 04/20/21 14:33 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313511 | 04/21/21 16:30 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

Laboratory: Eurofins TestAmerica, Cedar Falls

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|--------------------------------|-----------------------|-----------------|
| Colorado | Petroleum Storage Tank Program | IA100001 (OR) | 09-29-21 |
| Georgia | State | IA100001 (OR) | 09-29-21 |
| Illinois | NELAP | 200024 | 11-29-21 |
| Iowa | State | 007 | 12-01-21 |
| Kansas | NELAP | E-10341 | 01-31-22 |
| Minnesota | NELAP | 019-999-319 | 12-31-21 |
| Minnesota (Petrofund) | State | 3349 | 08-22-21 |
| North Dakota | State | R-186 | 09-29-21 |
| Oregon | NELAP | IA100001 | 09-29-21 |
| USDA | US Federal Programs | P330-19-00003 | 01-02-22 |

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-1

| Method | Method Description | Protocol | Laboratory |
|----------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
TestAmerica



310-204265 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|--|
| Client Information: | | |
| Client: <u>Omaha Public Power</u> | Project: <u>Nebraska City</u> | |
| City/State: <u>Omaha NE</u> | Project: <u>Nebraska City</u> | |
| Receipt Information: | | |
| Date/Time Received: <u>4/13/21 0930</u> | Received By: <u>AM</u> | |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers: | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>5</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record: | | |
| Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> | |
| *Temp/Blank Temperature -- If no temp/blank, or temp/blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>-0.9</u> | Corrected Temp (°C): <u>-0.8</u> | |
| Sample Container Temperature: | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted: | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments: | | |
| <u>NC1MW2 NC1MW1</u> | | |
| <u>NC2MW2 MW11</u> | | |
| <u>NC2MW3</u> | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Environment Testing
TestAmerica

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|--|
| Client Information: | | |
| Client: <u>Omaha Public Power</u> | Project: <u>Nebraska City</u> | |
| City/State: <u>Omaha NE</u> | Project: <u>Nebraska City</u> | |
| Receipt Information: | | |
| Date/Time Received: <u>4/13/21 0930</u> | Received By: <u>AM</u> | |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers: | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>3</u> of <u>5</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record: | | |
| Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> | |
| *Temp/Blank Temperature -- If no temp/blank, or temp/blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>-1.2</u> | Corrected Temp (°C): <u>-1.1</u> | |
| Sample Container Temperature: | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted: | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments: | | |
| <u>NC2MW5A NC2MW7</u> | | |
| <u>NC2MW5</u> | | |
| <u>Dup-2</u> | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Environment Testing
TestAmerica

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client: Omaha Public Power
 City/State: Omaha NE Project: Nebraska City
 Date/Time Received: 4/13/21 0930 Received By: RM
 Delivery Type: UPS FedEx FedEx Ground US Mail Spee-Dee
 Lab Courier Lab Field Services Client Drop-off Other:
 Condition of Cooler/Container:
 Sample(s) received in Cooler? Yes No If yes: Cooler ID:
 Multiple Coolers? Yes No If yes: Cooler # 5 of 5
 Cooler Custody Seals Present? Yes No If yes: Cooler custody seals intact? Yes No
 Sample Custody Seals Present? Yes No If yes: Sample custody seals intact? Yes No
 Trip Blank Present? Yes No If yes: Which VOA samples are in cooler? 1
 *Temperature Record:
 Coolant: Wet ice Blue ice Dry ice Other: NONE
 Thermometer ID: P Correction Factor (°C): +0.1
 Temp/Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature
 Uncorrected Temp (°C): -0.1 Corrected Temp (°C): +0.0
 *Sample Container Temperature:
 Container(s) used: CONTAINER 1 CONTAINER 2
 Uncorrected Temp (°C):
 Corrected Temp (°C):
 Exceptions Noted:
 1) If temperature exceeds criteria, was sample(s) received same day of sampling? Yes No
 a) If yes: is there evidence that the chilling process began? Yes No
 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) Yes No
 NOTE: If yes, contact PM before proceeding. If no, proceed with login
 Additional Comments:
NC2MW4
NC2MW6
NC2MW8
NC1MW8

Document: CF-LG-WI-002
 Revision: 25
 Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
 Bacteria temperature criteria is 0 to 10°C

TestAmerica Cedar Falls

704 Enterprise Drive
 Cedar Falls, IA 50613
 Phone (319) 277-2401 Fax (319) 277-2425

Client Information

Sampler: Kyle K. Uhing
 Phone: (531) 226-2516
 Email: gswam.hayes@testamericainc.com
 Job Title: Senior Training Mgr.
 Company: Omaha Public Power District
 Address: 441 South 16th Street Mail BEEP1
 City: Omaha
 State: NE Zip: 68102-2247
 Project Name: Nebraska City Station Unit 2 CCR / Landfill
 TestAmerica Project #: 31007559
 Email: SS50W@ppd.com
 Address: Nebraska City Station Unit 2

Chain of Custody Record

Lab Pk: Hayes, Shawn M
 E-Mail: gswam.hayes@testamericainc.com
 TestAmerica Omaha SC 268

Due Date Requested:
 VOA Requested (date):
 PO #:
 W/O #:
 TestAmerica Project #:
 SS50W

TestAmerica

| Sample Identification | Sample Date | Sample Time | Sample Type (C-Contaminant, G-Gravimetric) | Metric (C-Concentration, G-Gravimetric) | Preservation Code: | Analysis Requested | | | | Total Number of containers | Special Instructions/Notes |
|-----------------------|-------------|-------------|--|---|--------------------|---|--------------|--------------|--------------|----------------------------|--------------------------------------|
| | | | | | | 1540C TDS, 805A Chloride, Fluoride, Sulfate | 1641 Nitrate | 1642 Nitrite | 1643 Ammonia | | |
| NC2MW2 | 4/12/21 | 15:53 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| NC2MW3 | 4/12/21 | 14:07 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| NC2MW5 | 4/12/21 | 11:56 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| NC2MW8 | 4/12/21 | 13:18 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| NC2MW7 | 4/12/21 | 14:24 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| NC2MW8 | 4/12/21 | 15:15 | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |
| DUPA | 4/12/21 | | G | W | | X | X | X | X | 4 | CCR Appendix III and IV Constituents |

Sample Disposal (A few may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Month(s)
 Special Instructions/OC Requirements:
 Received by: Shawn M Hayes Date Rec'd: 4-13-2021 1440
 Received by: Shawn M Hayes Date Rec'd: 4-13-2021 1700
 Received by: Shawn M Hayes Date Rec'd: 4/13/21 0930
 Received by: Shawn M Hayes Date Rec'd: 4/13/21 0930
 Empty Kit Requiring by: _____
 Requiring by: _____
 Requiring by: _____
 Requiring by: _____
 Custody Seal No.: _____
 Custody Seal Intact: Yes No

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204265-1
SDG Number:

Login Number: 204265

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204265-2
Client Project/Site: Nebraska City Unit 2 CCR/Landfill

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
5/14/2021 9:56:24 AM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?

? Ask
The
Expert

Visit us at:
www.eurofinsus.com/Env

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

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

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Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Job ID: 310-204265-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-204265-2

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -1.1° C, -0.8° C and 0.0° C.

RAD

Method PrecSep_0: Radium 228 Prep Batch 160-505918:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW7 (310-204265-5) and DUP2 (310-204265-7). This is an indicator of matrix interference.

Method PrecSep_0: Radium 228 Prep Batch 160-506128:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW2 (310-204265-1), NC2MW3 (310-204265-2), NC2MW5 (310-204265-3) and NC2MW6 (310-204265-4). This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-505914:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW7 (310-204265-5) and DUP2 (310-204265-7). This is an indicator of matrix interference

Method PrecSep-21: Radium 226 Prep Batch 160-506127:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW2 (310-204265-1), NC2MW3 (310-204265-2), NC2MW5 (310-204265-3) and NC2MW6 (310-204265-4). This is an indicator of matrix interference.

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

Sample Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204265-1 | NC2MW2 | Water | 04/12/21 15:53 | 04/14/21 09:30 | |
| 310-204265-2 | NC2MW3 | Water | 04/12/21 14:07 | 04/14/21 09:30 | |
| 310-204265-3 | NC2MW5 | Water | 04/12/21 11:56 | 04/14/21 09:30 | |
| 310-204265-4 | NC2MW6 | Water | 04/12/21 13:18 | 04/14/21 09:30 | |
| 310-204265-5 | NC2MW7 | Water | 04/12/21 18:24 | 04/14/21 09:30 | |
| 310-204265-6 | NC2MW8 | Water | 04/12/21 15:15 | 04/14/21 09:30 | |
| 310-204265-7 | DUP2 | Water | 04/12/21 00:00 | 04/14/21 09:30 | |

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW2

Lab Sample ID: 310-204265-1

Date Collected: 04/12/21 15:53

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.250 | | 0.113 | 0.115 | 1.00 | 0.119 | pCi/L | 04/19/21 13:32 | 05/11/21 07:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 75.2 | | 40 - 110 | | | | | 04/19/21 13:32 | 05/11/21 07:35 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.757 | | 0.335 | 0.342 | 1.00 | 0.481 | pCi/L | 04/19/21 14:01 | 05/05/21 12:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 75.2 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:19 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.01 | | 0.354 | 0.361 | 5.00 | 0.481 | pCi/L | | 05/13/21 11:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW3

Lab Sample ID: 310-204265-2

Date Collected: 04/12/21 14:07

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0889 | U | 0.0808 | 0.0812 | 1.00 | 0.120 | pCi/L | 04/19/21 13:32 | 05/11/21 07:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 74.2 | | 40 - 110 | | | | | 04/19/21 13:32 | 05/11/21 07:35 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.0989 | U | 0.241 | 0.241 | 1.00 | 0.418 | pCi/L | 04/19/21 14:01 | 05/05/21 12:19 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 74.2 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:19 | 1 |
| Y Carrier | 86.4 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.188 | U | 0.254 | 0.254 | 5.00 | 0.418 | pCi/L | | 05/13/21 11:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW5

Lab Sample ID: 310-204265-3

Date Collected: 04/12/21 11:56

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0870 | U | 0.0902 | 0.0905 | 1.00 | 0.142 | pCi/L | 04/19/21 13:32 | 05/11/21 07:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.0 | | 40 - 110 | | | | | 04/19/21 13:32 | 05/11/21 07:35 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | -0.0992 | U | 0.240 | 0.240 | 1.00 | 0.457 | pCi/L | 04/19/21 14:01 | 05/05/21 12:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.0 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:20 | 1 |
| Y Carrier | 85.2 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:20 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | -0.0122 | U | 0.256 | 0.256 | 5.00 | 0.457 | pCi/L | | 05/13/21 11:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW6

Lab Sample ID: 310-204265-4

Date Collected: 04/12/21 13:18

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.125 | U | 0.103 | 0.103 | 1.00 | 0.154 | pCi/L | 04/19/21 13:32 | 05/11/21 07:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.5 | | 40 - 110 | | | | | 04/19/21 13:32 | 05/11/21 07:35 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.311 | U | 0.257 | 0.258 | 1.00 | 0.407 | pCi/L | 04/19/21 14:01 | 05/05/21 12:20 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 81.5 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:20 | 1 |
| Y Carrier | 84.5 | | 40 - 110 | | | | | 04/19/21 14:01 | 05/05/21 12:20 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.436 | | 0.277 | 0.278 | 5.00 | 0.407 | pCi/L | | 05/13/21 11:32 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW7

Lab Sample ID: 310-204265-5

Date Collected: 04/12/21 18:24

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.284 | | 0.131 | 0.134 | 1.00 | 0.155 | pCi/L | 04/16/21 15:06 | 05/11/21 06:41 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 68.8 | | 40 - 110 | | | | | 04/16/21 15:06 | 05/11/21 06:41 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.768 | | 0.370 | 0.376 | 1.00 | 0.538 | pCi/L | 04/16/21 16:20 | 05/04/21 17:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 68.8 | | 40 - 110 | | | | | 04/16/21 16:20 | 05/04/21 17:18 | 1 |
| Y Carrier | 84.9 | | 40 - 110 | | | | | 04/16/21 16:20 | 05/04/21 17:18 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.05 | | 0.393 | 0.399 | 5.00 | 0.538 | pCi/L | | 05/11/21 16:31 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW8

Lab Sample ID: 310-204265-6

Date Collected: 04/12/21 15:15

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.251 | | 0.112 | 0.114 | 1.00 | 0.125 | pCi/L | 04/16/21 15:06 | 05/11/21 06:42 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 75.8 | | 40 - 110 | 04/16/21 15:06 | 05/11/21 06:42 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.365 | U | 0.279 | 0.281 | 1.00 | 0.436 | pCi/L | 04/16/21 16:20 | 05/04/21 17:19 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 75.8 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:19 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.615 | | 0.301 | 0.303 | 5.00 | 0.436 | pCi/L | | 05/11/21 16:31 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: DUP2

Lab Sample ID: 310-204265-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.371 | | 0.179 | 0.183 | 1.00 | 0.210 | pCi/L | 04/16/21 15:06 | 05/11/21 06:42 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 59.4 | | 40 - 110 | 04/16/21 15:06 | 05/11/21 06:42 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.04 | | 0.542 | 0.550 | 1.00 | 0.798 | pCi/L | 04/16/21 16:20 | 05/04/21 17:19 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 59.4 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:19 | 1 |
| Y Carrier | 85.6 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:19 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.41 | | 0.571 | 0.580 | 5.00 | 0.798 | pCi/L | | 05/11/21 16:31 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Qualifiers

Rad

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

Glossary

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

QC Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-505914/24-B
 Matrix: Water
 Analysis Batch: 509146

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 505914

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | | | |
| Radium-226 | 0.04967 | U | 0.0769 | 0.0771 | 1.00 | 0.133 | pCi/L | 04/16/21 15:06 | 05/11/21 06:45 | 1 |
| Carrier | MB MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | 04/16/21 15:06 | 05/11/21 06:45 | 1 |

Lab Sample ID: LCS 160-505914/1-A
 Matrix: Water
 Analysis Batch: 509145

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 505914

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|----------------|----------------|---------------|---------------|-----------------------------|----|-----|------|------|-----------------|
| | | | | | | | | | |
| Carrier | LCS LCS | | Limits | | | | | | |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | | |

Lab Sample ID: MB 160-506127/25-A
 Matrix: Water
 Analysis Batch: 509250

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 506127

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|--------------|-----------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | | | |
| Radium-226 | 0.008272 | U | 0.0542 | 0.0543 | 1.00 | 0.112 | pCi/L | 04/19/21 13:32 | 05/11/21 10:39 | 1 |
| Carrier | MB MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | 04/19/21 13:32 | 05/11/21 10:39 | 1 |

Lab Sample ID: LCS 160-506127/1-A
 Matrix: Water
 Analysis Batch: 509250

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 506127

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|----------------|----------------|---------------|---------------|-----------------------------|----|-----|------|------|-----------------|
| | | | | | | | | | |
| Carrier | LCS LCS | | Limits | | | | | | |
| Ba Carrier | %Yield | Qualifier | 40 - 110 | | | | | | |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-505918/24-A
 Matrix: Water
 Analysis Batch: 508256

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 505918

| Analyte | MB MB | | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| Radium-228 | 0.4159 | U | 0.321 | 0.323 | 1.00 | 0.504 | pCi/L | 04/16/21 16:20 | 05/04/21 17:31 | 1 |

QC Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

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

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 68.8 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:31 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | 04/16/21 16:20 | 05/04/21 17:31 | 1 |

Lab Sample ID: LCS 160-505918/1-A
 Matrix: Water
 Analysis Batch: 508252

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 505918

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 7.24 | 7.837 | | 0.999 | 1.00 | 0.463 | pCi/L | 108 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|------------|---------------|----------|
| Ba Carrier | 78.8 | | 40 - 110 |
| Y Carrier | 86.0 | | 40 - 110 |

Lab Sample ID: MB 160-506128/25-A
 Matrix: Water
 Analysis Batch: 508446

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 506128

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.3693 | U | 0.276 | 0.278 | 1.00 | 0.432 | pCi/L | 04/19/21 14:01 | 05/05/21 12:28 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|----------|----------------|----------------|---------|
| Ba Carrier | 77.6 | | 40 - 110 | 04/19/21 14:01 | 05/05/21 12:28 | 1 |
| Y Carrier | 88.2 | | 40 - 110 | 04/19/21 14:01 | 05/05/21 12:28 | 1 |

Lab Sample ID: LCS 160-506128/1-A
 Matrix: Water
 Analysis Batch: 508483

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 506128

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 7.23 | 7.407 | | 0.942 | 1.00 | 0.360 | pCi/L | 102 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|------------|---------------|----------|
| Ba Carrier | 77.6 | | 40 - 110 |
| Y Carrier | 85.2 | | 40 - 110 |

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Rad

Prep Batch: 505914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 310-204265-5 | NC2MW7 | Total/NA | Water | PrecSep-21 | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | PrecSep-21 | |
| 310-204265-7 | DUP2 | Total/NA | Water | PrecSep-21 | |
| MB 160-505914/24-B | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-505914/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 505918

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 310-204265-5 | NC2MW7 | Total/NA | Water | PrecSep_0 | |
| 310-204265-6 | NC2MW8 | Total/NA | Water | PrecSep_0 | |
| 310-204265-7 | DUP2 | Total/NA | Water | PrecSep_0 | |
| MB 160-505918/24-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-505918/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Prep Batch: 506127

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | PrecSep-21 | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | PrecSep-21 | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | PrecSep-21 | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | PrecSep-21 | |
| MB 160-506127/25-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-506127/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 506128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 310-204265-1 | NC2MW2 | Total/NA | Water | PrecSep_0 | |
| 310-204265-2 | NC2MW3 | Total/NA | Water | PrecSep_0 | |
| 310-204265-3 | NC2MW5 | Total/NA | Water | PrecSep_0 | |
| 310-204265-4 | NC2MW6 | Total/NA | Water | PrecSep_0 | |
| MB 160-506128/25-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-506128/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW2

Lab Sample ID: 310-204265-1

Date Collected: 04/12/21 15:53

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506127 | 04/19/21 13:32 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509250 | 05/11/21 07:35 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506128 | 04/19/21 14:01 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508483 | 05/05/21 12:19 | CMM | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509476 | 05/13/21 11:32 | SCB | TAL SL |

Client Sample ID: NC2MW3

Lab Sample ID: 310-204265-2

Date Collected: 04/12/21 14:07

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506127 | 04/19/21 13:32 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509250 | 05/11/21 07:35 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506128 | 04/19/21 14:01 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508483 | 05/05/21 12:19 | CMM | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509476 | 05/13/21 11:32 | SCB | TAL SL |

Client Sample ID: NC2MW5

Lab Sample ID: 310-204265-3

Date Collected: 04/12/21 11:56

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506127 | 04/19/21 13:32 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509250 | 05/11/21 07:35 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506128 | 04/19/21 14:01 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508483 | 05/05/21 12:20 | CMM | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509476 | 05/13/21 11:32 | SCB | TAL SL |

Client Sample ID: NC2MW6

Lab Sample ID: 310-204265-4

Date Collected: 04/12/21 13:18

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506127 | 04/19/21 13:32 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509250 | 05/11/21 07:35 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506128 | 04/19/21 14:01 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508483 | 05/05/21 12:20 | CMM | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509476 | 05/13/21 11:32 | SCB | TAL SL |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Client Sample ID: NC2MW7

Lab Sample ID: 310-204265-5

Date Collected: 04/12/21 18:24

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 505914 | 04/16/21 15:06 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509145 | 05/11/21 06:41 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 505918 | 04/16/21 16:20 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508252 | 05/04/21 17:18 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509266 | 05/11/21 16:31 | GRW | TAL SL |

Client Sample ID: NC2MW8

Lab Sample ID: 310-204265-6

Date Collected: 04/12/21 15:15

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 505914 | 04/16/21 15:06 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509145 | 05/11/21 06:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 505918 | 04/16/21 16:20 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508252 | 05/04/21 17:19 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509266 | 05/11/21 16:31 | GRW | TAL SL |

Client Sample ID: DUP2

Lab Sample ID: 310-204265-7

Date Collected: 04/12/21 00:00

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 505914 | 04/16/21 15:06 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509145 | 05/11/21 06:42 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 505918 | 04/16/21 16:20 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508252 | 05/04/21 17:19 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509266 | 05/11/21 16:31 | GRW | TAL SL |

Laboratory References:

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

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Laboratory: Eurofins TestAmerica, St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-21 |
| California | State | 2886 | 06-30-21 |
| Connecticut | State | PH-0241 | 03-31-21 * |
| Florida | NELAP | E87689 | 06-30-21 |
| HI - RadChem Recognition | State | n/a | 06-30-21 |
| Illinois | NELAP | 004553 | 11-30-21 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-21 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-21 |
| MI - RadChem Recognition | State | 9005 | 06-30-21 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-21 |
| New Jersey | NELAP | MO002 | 06-30-21 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-21 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-21 |
| Oregon | NELAP | 4157 | 09-01-21 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-21 |
| Texas | NELAP | T104704193 | 07-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542019-11 | 07-31-21 |
| Virginia | NELAP | 10310 | 06-14-21 |
| Washington | State | C592 | 08-30-21 |
| West Virginia DEP | State | 381 | 10-31-21 |

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

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

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

Protocol References:

None = None
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
 TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Environment Testing
TestAmerica



310-204265 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|--|
| Client Information: | | |
| Client: <u>Omaha Public Power</u> | Project: <u>Nebraska City</u> | |
| City/State: <u>Omaha</u> <u>NE</u> | Project: <u>Nebraska City</u> | |
| Receipt Information: | | |
| Date/Time Received: <u>4/13/21</u> <u>0930</u> | Received By: <u>AM</u> | |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers: | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>1</u> of <u>5</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record: | | |
| Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> | |
| *Temp/Blank Temperature -- If no temp/blank, or temp/blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>-0.9</u> | Corrected Temp (°C): <u>-0.8</u> | |
| Sample Container Temperature: | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted: | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments: | | |
| <u>NC1MW2</u> <u>NC1MW1</u> | | |
| <u>NC2MW2</u> <u>MW11</u> | | |
| <u>NC2MW3</u> | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Environment Testing
TestAmerica

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|--|
| Client Information: | | |
| Client: <u>Omaha Public Power</u> | Project: <u>Nebraska City</u> | |
| City/State: <u>Omaha</u> <u>NE</u> | Project: <u>Nebraska City</u> | |
| Receipt Information: | | |
| Date/Time Received: <u>4/13/21</u> <u>0930</u> | Received By: <u>AM</u> | |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers: | | |
| Sample(s) received in Cooler? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: |
| Multiple Coolers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>3</u> of <u>5</u> |
| Cooler Custody Seals Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? ↓ |
| Temperature Record: | | |
| Coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> | |
| *Temp/Blank Temperature -- If no temp/blank, or temp/blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): <u>-1.2</u> | Corrected Temp (°C): <u>-1.1</u> | |
| Sample Container Temperature: | | |
| Container(s) used: | CONTAINER 1 | CONTAINER 2 |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted: | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments: | | |
| <u>NC2MW5A</u> <u>NC2MW7</u> | | |
| <u>NC2MWS</u> | | |
| <u>Dup-2</u> | | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Environment Testing
TestAmerica

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client: Omaha Public Power
 City/State: Omaha NE Project: Nebraska City
 Date/Time Received: 4/13/21 0930 Received By: RM
 Delivery Type: UPS FedEx FedEx Ground US Mail Spee-Dee
 Lab Courier Lab Field Services Client Drop-off Other:
 Condition of Cooler/Container:
 Sample(s) received in Cooler? Yes No If yes: Cooler ID:
 Multiple Coolers? Yes No If yes: Cooler # 5 of 5
 Cooler Custody Seals Present? Yes No If yes: Cooler custody seals intact? Yes No
 Sample Custody Seals Present? Yes No If yes: Sample custody seals intact? Yes No
 Trip Blank Present? Yes No If yes: Which VOA samples are in cooler? 1
 *Temperature Record:
 Coolant: Wet ice Blue ice Dry ice Other: NONE
 Thermometer ID: P Correction Factor (°C): +0.1
 *Temp/Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature
 Uncorrected Temp (°C): -0.1 Corrected Temp (°C): +0.0
 *Sample Container Temperature
 Container(s) used: CONTAINER 1 CONTAINER 2
 Uncorrected Temp (°C):
 Corrected Temp (°C):
 Exceptions Noted:
 1) If temperature exceeds criteria, was sample(s) received same day of sampling? Yes No
 a) If yes: is there evidence that the chilling process began? Yes No
 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) Yes No
 NOTE: If yes, contact PM before proceeding. If no, proceed with login
 Additional Comments:
NC2MW4
NC2MW6
NC2MW8
NC1MW8

Document: CF-LG-WI-002
 Revision: 25
 Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
 Bacteria temperature criteria is 0 to 10°C

TestAmerica Cedar Falls

704 Enterprise Drive
 Cedar Falls, IA 50613
 Phone (319) 277-2401 Fax (319) 277-2425

Client Information

Sampler: Kyle K. Uhing
 Phone: (531) 226-2516
 E-Mail: gswam.hayes@testamericainc.com

Company:

Omaha Public Power District
 Address: 441 South 16th Street Mail BEEP1
 City: Omaha
 State: NE Zip: 68102-2247
 Phone: (531) 226-2515
 Email: kuhling@oppd.com
 Project Name: Nebraska City Station Unit 2 CCR / Landfill
 TestAmerica Project #: 31007559
 SSO#: SS50W8
 Nebraska City Station Unit 2

TestAmerica Omaha SC
 268

Chain of Custody Record

Lab Pk: Hayes, Shawn M
 E-Mail: gswam.hayes@testamericainc.com
 Center Tracking No(s):
 Job #: 31007559
 Page #:
 Preservation Codes:
 M - None
 N - None
 O - AMMO
 C - Zn-Acetic
 D - Nitric Acid
 E - Nitric Acid
 F - Nitric Acid
 G - Ammonia
 H - Hydrochloric Acid
 I - Hydrochloric Acid
 J - Di Water
 K - EDTA
 L - EDTA
 U - Acetone
 V - MCAA
 W - pH 4.5
 X - Other (Specify)
 Other:
 Special Instructions/Notes:
 GCR Appendix III and IV Constituents
 Total Number of containers: 4
 Analysis Requested:
 1540C TDS, 805A Chloride, Fluoride, Sulfate
 Total 8028A CCR Appendix III and IV, 870A Mercury
 919 R429, 929 R429, Combined R429 and R429
 Perform Mercury (Yes or No)
 Field Filtered Sample (Yes or No)
 Sample Identification: NC2MW2
 Sample Date: 4/12/21 Sample Time: 15:53 Matrix (Concentration, Element, Compound): W
NC2MW3 4/12/21 14:07 G W
NC2MW5 4/12/21 11:56 G W
NC2MW8 4/12/21 13:18 G W
NC2MW7 4/12/21 16:24 G W
NC2MW8 4/12/21 15:15 G W
DUPA
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Polym B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Requiring by: 4/13/2021 1440
 Requiring by: 4/13/2021 1700
 Requiring by: 4/13/2021 1440
 Requiring by: 4/13/2021 1440
 Date: 4/13/2021 1440
 Method of Release:
 Sample Disposal (A few may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal By Lab Archive For _____ Month
 Special Instructions/OC Requirements:
 Custom Seal No.: 471121 0930
 Custody Seal Intact: Yes No

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204265-2
SDG Number:

Login Number: 204265
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204265-2
SDG Number:

Login Number: 204265
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/15/21 01:00 PM

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

Tracer/Carrier Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 2 CCR/Landfill

Job ID: 310-204265-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | | Percent Yield (Acceptance Limits) | |
|--------------------|--------------------|----------------|-----------------------------------|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | | |
| 310-204265-1 | NC2MW2 | 75.2 | | |
| 310-204265-2 | NC2MW3 | 74.2 | | |
| 310-204265-3 | NC2MW5 | 70.0 | | |
| 310-204265-4 | NC2MW6 | 81.5 | | |
| 310-204265-5 | NC2MW7 | 68.8 | | |
| 310-204265-6 | NC2MW8 | 75.8 | | |
| 310-204265-7 | DUP2 | 59.4 | | |
| LCS 160-505914/1-A | Lab Control Sample | 78.8 | | |
| LCS 160-506127/1-A | Lab Control Sample | 77.6 | | |
| MB 160-505914/24-B | Method Blank | 68.8 | | |
| MB 160-506127/25-A | Method Blank | 77.6 | | |

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| | | | Percent Yield (Acceptance Limits) | | |
|--------------------|--------------------|----------------|-----------------------------------|--|--|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) | | |
| 310-204265-1 | NC2MW2 | 75.2 | 86.0 | | |
| 310-204265-2 | NC2MW3 | 74.2 | 86.4 | | |
| 310-204265-3 | NC2MW5 | 70.0 | 85.2 | | |
| 310-204265-4 | NC2MW6 | 81.5 | 84.5 | | |
| 310-204265-5 | NC2MW7 | 68.8 | 84.9 | | |
| 310-204265-6 | NC2MW8 | 75.8 | 86.0 | | |
| 310-204265-7 | DUP2 | 59.4 | 85.6 | | |
| LCS 160-505918/1-A | Lab Control Sample | 78.8 | 86.0 | | |
| LCS 160-506128/1-A | Lab Control Sample | 77.6 | 85.2 | | |
| MB 160-505918/24-A | Method Blank | 68.8 | 86.0 | | |
| MB 160-506128/25-A | Method Blank | 77.6 | 88.2 | | |

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier



Environment Testing
 America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
 3019 Venture Way
 Cedar Falls, IA 50613
 Tel: (319)277-2401

Laboratory Job ID: 310-204259-1
 Client Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

For:
 Omaha Public Power District
 Attn: Accounts Payable, 4E/EP-5
 444 South 16th Street Mall
 Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
 4/27/2021 9:56:40 AM

Shawn Hayes, Senior Project Manager
 (319)229-8211
 Shawn.Hayes@Eurofinset.com



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

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

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Case Narrative

Job ID: 310-204259-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

Job Narrative
310-204259-1

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 0.7° C.

HPLC/IC

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

Metals

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

General Chemistry

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



Sample Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204259-1 | NC2MW4 | Water | 04/12/21 10:08 | 04/14/21 09:30 | |
| 310-204259-2 | MW13 | Water | 04/12/21 09:24 | 04/14/21 09:30 | |

Detection Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Client Sample ID: NC2MW4 Lab Sample ID: 310-204259-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 4.93 | J | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.311 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 61.6 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.00113 | J | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.268 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.0838 | J | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Cadmium | 0.0000580 | J | 0.000100 | 0.0000510 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 103 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000256 | J | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lead | 0.000833 | | 0.000500 | 0.000210 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0230 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.0112 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.0111 | | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 448 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

Client Sample ID: MW13 Lab Sample ID: 310-204259-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 5.50 | | 5.00 | 2.15 | mg/L | 5 | | | 9056A | Total/NA |
| Fluoride | 0.441 | J | 0.500 | 0.275 | mg/L | 5 | | | 9056A | Total/NA |
| Sulfate | 101 | | 5.00 | 2.45 | mg/L | 5 | | | 9056A | Total/NA |
| Arsenic | 0.00487 | | 0.00200 | 0.000750 | mg/L | 1 | | | 6020A | Total/NA |
| Barium | 0.0815 | | 0.00200 | 0.000300 | mg/L | 1 | | | 6020A | Total/NA |
| Boron | 0.0653 | J | 0.100 | 0.0580 | mg/L | 1 | | | 6020A | Total/NA |
| Calcium | 66.9 | | 0.500 | 0.190 | mg/L | 1 | | | 6020A | Total/NA |
| Cobalt | 0.000990 | | 0.000500 | 0.0000910 | mg/L | 1 | | | 6020A | Total/NA |
| Lead | 0.000353 | J | 0.000500 | 0.000210 | mg/L | 1 | | | 6020A | Total/NA |
| Lithium | 0.0199 | | 0.0100 | 0.00250 | mg/L | 1 | | | 6020A | Total/NA |
| Molybdenum | 0.00443 | | 0.00200 | 0.00130 | mg/L | 1 | | | 6020A | Total/NA |
| Selenium | 0.00194 | J | 0.00500 | 0.000960 | mg/L | 1 | | | 6020A | Total/NA |
| Total Dissolved Solids | 350 | | 30.0 | 26.0 | mg/L | 1 | | | SM 2540C | Total/NA |

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Client Sample ID: NC2MW4

Lab Sample ID: 310-204259-1

Date Collected: 04/12/21 10:08

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 4.93 | J | 5.00 | 2.15 | mg/L | | | 04/19/21 21:43 | 5 |
| Fluoride | 0.311 | J | 0.500 | 0.275 | mg/L | | | 04/19/21 21:43 | 5 |
| Sulfate | 61.6 | | 5.00 | 2.45 | mg/L | | | 04/19/21 21:43 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Arsenic | 0.00113 | J | 0.00200 | 0.000750 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Barium | 0.268 | | 0.00200 | 0.000300 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Boron | 0.0838 | J | 0.100 | 0.0580 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Cadmium | 0.0000580 | J | 0.000100 | 0.0000510 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Calcium | 103 | | 0.500 | 0.190 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Cobalt | 0.000256 | J | 0.000500 | 0.0000910 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Lead | 0.000833 | | 0.000500 | 0.000210 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Lithium | 0.0230 | | 0.0100 | 0.00250 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Molybdenum | 0.0112 | | 0.00200 | 0.00130 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Selenium | 0.0111 | | 0.00500 | 0.000960 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/16/21 08:45 | 04/20/21 21:11 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:04 | 04/21/21 12:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 448 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Client Sample ID: MW13

Lab Sample ID: 310-204259-2

Date Collected: 04/12/21 09:24

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 5.50 | | 5.00 | 2.15 | mg/L | | | 04/19/21 21:59 | 5 |
| Fluoride | 0.441 | J | 0.500 | 0.275 | mg/L | | | 04/19/21 21:59 | 5 |
| Sulfate | 101 | | 5.00 | 2.45 | mg/L | | | 04/19/21 21:59 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Arsenic | 0.00487 | | 0.00200 | 0.000750 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Barium | 0.0815 | | 0.00200 | 0.000300 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Boron | 0.0653 | J | 0.100 | 0.0580 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Calcium | 66.9 | | 0.500 | 0.190 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Cobalt | 0.000990 | | 0.000500 | 0.0000910 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Lead | 0.000353 | J | 0.000500 | 0.000210 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Lithium | 0.0199 | | 0.0100 | 0.00250 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Molybdenum | 0.00443 | | 0.00200 | 0.00130 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Selenium | 0.00194 | J | 0.00500 | 0.000960 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 04/16/21 08:45 | 04/20/21 21:14 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:04 | 04/21/21 12:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 350 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Eurofins TestAmerica, Cedar Falls

Definitions/Glossary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

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

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-313953/3
 Matrix: Water
 Analysis Batch: 313953

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chloride | <0.430 | | 1.00 | 0.430 | mg/L | | | 04/19/21 18:36 | 1 |
| Fluoride | <0.0550 | | 0.100 | 0.0550 | mg/L | | | 04/19/21 18:36 | 1 |
| Sulfate | <0.490 | | 1.00 | 0.490 | mg/L | | | 04/19/21 18:36 | 1 |

Lab Sample ID: LCS 310-313953/4
 Matrix: Water
 Analysis Batch: 313953

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

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec Limits |
|----------|-------------|---------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Chloride | 10.0 | 9.751 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 2.00 | 2.180 | | mg/L | | 109 | 90 - 110 |
| Sulfate | 10.0 | 10.47 | | mg/L | | 105 | 90 - 110 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-312812/1-A
 Matrix: Water
 Analysis Batch: 313453

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 312812

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Barium | 0.0006360 | J | 0.00200 | 0.000300 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Boron | <0.0580 | | 0.100 | 0.0580 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Calcium | <0.190 | | 0.500 | 0.190 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Cobalt | <0.0000910 | | 0.000500 | 0.0000910 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Lithium | <0.00250 | | 0.0100 | 0.00250 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Molybdenum | <0.00130 | | 0.00200 | 0.00130 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 04/16/21 08:45 | 04/20/21 20:02 | 1 |

Lab Sample ID: MB 310-312812/1-A
 Matrix: Water
 Analysis Batch: 313497

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 312812

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Thallium | 0.0006770 | J | 0.00100 | 0.000260 | mg/L | | 04/16/21 08:45 | 04/21/21 14:27 | 1 |

Lab Sample ID: LCS 310-312812/2-A
 Matrix: Water
 Analysis Batch: 313453

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 312812

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|---------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| Antimony | 0.200 | 0.1946 | | mg/L | | 97 | 80 - 120 |
| Arsenic | 0.200 | 0.1978 | | mg/L | | 99 | 80 - 120 |
| Barium | 0.100 | 0.1049 | | mg/L | | 105 | 80 - 120 |
| Beryllium | 0.100 | 0.08988 | | mg/L | | 90 | 80 - 120 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

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

Lab Sample ID: LCS 310-312812/2-A
Matrix: Water
Analysis Batch: 313453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312812

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Boron | 0.200 | 0.2067 | | mg/L | | 103 | 80 - 120 |
| Cadmium | 0.100 | 0.09903 | | mg/L | | 99 | 80 - 120 |
| Calcium | 2.00 | 1.659 | | mg/L | | 83 | 80 - 120 |
| Chromium | 0.100 | 0.09726 | | mg/L | | 97 | 80 - 120 |
| Cobalt | 0.100 | 0.09749 | | mg/L | | 97 | 80 - 120 |
| Lead | 0.200 | 0.1937 | | mg/L | | 97 | 80 - 120 |
| Lithium | 0.200 | 0.1753 | | mg/L | | 88 | 80 - 120 |
| Molybdenum | 0.200 | 0.1925 | | mg/L | | 96 | 80 - 120 |
| Selenium | 0.400 | 0.3976 | | mg/L | | 99 | 80 - 120 |

Lab Sample ID: LCS 310-312812/2-A
Matrix: Water
Analysis Batch: 313497

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312812

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Thallium | 0.200 | 0.2039 | | mg/L | | 102 | 80 - 120 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-313366/1-A
Matrix: Water
Analysis Batch: 313498

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 313366

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 04/20/21 14:04 | 04/21/21 11:50 | 1 |

Lab Sample ID: LCS 310-313366/2-A
Matrix: Water
Analysis Batch: 313498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 313366

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Mercury | 0.00167 | 0.001752 | | mg/L | | 105 | 80 - 120 |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-312885/1
Matrix: Water
Analysis Batch: 312885

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <26.0 | | 30.0 | 26.0 | mg/L | | | 04/15/21 13:32 | 1 |

Lab Sample ID: LCS 310-312885/2
Matrix: Water
Analysis Batch: 312885

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Total Dissolved Solids | 1000 | 974.0 | | mg/L | | 97 | 90 - 110 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

HPLC/IC

Analysis Batch: 313953

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | 9056A | |
| 310-204259-2 | MW13 | Total/NA | Water | 9056A | |
| MB 310-313953/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-313953/4 | Lab Control Sample | Total/NA | Water | 9056A | |

Metals

Prep Batch: 312812

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | 3010A | |
| 310-204259-2 | MW13 | Total/NA | Water | 3010A | |
| MB 310-312812/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-312812/2-A | Lab Control Sample | Total/NA | Water | 3010A | |

Prep Batch: 313366

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | 7470A | |
| 310-204259-2 | MW13 | Total/NA | Water | 7470A | |
| MB 310-313366/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-313366/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 313453

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | 6020A | 312812 |
| 310-204259-2 | MW13 | Total/NA | Water | 6020A | 312812 |
| MB 310-312812/1-A | Method Blank | Total/NA | Water | 6020A | 312812 |
| LCS 310-312812/2-A | Lab Control Sample | Total/NA | Water | 6020A | 312812 |

Analysis Batch: 313497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| MB 310-312812/1-A | Method Blank | Total/NA | Water | 6020A | 312812 |
| LCS 310-312812/2-A | Lab Control Sample | Total/NA | Water | 6020A | 312812 |

Analysis Batch: 313498

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | 7470A | 313366 |
| 310-204259-2 | MW13 | Total/NA | Water | 7470A | 313366 |
| MB 310-313366/1-A | Method Blank | Total/NA | Water | 7470A | 313366 |
| LCS 310-313366/2-A | Lab Control Sample | Total/NA | Water | 7470A | 313366 |

General Chemistry

Analysis Batch: 312885

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | SM 2540C | |
| 310-204259-2 | MW13 | Total/NA | Water | SM 2540C | |
| MB 310-312885/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-312885/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Client Sample ID: NC2MW4

Date Collected: 04/12/21 10:08

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204259-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313953 | 04/19/21 21:43 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312812 | 04/16/21 08:45 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313453 | 04/20/21 21:11 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313366 | 04/20/21 14:04 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313498 | 04/21/21 12:41 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Client Sample ID: MW13

Date Collected: 04/12/21 09:24

Date Received: 04/14/21 09:30

Lab Sample ID: 310-204259-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 313953 | 04/19/21 21:59 | SAD | TAL CF |
| Total/NA | Prep | 3010A | | | 312812 | 04/16/21 08:45 | CJT | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 313453 | 04/20/21 21:14 | SAD | TAL CF |
| Total/NA | Prep | 7470A | | | 313366 | 04/20/21 14:04 | HED | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 313498 | 04/21/21 12:43 | HED | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 312885 | 04/15/21 13:32 | SAS | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

Laboratory: Eurofins TestAmerica, Cedar Falls

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|--------------------------------|-----------------------|-----------------|
| Colorado | Petroleum Storage Tank Program | IA100001 (OR) | 09-29-21 |
| Georgia | State | IA100001 (OR) | 09-29-21 |
| Illinois | NELAP | 200024 | 11-29-21 |
| Iowa | State | 007 | 12-01-21 |
| Kansas | NELAP | E-10341 | 01-31-22 |
| Minnesota | NELAP | 019-999-319 | 12-31-21 |
| Minnesota (Petrofund) | State | 3349 | 08-22-21 |
| North Dakota | State | R-186 | 09-29-21 |
| Oregon | NELAP | IA100001 | 09-29-21 |
| USDA | US Federal Programs | P330-19-00003 | 01-02-22 |

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-1

| Method | Method Description | Protocol | Laboratory |
|----------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

- 1
- 2
- 3
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- 5
- 6
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- 8
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- 10
- 11
- 12
- 13
- 14



Environment Testing
 TestAmerica

Place COC scanning label
 here

Cooler/Sample Receipt and Temperature Log Form

| | |
|---|--|
| Client Information: | |
| Client: <u>Omaha Public Power</u> | |
| City/State: <u>Omaha</u> <u>NE</u> | Project: <u>Nebraska City</u> |
| Receipt Information: | |
| Date/Time Received: <u>4/13/21</u> <u>0930</u> | Received By: <u>AM</u> |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | |
| Condition of Cooler/Containers: | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>5</u> |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? <u>1</u> |
| Temperature Record: | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> |
| *Temp. Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | |
| Uncorrected Temp (°C): <u>0.6</u> | Corrected Temp (°C): <u>0.7</u> |
| Sample Container Temperature | |
| Container(s) used: | CONTAINER 1 CONTAINER 2 |
| Uncorrected Temp (°C): | |
| Corrected Temp (°C): | |
| Exceptions Noted | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | |
| Additional Comments | |
| <u>MW13</u> <u>MW14</u> | |
| <u>Dup 1</u> | |
| <u>NC1 MW4</u> | |

Document: CF-LG-WI-002
 Revision: 25
 Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
 Bacteria temperature criteria is 0 to 10°C

Eurofins TestAmerica, Cedar Falls



Environment Testing
TestAmerica

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client: Omaha Public Power
 City/State: Omaha NE Project: Nebraska City
 Date/Time Received: 4/13/21 0930 Received By: AM
 Delivery Type: UPS FedEx FedEx Ground US Mail Spee-Dee
 Lab Courier Lab Field Services Client Drop-off Other:
 Condition of Cooler/Containers:
 Sample(s) received in Cooler? Yes No If yes: Cooler ID:
 Multiple Coolers? Yes No If yes: Cooler # 5 of 5
 Cooler Custody Seals Present? Yes No If yes: Cooler custody seals intact? Yes No
 Sample Custody Seals Present? Yes No If yes: Sample custody seals intact? Yes No
 Trip Blank Present? Yes No If yes: Which VOA samples are in cooler? ↓
 Temperature Record:
 Coolant: Wet ice Blue ice Dry ice Other: NONE
 Thermometer ID: P Correction Factor (°C): +0.1
 Temp/Blank Temperature: ~0.1 Corrected Temp (°C): +0.0
 Sample Container Temperature:
 Container(s) used: CONTAINER 1 CONTAINER 2
 Uncorrected Temp (°C):
 Corrected Temp (°C):
 Exceptions Noted:
 1) If temperature exceeds criteria, was sample(s) received same day of sampling? Yes No
 a) If yes: Is there evidence that the chilling process began? Yes No
 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised (e.g., bulging septa, broken/cracked bottles, frozen solid)? Yes No
 NOTE: If yes, contact PM before proceeding. If no, proceed with login
 Additional Comments:
NC2MW4 NC1MW8
NC2MW6
NC2MW8

Document: CF-LG-WI-002
 Revision: 25
 Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 5°C
 Bacteria temperature criteria is 0 to 10°C

TestAmerica Cedar Falls

704 Enterprise Drive
 Cedar Falls, IA 50613
 Phone (319) 277-2461 Fax (319) 277-2425

Client Information

Sample: Kyle K. Uhlig
 Phone: (531) 226-2515
 Email: shawn.hayes@testamerica.com

Company: Omaha Public Power District

Address: 444 South 16th Street Mail 9E/EP1

City: Omaha

State, Zip: NE 68102-2247

Phone: (531) 226-2515

Email: kuhlig@opd.com

Project Name: Nebraska City Station Unit 1 and 2 CCR / Landfill

Reference Project #: 31007659

SSCAN#

Nebraska City Station Unit 1 and 2

Chain of Custody Record

Lab PM: Hayes, Shawn M

E-Mail: shawn.hayes@testamerica.com

Sample: Kyle K. Uhlig

Phone: (531) 226-2515

Company: Omaha Public Power District

Address: 444 South 16th Street Mail 9E/EP1

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Nebraska City Station Unit 1 and 2

TestAmerica Omaha SC
 288

Lab PM: Hayes, Shawn M

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SSCAN#

Nebraska City Station Unit 1 and 2

TestAmerica
 1400 College Ave, Ames, IA 50010, USA

Lab PM: Hayes, Shawn M

E-Mail: shawn.hayes@testamerica.com

Sample: Kyle K. Uhlig

Phone: (531) 226-2515

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Address: 444 South 16th Street Mail 9E/EP1

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Email: kuhlig@opd.com

Project Name: Nebraska City Station Unit 1 and 2 CCR / Landfill

Reference Project #: 31007659

SSCAN#

Nebraska City Station Unit 1 and 2

| Sample Identification | Sample Type (C-Compost, G-Gravel, P-Pesticides, S-Solids) | Sample Date | Sample Time | Matrix (C-Compost, G-Gravel, P-Pesticides, S-Solids) | Preservation Code | Analysis Requested | | | | Special Instructions/Notes |
|----------------------------|---|-------------|-------------|--|-------------------|--------------------|---|---|----|--|
| | | | | | | Asst | D | N | IN | |
| NC2MW4 | G | 4/13/21 | 10:06 | W | W | X | X | X | X | 4 CCR Appendix III and IV Constituents |
| MW13 | G | 4/13/21 | 09:30 | W | W | X | X | X | X | 4 CCR Appendix III and IV Constituents |
| Total Number of containers | | | | | | 4 | 4 | 4 | 4 | 4 |

Preservation Codes:
 A - HCl
 M - Heptane
 O - Acetic Acid
 P - Nitric Acid
 R - Nitric Acid
 S - Acetic Acid
 T - TSP/Dicopolysilane
 W - DI Water
 X - EDTA
 Y - MCA
 Z - other (specify)

Special Instructions/Notes:
 4 CCR Appendix III and IV Constituents
 4 CCR Appendix III and IV Constituents

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

Time: _____ Method of Shipment: _____
 Date: _____
 Received by: HW Date/Time: 4-13-2021 1440
 Released by: HW Date/Time: _____
 Retained by: HW Date/Time: _____
 Retained by: HW Date/Time: _____
 Custody Seals Intact: Yes No

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204259-1
SDG Number:

Login Number: 204259
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-204259-2
Client Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
5/13/2021 4:04:04 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

LINKS

Review your project results through
TotalAccess

Have a Question?
Ask The Expert

Visit us at:
www.eurofinsus.com/Env

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

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

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Case Narrative

Job ID: 310-204259-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-204259-2**

Comments

No additional comments.

Receipt

The samples were received on 4/14/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.0° C and 0.7° C.

RAD

Method PrecSep_0: Radium 228 Prep batch 160-506115:

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW4 (310-204259-1) and MW13 (310-204259-2).

Method PrecSep_0: Radium 228 Prep Batch 160-506115:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW4 (310-204259-1) and MW13 (310-204259-2). This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-506114:

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW4 (310-204259-1) and MW13 (310-204259-2).

Method PrecSep-21: Radium 226 Prep Batch 160-506114:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: NC2MW4 (310-204259-1) and MW13 (310-204259-2). This is an indicator of matrix interference.

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



Sample Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 310-204259-1 | NC2MW4 | Water | 04/12/21 10:08 | 04/14/21 09:30 | |
| 310-204259-2 | MW13 | Water | 04/12/21 09:24 | 04/14/21 09:30 | |

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Client Sample ID: NC2MW4

Lab Sample ID: 310-204259-1

Date Collected: 04/12/21 10:08

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.279 | | 0.142 | 0.144 | 1.00 | 0.165 | pCi/L | 04/19/21 11:16 | 05/11/21 09:58 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.8 | | 40 - 110 | | | | | 04/19/21 11:16 | 05/11/21 09:58 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.705 | | 0.374 | 0.380 | 1.00 | 0.554 | pCi/L | 04/19/21 11:53 | 05/06/21 14:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.8 | | 40 - 110 | | | | | 04/19/21 11:53 | 05/06/21 14:24 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | | | | | 04/19/21 11:53 | 05/06/21 14:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.984 | | 0.400 | 0.406 | 5.00 | 0.554 | pCi/L | | 05/11/21 23:07 | 1 |

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Client Sample ID: MW13

Lab Sample ID: 310-204259-2

Date Collected: 04/12/21 09:24

Matrix: Water

Date Received: 04/14/21 09:30

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.00130 | U | 0.0821 | 0.0821 | 1.00 | 0.173 | pCi/L | 04/19/21 11:16 | 05/11/21 09:59 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 83.0 | | 40 - 110 | 04/19/21 11:16 | 05/11/21 09:59 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.428 | U | 0.375 | 0.377 | 1.00 | 0.600 | pCi/L | 04/19/21 11:53 | 05/06/21 14:24 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 83.0 | | 40 - 110 | 04/19/21 11:53 | 05/06/21 14:24 | 1 |
| Y Carrier | 86.0 | | 40 - 110 | 04/19/21 11:53 | 05/06/21 14:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.429 | U | 0.384 | 0.386 | 5.00 | 0.600 | pCi/L | | 05/11/21 23:07 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Qualifiers

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

Glossary

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

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-506114/23-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506114

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|------------------|-----------------|-----------------|------|-------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.5137 | | 0.153 | 0.159 | 1.00 | 0.137 | pCi/L | 04/19/21 11:16 | 05/11/21 17:27 | 1 |
| Carrier | | MB MB | Limits | | | | Prepared | | Analyzed | Dil Fac |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:16 | | 05/11/21 17:27 | 1 |
| | | 87.0 | | | | | | | | |

Lab Sample ID: LCS 160-506114/1-A
Matrix: Water
Analysis Batch: 509145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506114

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. |
|------------|-------------|------------------|----------|-----------------|------|-------|----------------|------|----------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits |
| Radium-226 | 11.3 | 11.48 | | 1.23 | 1.00 | 0.141 | pCi/L | 101 | 75 - 125 |
| Carrier | | LCS LCS | Limits | | | | Prepared | | Analyzed |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:16 | | 05/11/21 17:27 |
| | | 80.0 | | | | | | | |

Lab Sample ID: LCSD 160-506114/2-A
Matrix: Water
Analysis Batch: 509146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506114

| Analyte | Spike Added | LCSD | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. | RER | Limit |
|------------|-------------|------------------|----------|-----------------|------|-------|----------------|------|----------------|---------|-------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | RER | Limit |
| Radium-226 | 11.3 | 11.13 | | 1.20 | 1.00 | 0.137 | pCi/L | 98 | 75 - 125 | 0.14 | 1 |
| Carrier | | LCSD LCSD | Limits | | | | Prepared | | Analyzed | Dil Fac | |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:53 | | 05/06/21 14:35 | 1 | |
| | | 84.8 | | | | | | | | | |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-506115/23-A
Matrix: Water
Analysis Batch: 508608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506115

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|------------------|-----------------|-----------------|------|-------|----------------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-228 | 0.1570 | U | 0.260 | 0.261 | 1.00 | 0.439 | pCi/L | 04/19/21 11:53 | 05/06/21 14:35 | 1 |
| Carrier | | MB MB | Limits | | | | Prepared | | Analyzed | Dil Fac |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:53 | | 05/06/21 14:35 | 1 |
| | | 87.0 | | | | | | | | |
| Y Carrier | | 90.8 | | | | | | | | |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

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

Lab Sample ID: LCS 160-506115/1-A
Matrix: Water
Analysis Batch: 508606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506115

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. |
|------------|-------------|------------------|----------|-----------------|------|-------|----------------|------|----------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits |
| Radium-228 | 7.23 | 7.498 | | 0.959 | 1.00 | 0.480 | pCi/L | 104 | 75 - 125 |
| Carrier | | LCS LCS | Limits | | | | Prepared | | Analyzed |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:16 | | 05/11/21 17:27 |
| | | 80.0 | | | | | | | |
| Y Carrier | | 90.5 | | | | | | | |

Lab Sample ID: LCSD 160-506115/2-A
Matrix: Water
Analysis Batch: 508606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 506115

| Analyte | Spike Added | LCSD | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. | RER | Limit |
|------------|-------------|------------------|----------|-----------------|------|-------|----------------|------|----------------|---------|-------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | RER | Limit |
| Radium-228 | 7.23 | 7.543 | | 0.952 | 1.00 | 0.441 | pCi/L | 104 | 75 - 125 | 0.02 | 1 |
| Carrier | | LCSD LCSD | Limits | | | | Prepared | | Analyzed | Dil Fac | |
| Ba Carrier | | %Yield Qualifier | 40 - 110 | | | | 04/19/21 11:53 | | 05/06/21 14:35 | 1 | |
| | | 84.8 | | | | | | | | | |
| Y Carrier | | 88.6 | | | | | | | | | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Rad

Prep Batch: 506114

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | PrecSep-21 | |
| 310-204259-2 | MW13 | Total/NA | Water | PrecSep-21 | |
| MB 160-506114/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-506114/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-506114/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 506115

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-204259-1 | NC2MW4 | Total/NA | Water | PrecSep_0 | |
| 310-204259-2 | MW13 | Total/NA | Water | PrecSep_0 | |
| MB 160-506115/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-506115/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-506115/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Lab Chronicle

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Client Sample ID: NC2MW4

Lab Sample ID: 310-204259-1

Date Collected: 04/12/21 10:08

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506114 | 04/19/21 11:16 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509146 | 05/11/21 09:58 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506115 | 04/19/21 11:53 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508606 | 05/06/21 14:24 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509278 | 05/11/21 23:07 | SCB | TAL SL |

Client Sample ID: MW13

Lab Sample ID: 310-204259-2

Date Collected: 04/12/21 09:24

Matrix: Water

Date Received: 04/14/21 09:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 506114 | 04/19/21 11:16 | RBR | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 509146 | 05/11/21 09:59 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 506115 | 04/19/21 11:53 | RBR | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 508606 | 05/06/21 14:24 | ANW | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 509278 | 05/11/21 23:07 | SCB | TAL SL |

Laboratory References:

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

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Laboratory: Eurofins TestAmerica, St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-21 |
| California | State | 2886 | 06-30-21 |
| Connecticut | State | PH-0241 | 03-31-21 * |
| Florida | NELAP | E87689 | 06-30-21 |
| HI - RadChem Recognition | State | n/a | 06-30-21 |
| Illinois | NELAP | 004553 | 11-30-21 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-21 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-21 |
| MI - RadChem Recognition | State | 9005 | 06-30-21 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-21 |
| New Jersey | NELAP | MO002 | 06-30-21 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-21 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-21 |
| Oregon | NELAP | 4157 | 09-01-21 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-21 |
| Texas | NELAP | T104704193 | 07-31-21 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-21 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542019-11 | 07-31-21 |
| Virginia | NELAP | 10310 | 06-14-21 |
| Washington | State | C592 | 08-30-21 |
| West Virginia DEP | State | 381 | 10-31-21 |

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

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

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

Protocol References:

None = None
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
 TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | |
|---|--|
| Client Information | |
| Client: <u>Omaha Public Power</u> | |
| City/State: <u>Omaha</u> <u>NE</u> | Project: <u>Nebraska City</u> |
| Receipt Information | |
| Date/Time Received: <u>4/13/21</u> <u>0930 AM</u> | Received By: <u>AM</u> |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | |
| Condition of Cooler/Containers | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>2</u> of <u>5</u> |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? <u>1</u> |
| Temperature Record | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> |
| *Temp/Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | |
| Uncorrected Temp (°C): <u>0.6</u> | Corrected Temp (°C): <u>0.7</u> |
| Sample Container Temperature | |
| Container(s) used: | CONTAINER 1 CONTAINER 2 |
| Uncorrected Temp (°C): | |
| Corrected Temp (°C): | |
| Exceptions Noted | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | |
| Additional Comments | |
| <u>MW13</u> <u>MW14</u> | |
| <u>Dup 1</u> | |
| <u>NC1 MW4</u> | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C



Environment Testing
TestAmerica

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

| | |
|---|--|
| Client Information | |
| Client: <u>Omaha Public Power</u> | |
| City/State: <u>Omaha</u> <u>NE</u> | Project: <u>Nebraska City</u> |
| Receipt Information | |
| Date/Time Received: <u>4/13/21</u> <u>0930 AM</u> | Received By: <u>AM</u> |
| Delivery Type: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____ | |
| Condition of Cooler/Containers | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler ID: _____ |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler # <u>5</u> of <u>5</u> |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes: Which VOA samples are in cooler? <u>1</u> |
| Temperature Record | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE | |
| Thermometer ID: <u>P</u> | Correction Factor (°C): <u>+0.1</u> |
| *Temp/Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | |
| Uncorrected Temp (°C): <u>-0.1</u> | Corrected Temp (°C): <u>+0.0</u> |
| Sample Container Temperature | |
| Container(s) used: | CONTAINER 1 CONTAINER 2 |
| Uncorrected Temp (°C): | |
| Corrected Temp (°C): | |
| Exceptions Noted | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | |
| Additional Comments | |
| <u>NC2 MW4</u> <u>NC1 MW8</u> | |
| <u>NC2 MW6</u> | |
| <u>NC2 MW8</u> | |

Document: CF-LG-WI-002
Revision: 25
Date: 06/17/2019

Eurofins TestAmerica, Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| COC No. | | Lab Pk | | Sampler: | | Lab Pk | | COC No. | |
| Page: | | Hayes, Shawn M | | Kyle K. Uhlig | | Hayes, Shawn M | | Page: | |
| Job #: | | E-Mail: | | Phone: | | E-Mail: | | Job #: | |
| | | shawn.hayes@testamerica.com | | (531) 226-2515 | | shawn.hayes@testamerica.com | | | |
| <p>Client Information</p> <p>Company: Omaha Public Power District</p> <p>Address: 144 South 16th Street Mail 9E/EP1 Omaha, NE 68102-2247</p> <p>State, Zip: NE 68102-2247</p> <p>Phone: (531) 226-2515</p> <p>PO #:</p> <p>WO #:</p> <p>Shipping/Invoice CO#:</p> <p>Project Name: Nebraska City Station Unit 1 and 2 CCR / Landfill</p> <p>Reference Project #: 31007659</p> <p>SSCAN#:</p> <p>Nebraska City Station Unit 1 and 2</p> | | | | | | | | | |
| Date Requested: | | Sample Date | | Sample Time | | Sample Type | | Matrix | |
| TAT Requested (days): | | 4/13/21 10:06 | | 4/13/21 9:24 | | G | | W | |
| PO #: | | G | | G | | G | | W | |
| WO #: | | W | | W | | W | | W | |
| Analysis Requested | | Preservation Code: | | Matrix | | Sample Type | | Matrix | |
| <p>5440 TDS, 9054 Chloride, Fluoride, Sulfate</p> <p>TE61 0024 CRI Argonite III and IV, 7474 Mercury</p> <p>8119 R428, 8228 R428, Composite R428 and R428</p> <p>8119 R428, 8228 R428, Composite R428 and R428</p> <p>8119 R428, 8228 R428, Composite R428 and R428</p> | | <p>D I N</p> <p>D I N</p> <p>D I N</p> <p>D I N</p> | | <p>W</p> <p>W</p> <p>W</p> <p>W</p> | | <p>G</p> <p>G</p> <p>G</p> <p>G</p> | | <p>W</p> <p>W</p> <p>W</p> <p>W</p> | |
| Total Number of containers | | 4 | | 4 | | 4 | | 4 | |
| Special Instructions/Notes: | | CCR Appendix III and IV Constituents | | CCR Appendix III and IV Constituents | | CCR Appendix III and IV Constituents | | CCR Appendix III and IV Constituents | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> | | | | | | | | | |
| Possible Hazard Identification | | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify) | | <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | |
| Empty Kit Relinquished by: | | Date: | | Date: | | Date: | | Date: | |
| Relinquished by: <i>[Signature]</i> | | 4/13/2021 11:00 | | 4/13/2021 11:00 | | 4/13/2021 11:00 | | 4/13/2021 11:00 | |
| Relinquished by: <i>[Signature]</i> | | 4-13-2021 17:00 | | 4-13-2021 17:00 | | 4-13-2021 17:00 | | 4-13-2021 17:00 | |
| Custody Seals Intact: | | Custody Seal No.: | | Custody Seal No.: | | Custody Seal No.: | | Custody Seal No.: | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204259-2
SDG Number:

Login Number: 204259
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins TestAmerica, Cedar Falls

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-204259-2
SDG Number:

Login Number: 204259
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis
List Creation: 04/15/21 01:00 PM

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Tracer/Carrier Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Unit 1 and 2 CCR/Landfill

Job ID: 310-204259-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|---------------------|------------------------|-----------------------------------|------------|
| | | Ba (40-110) | Y (40-110) |
| 310-204259-1 | NC2MW4 | 85.8 | 86.0 |
| 310-204259-2 | MW13 | 83.0 | 86.0 |
| LCS 160-506114/1-A | Lab Control Sample | 80.0 | 90.5 |
| LCSD 160-506114/2-A | Lab Control Sample Dup | 84.8 | 88.6 |
| MB 160-506114/23-A | Method Blank | 87.0 | 90.8 |

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|---------------------|------------------------|-----------------------------------|------------|
| | | Ba (40-110) | Y (40-110) |
| 310-204259-1 | NC2MW4 | 85.8 | 86.0 |
| 310-204259-2 | MW13 | 83.0 | 86.0 |
| LCS 160-506115/1-A | Lab Control Sample | 80.0 | 90.5 |
| LCSD 160-506115/2-A | Lab Control Sample Dup | 84.8 | 88.6 |
| MB 160-506115/23-A | Method Blank | 87.0 | 90.8 |

Tracer/Carrier Legend
Ba = Ba Carrier
Y = Y Carrier

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-216815-1
Client Project/Site: Nebraska City Station Unit 2 CCR

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
10/25/2021 6:30:08 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Laboratory Job ID: 310-216815-1

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

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

Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Job ID: 310-216815-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-216815-1**

Comments

No additional comments.

Receipt

The samples were received on 10/7/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 1.0° C.

HPLC/IC

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

Metals

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

General Chemistry

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

Sample Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-216815-1 | NC2MW2 | Water | 10/04/21 17:43 | 10/07/21 09:40 |
| 310-216815-2 | NC2MW3 | Water | 10/04/21 16:24 | 10/07/21 09:40 |
| 310-216815-3 | NC2MW5 | Water | 10/04/21 12:46 | 10/07/21 09:40 |
| 310-216815-4 | NC2MW6 | Water | 10/04/21 15:38 | 10/07/21 09:40 |
| 310-216815-5 | NC2MW7 | Water | 10/04/21 18:35 | 10/07/21 09:40 |
| 310-216815-6 | NC2MW8 | Water | 10/04/21 17:00 | 10/07/21 09:40 |
| 310-216815-7 | DUP2 | Water | 10/04/21 00:00 | 10/07/21 09:40 |

Detection Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW2 **Lab Sample ID: 310-216815-1**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|-----------|------|-----|----------|---|----------|-----------|
| Chloride | 11.8 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Sulfate | 266 | | 5.00 | 2.45 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Antimony | 0.00323 | | 0.00200 | 0.00110 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Arsenic | 0.000907 | J | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.106 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 0.668 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cadmium | 0.000287 | | 0.000100 | 0.0000510 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 183 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.00224 | | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000609 | | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0247 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.0505 | | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Selenium | 0.00128 | J | 0.00500 | 0.000960 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 726 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

Client Sample ID: NC2MW3 **Lab Sample ID: 310-216815-2**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|----------|---|----------|-----------|
| Chloride | 12.6 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Fluoride | 0.492 | J | 0.500 | 0.275 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Sulfate | 292 | | 5.00 | 2.45 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.00354 | | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.0769 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 0.306 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cadmium | 0.0000820 | J | 0.000100 | 0.0000510 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 139 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.0115 | | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000485 | J | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0241 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.00356 | | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 860 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

Client Sample ID: NC2MW5 **Lab Sample ID: 310-216815-3**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|----------|---|----------|-----------|
| Chloride | 9.28 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Sulfate | 282 | | 5.00 | 2.45 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.00245 | | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.0519 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 2.86 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cadmium | 0.0000570 | J | 0.000100 | 0.0000510 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 168 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.000226 | J | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000630 | | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0120 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.0236 | | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Selenium | 0.00162 | J | 0.00500 | 0.000960 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 826 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW6 **Lab Sample ID: 310-216815-4**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|-----------|-----------|----------|-----------|------|-----|----------|---|----------|-----------|
| Chloride | 6.30 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Sulfate | 132 | | 5.00 | 2.45 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.000925 | J | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.133 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 2.48 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cadmium | 0.0000800 | J | 0.000100 | 0.0000510 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 123 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.000504 | | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000719 | | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0345 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.0124 | | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 524 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

Client Sample ID: NC2MW7 **Lab Sample ID: 310-216815-5**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|----------|------|-----|----------|---|----------|-----------|
| Chloride | 9.27 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.0427 | | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.592 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 0.190 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 118 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.000253 | J | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0566 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.00183 | J | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 430 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

Client Sample ID: NC2MW8 **Lab Sample ID: 310-216815-6**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|----------|------|-----|----------|---|----------|-----------|
| Chloride | 10.3 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Sulfate | 7.47 | | 5.00 | 2.45 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.00958 | | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.616 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 0.107 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 130 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.00229 | | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000393 | J | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lithium | 0.0340 | | 0.0100 | 0.00250 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Molybdenum | 0.00281 | | 0.00200 | 0.00130 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Total Dissolved Solids | 436 | | 50.0 | 26.0 | mg/L | 1 | SM 2540C | | Total/NA | Total/NA |

Client Sample ID: DUP2 **Lab Sample ID: 310-216815-7**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|----------|----------|-----------|----------|-----------|------|-----|-------|---|----------|-----------|
| Chloride | 9.29 | | 5.00 | 2.15 | mg/L | 5 | 9056A | | Total/NA | Total/NA |
| Arsenic | 0.0431 | | 0.00200 | 0.000750 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Barium | 0.607 | | 0.00200 | 0.000370 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Boron | 0.156 | | 0.100 | 0.0580 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cadmium | 0.000172 | | 0.000100 | 0.0000510 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Calcium | 117 | | 0.500 | 0.190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Cobalt | 0.000388 | J | 0.000500 | 0.000190 | mg/L | 1 | 6020A | | Total/NA | Total/NA |
| Lead | 0.000235 | J | 0.000500 | 0.000210 | mg/L | 1 | 6020A | | Total/NA | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Detection Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: DUP2 (Continued)

Lab Sample ID: 310-216815-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|---------|-----------|---------|---------|------|---------|---|----------|-----------|
| Lithium | 0.0575 | | 0.0100 | 0.00250 | mg/L | 1 | | 6020A | Total/NA |
| Molybdenum | 0.00198 | J | 0.00200 | 0.00130 | mg/L | 1 | | 6020A | Total/NA |
| Total Dissolved Solids | 428 | | 50.0 | 26.0 | mg/L | 1 | | SM 2540C | Total/NA |

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW2

Lab Sample ID: 310-216815-1

Date Collected: 10/04/21 17:43

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 11.6 | | 5.00 | 2.15 | mg/L | | | 10/11/21 18:48 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 18:48 | 5 |
| Sulfate | 266 | | 5.00 | 2.45 | mg/L | | | 10/11/21 18:48 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | 0.00323 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Arsenic | 0.000907 | J | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Barium | 0.106 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Boron | 0.668 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Cadmium | 0.000287 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Calcium | 183 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Cobalt | 0.00224 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Lead | 0.000609 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Lithium | 0.0247 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Molybdenum | 0.0505 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Selenium | 0.00128 | J | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:27 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:38 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 726 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

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Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW3

Lab Sample ID: 310-216815-2

Date Collected: 10/04/21 16:24

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 12.6 | | 5.00 | 2.15 | mg/L | | | 10/13/21 08:22 | 5 |
| Fluoride | 0.492 | J | 0.500 | 0.275 | mg/L | | | 10/13/21 08:22 | 5 |
| Sulfate | 292 | | 5.00 | 2.45 | mg/L | | | 10/13/21 08:22 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Arsenic | 0.00354 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Barium | 0.0769 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Boron | 0.306 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Cadmium | 0.0000820 | J | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Calcium | 139 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Cobalt | 0.0115 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Lead | 0.000485 | J | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Lithium | 0.0241 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Molybdenum | 0.00356 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:30 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:41 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 860 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW5

Lab Sample ID: 310-216815-3

Date Collected: 10/04/21 12:46

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 9.28 | | 5.00 | 2.15 | mg/L | | | 10/11/21 19:19 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 19:19 | 5 |
| Sulfate | 282 | | 5.00 | 2.45 | mg/L | | | 10/11/21 19:19 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Arsenic | 0.00245 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Barium | 0.0519 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Boron | 2.86 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Cadmium | 0.0000570 | J | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Calcium | 168 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Cobalt | 0.000226 | J | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Lead | 0.000630 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Lithium | 0.0120 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Molybdenum | 0.0236 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Selenium | 0.00162 | J | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:35 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:43 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 826 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW6

Lab Sample ID: 310-216815-4

Date Collected: 10/04/21 15:38

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 6.30 | | 5.00 | 2.15 | mg/L | | | 10/11/21 19:35 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 19:35 | 5 |
| Sulfate | 132 | | 5.00 | 2.45 | mg/L | | | 10/11/21 19:35 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Arsenic | 0.000925 | J | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Barium | 0.133 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Boron | 2.48 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Cadmium | 0.0000800 | J | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Calcium | 123 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Cobalt | 0.000504 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Lead | 0.000719 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Lithium | 0.0345 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Molybdenum | 0.0124 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:38 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:45 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 524 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW7

Lab Sample ID: 310-216815-5

Date Collected: 10/04/21 18:35

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 9.27 | | 5.00 | 2.15 | mg/L | | | 10/11/21 20:22 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 20:22 | 5 |
| Sulfate | <2.45 | | 5.00 | 2.45 | mg/L | | | 10/11/21 20:22 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Arsenic | 0.0427 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Barium | 0.592 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Boron | 0.190 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Calcium | 118 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Cobalt | 0.000253 | J | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Lithium | 0.0566 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Molybdenum | 0.00183 | J | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:40 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:47 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 430 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW8

Lab Sample ID: 310-216815-6

Date Collected: 10/04/21 17:00

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 10.3 | | 5.00 | 2.15 | mg/L | | | 10/11/21 20:37 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 20:37 | 5 |
| Sulfate | 7.47 | | 5.00 | 2.45 | mg/L | | | 10/11/21 20:37 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Arsenic | 0.00958 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Barium | 0.616 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Boron | 0.107 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Calcium | 130 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Cobalt | 0.00229 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Lead | 0.000393 | J | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Lithium | 0.0340 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Molybdenum | 0.00281 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:43 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 436 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: DUP2

Lab Sample ID: 310-216815-7

Date Collected: 10/04/21 00:00

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 9.29 | | 5.00 | 2.15 | mg/L | | | 10/11/21 20:53 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/11/21 20:53 | 5 |
| Sulfate | <2.45 | | 5.00 | 2.45 | mg/L | | | 10/11/21 20:53 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Arsenic | 0.0431 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Barium | 0.607 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Boron | 0.156 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Cadmium | 0.000172 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Calcium | 117 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Cobalt | 0.000388 | J | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Lead | 0.000235 | J | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Lithium | 0.0575 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Molybdenum | 0.00198 | J | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 19:56 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:55 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 428 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

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

QC Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-331486/3
 Matrix: Water
 Analysis Batch: 331486

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chloride | <0.430 | | 1.00 | 0.430 | mg/L | | | 10/11/21 17:14 | 1 |
| Fluoride | <0.0550 | | 0.100 | 0.0550 | mg/L | | | 10/11/21 17:14 | 1 |
| Sulfate | <0.490 | | 1.00 | 0.490 | mg/L | | | 10/11/21 17:14 | 1 |

Lab Sample ID: LCS 310-331486/33
 Matrix: Water
 Analysis Batch: 331486

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Chloride | 10.0 | 10.05 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 2.00 | 2.177 | | mg/L | | 109 | 90 - 110 |
| Sulfate | 10.0 | 10.54 | | mg/L | | 105 | 90 - 110 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-330872/1-A
 Matrix: Water
 Analysis Batch: 332689

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 330872

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Barium | <0.000370 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Boron | <0.0580 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Calcium | <0.190 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Cobalt | <0.000190 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Lithium | <0.00250 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Molybdenum | <0.00130 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |

Lab Sample ID: LCS 310-330872/2-A
 Matrix: Water
 Analysis Batch: 332689

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 330872

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| Antimony | 0.200 | 0.2000 | | mg/L | | 100 | 80 - 120 |
| Arsenic | 0.200 | 0.1937 | | mg/L | | 97 | 80 - 120 |
| Barium | 0.100 | 0.1078 | | mg/L | | 108 | 80 - 120 |
| Beryllium | 0.100 | 0.09649 | | mg/L | | 96 | 80 - 120 |
| Boron | 0.200 | 0.2066 | | mg/L | | 103 | 80 - 120 |
| Cadmium | 0.100 | 0.1002 | | mg/L | | 100 | 80 - 120 |
| Calcium | 2.00 | 2.164 | | mg/L | | 108 | 80 - 120 |
| Chromium | 0.100 | 0.09767 | | mg/L | | 98 | 80 - 120 |
| Cobalt | 0.100 | 0.1033 | | mg/L | | 103 | 80 - 120 |

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

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

Lab Sample ID: LCS 310-330872/2-A
Matrix: Water
Analysis Batch: 332689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|------------|-------------|------------|---------------|------|---|------|--------------|--|
| | | | | | | | | |
| Lead | 0.200 | 0.2076 | | mg/L | | 104 | 80 - 120 | |
| Lithium | 0.200 | 0.2018 | | mg/L | | 101 | 80 - 120 | |
| Molybdenum | 0.200 | 0.1978 | | mg/L | | 99 | 80 - 120 | |
| Selenium | 0.400 | 0.3830 | | mg/L | | 96 | 80 - 120 | |
| Thallium | 0.200 | 0.1975 | | mg/L | | 99 | 80 - 120 | |

Lab Sample ID: 310-216815-2 DU
Matrix: Water
Analysis Batch: 332689

Client Sample ID: NC2MW3
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD Limit | |
|------------|---------------|------------------|------------|--------------|------|---|-----------|-------|
| | | | | | | | RPD | Limit |
| Antimony | <0.00110 | | <0.00110 | | mg/L | | NC | 20 |
| Arsenic | 0.00354 | | 0.003577 | | mg/L | | 1 | 20 |
| Barium | 0.0769 | | 0.07820 | | mg/L | | 2 | 20 |
| Beryllium | <0.000270 | | <0.000270 | | mg/L | | NC | 20 |
| Boron | 0.306 | | 0.3021 | | mg/L | | 1 | 20 |
| Cadmium | 0.0000820 | J | 0.00008000 | J | mg/L | | 2 | 20 |
| Calcium | 139 | | 140.8 | | mg/L | | 1 | 20 |
| Chromium | <0.00110 | | <0.00110 | | mg/L | | NC | 20 |
| Cobalt | 0.0115 | | 0.01162 | | mg/L | | 0.9 | 20 |
| Lead | 0.000485 | J | 0.0004880 | J | mg/L | | 0.6 | 20 |
| Lithium | 0.0241 | | 0.02454 | | mg/L | | 2 | 20 |
| Molybdenum | 0.00356 | | 0.003378 | | mg/L | | 5 | 20 |
| Selenium | <0.000960 | | 0.000960 | J | mg/L | | NC | 20 |
| Thallium | <0.000260 | | <0.000260 | | mg/L | | NC | 20 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-331210/1-A
Matrix: Water
Analysis Batch: 331367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331210

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:25 | 10/12/21 11:15 | 1 |

Lab Sample ID: LCS 310-331210/2-A
Matrix: Water
Analysis Batch: 331367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331210

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|---------|-------------|------------|---------------|------|---|------|--------------|--|
| | | | | | | | | |
| Mercury | 0.00167 | 0.001632 | | mg/L | | 98 | 80 - 120 | |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-331052/1
Matrix: Water
Analysis Batch: 331052

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <26.0 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 310-331052/2
Matrix: Water
Analysis Batch: 331052

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|------------------------|-------------|------------|---------------|------|---|------|--------------|--|
| | | | | | | | | |
| Total Dissolved Solids | 1000 | 910.0 | | mg/L | | 91 | 90 - 110 | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

HPLC/IC

Analysis Batch: 331486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | 9056A | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | 9056A | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | 9056A | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | 9056A | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | 9056A | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | 9056A | |
| 310-216815-7 | DUP2 | Total/NA | Water | 9056A | |
| MB 310-331486/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-331486/33 | Lab Control Sample | Total/NA | Water | 9056A | |

Metals

Prep Batch: 330872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | 3010A | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | 3010A | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | 3010A | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | 3010A | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | 3010A | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | 3010A | |
| 310-216815-7 | DUP2 | Total/NA | Water | 3010A | |
| MB 310-330872/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-330872/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-216815-2 DU | NC2MW3 | Total/NA | Water | 3010A | |

Prep Batch: 331210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | 7470A | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | 7470A | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | 7470A | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | 7470A | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | 7470A | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | 7470A | |
| 310-216815-7 | DUP2 | Total/NA | Water | 7470A | |
| MB 310-331210/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-331210/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 331367

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | 7470A | 331210 |
| 310-216815-2 | NC2MW3 | Total/NA | Water | 7470A | 331210 |
| 310-216815-3 | NC2MW5 | Total/NA | Water | 7470A | 331210 |
| 310-216815-4 | NC2MW6 | Total/NA | Water | 7470A | 331210 |
| 310-216815-5 | NC2MW7 | Total/NA | Water | 7470A | 331210 |
| 310-216815-6 | NC2MW8 | Total/NA | Water | 7470A | 331210 |
| 310-216815-7 | DUP2 | Total/NA | Water | 7470A | 331210 |
| MB 310-331210/1-A | Method Blank | Total/NA | Water | 7470A | 331210 |
| LCS 310-331210/2-A | Lab Control Sample | Total/NA | Water | 7470A | 331210 |

QC Association Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Metals

Analysis Batch: 332689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | 6020A | 330872 |
| 310-216815-2 | NC2MW3 | Total/NA | Water | 6020A | 330872 |
| 310-216815-3 | NC2MW5 | Total/NA | Water | 6020A | 330872 |
| 310-216815-4 | NC2MW6 | Total/NA | Water | 6020A | 330872 |
| 310-216815-5 | NC2MW7 | Total/NA | Water | 6020A | 330872 |
| 310-216815-6 | NC2MW8 | Total/NA | Water | 6020A | 330872 |
| 310-216815-7 | DUP2 | Total/NA | Water | 6020A | 330872 |
| MB 310-330872/1-A | Method Blank | Total/NA | Water | 6020A | 330872 |
| LCS 310-330872/2-A | Lab Control Sample | Total/NA | Water | 6020A | 330872 |
| 310-216815-2 DU | NC2MW3 | Total/NA | Water | 6020A | 330872 |

General Chemistry

Analysis Batch: 331052

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | SM 2540C | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | SM 2540C | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | SM 2540C | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | SM 2540C | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | SM 2540C | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | SM 2540C | |
| 310-216815-7 | DUP2 | Total/NA | Water | SM 2540C | |
| MB 310-331052/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-331052/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW2

Lab Sample ID: 310-216815-1

Date Collected: 10/04/21 17:43

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 18:48 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:27 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:38 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: NC2MW3

Lab Sample ID: 310-216815-2

Date Collected: 10/04/21 16:24

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/13/21 08:22 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:30 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:41 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: NC2MW5

Lab Sample ID: 310-216815-3

Date Collected: 10/04/21 12:46

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 19:19 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:35 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:43 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: NC2MW6

Lab Sample ID: 310-216815-4

Date Collected: 10/04/21 15:38

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 19:35 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:38 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:45 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Client Sample ID: NC2MW7

Lab Sample ID: 310-216815-5

Date Collected: 10/04/21 18:35

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 20:22 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:40 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:47 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: NC2MW8

Lab Sample ID: 310-216815-6

Date Collected: 10/04/21 17:00

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 20:37 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:43 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:53 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: DUP2

Lab Sample ID: 310-216815-7

Date Collected: 10/04/21 00:00

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331486 | 10/11/21 20:53 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 19:56 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331210 | 10/11/21 11:25 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:55 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

Laboratory: Eurofins TestAmerica, Cedar Falls

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|--------------------------------|-----------------------|-----------------|
| Colorado | Petroleum Storage Tank Program | IA100001 (OR) | 09-29-22 |
| Georgia | State | IA100001 (OR) | 09-29-22 |
| Illinois | NELAP | 200024 | 11-29-21 |
| Iowa | State | 007 | 12-01-21 |
| Kansas | NELAP | E-10341 | 01-31-22 |
| Minnesota | NELAP | 019-999-319 | 12-31-21 |
| Minnesota (Petrofund) | State | 3349 | 04-06-23 |
| North Dakota | State | R-186 | 09-29-21 * |
| Oregon | NELAP | IA100001 | 09-29-22 |
| USDA | US Federal Programs | P330-19-00003 | 01-02-22 |

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

Eurofins TestAmerica, Cedar Falls

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-1

| Method | Method Description | Protocol | Laboratory |
|----------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls



Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|----------------------------|
| Client Information | | |
| Client: Omaha Public Power District | | |
| City/State: <small>CITY</small> Omaha <small>STATE</small> NE | Project: Nebraska City Station Unit 1/2 | |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> 10-7-21 <small>TIME</small> 0940 | Received By: HED | |
| Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i> | | |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler # 1 of 2 cc 10-7-21</i> | | |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? 1</i> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: N Correction Factor (°C): 0 | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): 1.0 Corrected Temp (°C): 1.0 | | |
| • Sample Container Temperature | | |
| Container(s) used: | <small>CONTAINER 1</small> | <small>CONTAINER 2</small> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| contained : NC2MW2, NC2MW6, NC2MW8, DUP2 | | |

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|--------------------------------|----------------------------|
| Client Information | | |
| Client: Omaha Public Power District | | |
| City/State: <small>CITY</small> Omaha <small>STATE</small> NE | Project: Nebraska City Station | |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> 10-7-21 <small>TIME</small> 0940 | Received By: HED | |
| Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i> | | |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler # 2 of 2 cc 10-7-21</i> | | |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? 1</i> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: N Correction Factor (°C): 0 | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): 0.4 Corrected Temp (°C): 0.4 | | |
| • Sample Container Temperature | | |
| Container(s) used: | <small>CONTAINER 1</small> | <small>CONTAINER 2</small> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| contained : NC2MW7, NC2MW3, NC2MW5 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Client Information Company: Omaha Public Power District Address: 444 South 16th Street Mail 9E/EP1 City: Omaha State: ZG NE 68102-2247 Phone: (531) 226-2515 Email: kluhn@ppod.com Project Name: Nebraska City Station Unit 2 CCR / Landfill Site: Nebraska City Station Unit 2 | | Sender: Kyle K. Uhing Phone: (531) 226-2515 Email: shawn.hayes@testamericainc.com | | Can you Hayes, Shawn M E-Mail: shawn.hayes@testamericainc.com | | COC No: Page: Job # |
| Analysis Requested Due Date Requested: TAT Requested (days): Perform MS/MSD (Yes or No): Field Filtered Sample (Yes or No): Total # of Containers: | | | | | | |
| Sample Identification NC2MW2 - NC2MW3 - NC2MW5 - NC2MW6 - NC2MW7 - NC2MW8 - 5882 | Sample Date 10/12/21 10/12/21 10/14/21 10/14/21 10/14/21 10/14/21 10/14/21 | Sample Time 11:13 16:24 13:14 15:38 16:35 17:50 - | Sample Type (C-Comp, G-Grab) G G G G G G G | Matrix (Unknown, Overhead, Grab) W W W W W W W | Preservation Code: G W W W W W W | Special Instructions/Note: CCR Appendix III and V Constituents CCR Appendix III and V Constituents |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | |
| Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | |
| Date: 10/16/2021 15:30 Date/Time: 10-7-21 09:40 Date/Time: 10-7-21 09:40 Date/Time: 10-7-21 09:40 | | | | | | |

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216815-1

Login Number: 216815
List Number: 1
Creator: Muehling, Angela C

List Source: Eurofins TestAmerica, Cedar Falls

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-216815-2
Client Project/Site: Nebraska City Station Unit 2 CCR

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
11/16/2021 3:42:38 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Laboratory Job ID: 310-216815-2

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

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

Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Job ID: 310-216815-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-216815-2**

Comments

No additional comments.

Receipt

The samples were received on 10/7/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 1.0° C.

RAD

Method PrecSep_0: Radium-228 Prep Batch 160-530648

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW2 (310-216815-1), NC2MW3 (310-216815-2), NC2MW5 (310-216815-3), NC2MW6 (310-216815-4) and NC2MW7 (310-216815-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-530645

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW2 (310-216815-1), NC2MW3 (310-216815-2), NC2MW5 (310-216815-3), NC2MW6 (310-216815-4) and NC2MW7 (310-216815-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

Sample Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-216815-1 | NC2MW2 | Water | 10/04/21 17:43 | 10/07/21 09:40 |
| 310-216815-2 | NC2MW3 | Water | 10/04/21 16:24 | 10/07/21 09:40 |
| 310-216815-3 | NC2MW5 | Water | 10/04/21 12:46 | 10/07/21 09:40 |
| 310-216815-4 | NC2MW6 | Water | 10/04/21 15:38 | 10/07/21 09:40 |
| 310-216815-5 | NC2MW7 | Water | 10/04/21 18:35 | 10/07/21 09:40 |
| 310-216815-6 | NC2MW8 | Water | 10/04/21 17:00 | 10/07/21 09:40 |
| 310-216815-7 | DUP2 | Water | 10/04/21 00:00 | 10/07/21 09:40 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW2

Lab Sample ID: 310-216815-1

Date Collected: 10/04/21 17:43

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.157 | U | 0.275 | 0.275 | 1.00 | 0.477 | pCi/L | 10/11/21 10:03 | 11/03/21 22:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/03/21 22:51 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.76 | | 0.497 | 0.522 | 1.00 | 0.638 | pCi/L | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.5 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.92 | | 0.568 | 0.590 | 5.00 | 0.638 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW3

Lab Sample ID: 310-216815-2

Date Collected: 10/04/21 16:24

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0739 | U | 0.262 | 0.262 | 1.00 | 0.482 | pCi/L | 10/11/21 10:03 | 11/03/21 22:51 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/03/21 22:51 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 0.824 | | 0.366 | 0.374 | 1.00 | 0.518 | pCi/L | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 100 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Y Carrier | 82.2 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 0.898 | | 0.450 | 0.457 | 5.00 | 0.518 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW5

Lab Sample ID: 310-216815-3

Date Collected: 10/04/21 12:46

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.0501 | U | 0.256 | 0.256 | 1.00 | 0.480 | pCi/L | 10/11/21 10:03 | 11/03/21 22:52 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 103 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/03/21 22:52 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.10 | | 0.448 | 0.459 | 1.00 | 0.646 | pCi/L | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 103 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |
| Y Carrier | 82.6 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:14 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.15 | | 0.516 | 0.526 | 5.00 | 0.646 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW6

Lab Sample ID: 310-216815-4

Date Collected: 10/04/21 15:38

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 1.15 | | 0.526 | 0.536 | 1.00 | 0.656 | pCi/L | 10/11/21 10:03 | 11/04/21 08:15 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.9 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/04/21 08:15 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 3.84 | | 0.749 | 0.828 | 1.00 | 0.783 | pCi/L | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.9 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Y Carrier | 81.9 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 4.99 | | 0.915 | 0.986 | 5.00 | 0.783 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW7

Lab Sample ID: 310-216815-5

Date Collected: 10/04/21 18:35

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.477 | | 0.322 | 0.325 | 1.00 | 0.468 | pCi/L | 10/11/21 10:03 | 11/04/21 08:15 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/04/21 08:15 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.22 | | 0.390 | 0.406 | 1.00 | 0.507 | pCi/L | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 101 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Y Carrier | 83.7 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.70 | | 0.506 | 0.520 | 5.00 | 0.507 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW8

Lab Sample ID: 310-216815-6

Date Collected: 10/04/21 17:00

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-226 | 0.886 | | 0.275 | 0.287 | 1.00 | 0.263 | pCi/L | 10/11/21 10:03 | 11/04/21 08:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.5 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/04/21 08:18 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|------------------|-----------------------------|-----------------------------|------|-------|-------|-----------------|-----------------|----------------|
| Radium-228 | 1.44 | | 0.392 | 0.414 | 1.00 | 0.522 | pCi/L | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.5 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |
| Y Carrier | 83.0 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:15 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 2.32 | | 0.479 | 0.504 | 5.00 | 0.522 | pCi/L | | 11/13/21 18:14 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: DUP2

Lab Sample ID: 310-216815-7

Date Collected: 10/04/21 00:00

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|--------------------------|--------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.428 | | 0.240 | 0.243 | 1.00 | 0.314 | pCi/L | 10/12/21 11:32 | 11/05/21 20:30 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 100 | | 40 - 110 | 10/12/21 11:32 | 11/05/21 20:30 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|--------------------------|--------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.46 | | 0.397 | 0.419 | 1.00 | 0.501 | pCi/L | 10/12/21 12:13 | 11/04/21 16:37 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 100 | | 40 - 110 | 10/12/21 12:13 | 11/04/21 16:37 | 1 |
| Y Carrier | 86.4 | | 40 - 110 | 10/12/21 12:13 | 11/04/21 16:37 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|--------------------------|--------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.89 | | 0.464 | 0.484 | 5.00 | 0.501 | pCi/L | | 11/13/21 18:14 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Qualifiers

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

Glossary

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

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-530645/23-A
Matrix: Water
Analysis Batch: 535165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|----------------|----------------|---------|----------------|----------------|---------|
| Radium-226 | 0.2362 | U | 0.259 | 0.260 | 1.00 | 0.418 | pCi/L | 10/11/21 10:03 | 11/04/21 08:21 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 84.2 | | 40 - 110 | | 10/11/21 10:03 | 11/04/21 08:21 | 1 | | | |

Lab Sample ID: LCS 160-530645/1-A
Matrix: Water
Analysis Batch: 534853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 15.1 | 14.07 | | 1.80 | 1.00 | 0.489 | pCi/L | 93 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | | | |

Lab Sample ID: LCSD 160-530645/2-A
Matrix: Water
Analysis Batch: 534853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|----------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-226 | 15.1 | 13.33 | | 1.70 | 1.00 | 0.422 | pCi/L | 88 | 75 - 125 | 0.21 | 1 |
| Carrier | LCSD %Yield | LCSD Qualifier | Limits | | | | | | | | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | | | | | |

Lab Sample ID: MB 160-531167/24-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531167

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|----------------|----------------|---------|----------------|----------------|---------|
| Radium-226 | 0.1859 | U | 0.202 | 0.202 | 1.00 | 0.324 | pCi/L | 10/12/21 11:32 | 11/05/21 20:33 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 101 | | 40 - 110 | | 10/12/21 11:32 | 11/05/21 20:33 | 1 | | | |

Lab Sample ID: LCS 160-531167/1-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531167

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-226 | 15.1 | 13.20 | | 1.64 | 1.00 | 0.378 | pCi/L | 87 | 75 - 125 |

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QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

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

Lab Sample ID: LCS 160-531167/1-A
Matrix: Water
Analysis Batch: 535209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531167

| Carrier | LCS %Yield | LCS Qualifier | Limits | |
|------------|------------|---------------|----------|--|
| Ba Carrier | 86.0 | | 40 - 110 | |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-530648/23-A
Matrix: Water
Analysis Batch: 534860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|----------------|----------------|---------|----------------|----------------|---------|
| Radium-228 | 0.6923 | | 0.415 | 0.420 | 1.00 | 0.635 | pCi/L | 10/11/21 10:40 | 11/03/21 13:11 | 1 |
| Carrier | MB %Yield | MB Qualifier | Limits | | Prepared | Analyzed | Dil Fac | | | |
| Ba Carrier | 84.2 | | 40 - 110 | | 10/11/21 10:40 | 11/03/21 13:11 | 1 | | | |
| Y Carrier | 89.3 | | 40 - 110 | | 10/11/21 10:40 | 11/03/21 13:11 | 1 | | | |

Lab Sample ID: LCS 160-530648/1-A
Matrix: Water
Analysis Batch: 534851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits |
|------------|-------------|---------------|----------|-----------------------|------|-------|-------|------|--------------|
| Radium-228 | 12.2 | 12.37 | | 1.47 | 1.00 | 0.488 | pCi/L | 101 | 75 - 125 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | | | |
| Y Carrier | 80.4 | | 40 - 110 | | | | | | |

Lab Sample ID: LCSD 160-530648/2-A
Matrix: Water
Analysis Batch: 535010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | Spike Added | LCSD Result | LCSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. Limits | RER | RER Limit |
|------------|-------------|----------------|-----------|-----------------------|------|-------|-------|------|--------------|------|-----------|
| Radium-228 | 12.2 | 12.80 | | 1.51 | 1.00 | 0.557 | pCi/L | 105 | 75 - 125 | 0.15 | 1 |
| Carrier | LCSD %Yield | LCSD Qualifier | Limits | | | | | | | | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | | | | | |
| Y Carrier | 81.5 | | 40 - 110 | | | | | | | | |

Lab Sample ID: MB 160-531213/24-A
Matrix: Water
Analysis Batch: 535030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531213

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.4763 | | 0.299 | 0.302 | 1.00 | 0.453 | pCi/L | 10/12/21 12:13 | 11/04/21 16:38 | 1 |

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QC Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

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

Lab Sample ID: MB 160-531213/24-A
 Matrix: Water
 Analysis Batch: 535030

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 531213

| Carrier | MB MB | | Limits |
|------------|--------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 101 | | 40 - 110 |
| Y Carrier | 85.2 | | 40 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 10/12/21 12:13 | 11/04/21 16:38 | 1 |
| 10/12/21 12:13 | 11/04/21 16:38 | 1 |

Lab Sample ID: LCS 160-531213/1-A
 Matrix: Water
 Analysis Batch: 535031

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 531213

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec. |
|------------|-------------|------------|----------|-----------------------|------|------|-------|------|----------|
| | | | | | | | | | Limits |
| Radium-228 | 12.2 | 12.94 | | 1.78 | 1.00 | 1.05 | pCi/L | 106 | 75 - 125 |

| Carrier | LCS LCS | | Limits |
|------------|---------|-----------|----------|
| | %Yield | Qualifier | |
| Ba Carrier | 86.0 | | 40 - 110 |
| Y Carrier | 76.6 | | 40 - 110 |

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Rad

Prep Batch: 530645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|------------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | PrecSep-21 | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | PrecSep-21 | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | PrecSep-21 | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | PrecSep-21 | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | PrecSep-21 | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | PrecSep-21 | |
| MB 160-530645/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-530645/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCS 160-530645/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 530648

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 310-216815-1 | NC2MW2 | Total/NA | Water | PrecSep_0 | |
| 310-216815-2 | NC2MW3 | Total/NA | Water | PrecSep_0 | |
| 310-216815-3 | NC2MW5 | Total/NA | Water | PrecSep_0 | |
| 310-216815-4 | NC2MW6 | Total/NA | Water | PrecSep_0 | |
| 310-216815-5 | NC2MW7 | Total/NA | Water | PrecSep_0 | |
| 310-216815-6 | NC2MW8 | Total/NA | Water | PrecSep_0 | |
| MB 160-530648/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-530648/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCS 160-530648/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Prep Batch: 531167

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 310-216815-7 | DUP2 | Total/NA | Water | PrecSep-21 | |
| MB 160-531167/24-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-531167/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |

Prep Batch: 531213

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 310-216815-7 | DUP2 | Total/NA | Water | PrecSep_0 | |
| MB 160-531213/24-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-531213/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW2

Lab Sample ID: 310-216815-1

Date Collected: 10/04/21 17:43

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 534860 | 11/03/21 22:51 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:14 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Client Sample ID: NC2MW3

Lab Sample ID: 310-216815-2

Date Collected: 10/04/21 16:24

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 534860 | 11/03/21 22:51 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:14 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Client Sample ID: NC2MW5

Lab Sample ID: 310-216815-3

Date Collected: 10/04/21 12:46

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 534860 | 11/03/21 22:52 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:14 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Client Sample ID: NC2MW6

Lab Sample ID: 310-216815-4

Date Collected: 10/04/21 15:38

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 535031 | 11/04/21 08:15 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:15 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Client Sample ID: NC2MW7

Lab Sample ID: 310-216815-5

Date Collected: 10/04/21 18:35

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 535031 | 11/04/21 08:15 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:15 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Client Sample ID: NC2MW8

Lab Sample ID: 310-216815-6

Date Collected: 10/04/21 17:00

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 535165 | 11/04/21 08:18 | ANW | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:15 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Client Sample ID: DUP2

Lab Sample ID: 310-216815-7

Date Collected: 10/04/21 00:00

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 531167 | 11/02/21 11:32 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 535213 | 11/05/21 20:30 | MLK | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 531213 | 10/12/21 12:13 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 535031 | 11/04/21 16:37 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 536457 | 11/13/21 18:14 | MLK | TAL SL |

Laboratory References:

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

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Laboratory: Eurofins TestAmerica, St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 |
| California | State | 2886 | 06-30-21 * |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-22 |
| HI - RadChem Recognition | State | n/a | 06-30-22 |
| Illinois | NELAP | 200023 | 11-30-22 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 * |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-22 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-22 |
| MI - RadChem Recognition | State | 9005 | 06-30-22 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-22 |
| New Jersey | NELAP | MO002 | 06-30-22 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-22 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-22 |
| Oregon | NELAP | 4157 | 09-01-22 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-22 |
| Texas | NELAP | T104704193 | 07-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-22 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542021-14 | 08-01-22 |
| Virginia | NELAP | 10310 | 06-14-22 |
| Washington | State | C592 | 08-30-22 |
| West Virginia DEP | State | 381 | 10-31-22 |

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

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

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

Protocol References:

None = None
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
 TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|---|----------------------------|
| Client Information | | |
| Client: Omaha Public Power District | | |
| City/State: <small>CITY</small> Omaha <small>STATE</small> NE | Project: Nebraska City Station Unit 1/2 | |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> 10-7-21 <small>TIME</small> 0940 | Received By: HED | |
| Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i> | | |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler # 1 of 2 cc 10-7-21</i> | | |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? 1</i> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: N Correction Factor (°C): 0 | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): 1.0 Corrected Temp (°C): 1.0 | | |
| • Sample Container Temperature | | |
| Container(s) used: | <small>CONTAINER 1</small> | <small>CONTAINER 2</small> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| contained : NC2MW2, NC2MW6, NC2MW8, DUP2 | | |

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

| | | |
|---|--------------------------------|----------------------------|
| Client Information | | |
| Client: Omaha Public Power District | | |
| City/State: <small>CITY</small> Omaha <small>STATE</small> NE | Project: Nebraska City Station | |
| Receipt Information | | |
| Date/Time Received: <small>DATE</small> 10-7-21 <small>TIME</small> 0940 | Received By: HED | |
| Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: | | |
| Condition of Cooler/Containers | | |
| Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID:</i> | | |
| Multiple Coolers? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler # 2 of 2 cc 10-7-21</i> | | |
| Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i> | | |
| Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Which VOA samples are in cooler? 1</i> | | |
| Temperature Record | | |
| Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: <input type="checkbox"/> NONE | | |
| Thermometer ID: N Correction Factor (°C): 0 | | |
| • Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature | | |
| Uncorrected Temp (°C): 0.4 Corrected Temp (°C): 0.4 | | |
| • Sample Container Temperature | | |
| Container(s) used: | <small>CONTAINER 1</small> | <small>CONTAINER 2</small> |
| Uncorrected Temp (°C): | | |
| Corrected Temp (°C): | | |
| Exceptions Noted | | |
| 1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) <i>If yes: Is there evidence that the chilling process began?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| NOTE: If yes, contact PM before proceeding. If no, proceed with login | | |
| Additional Comments | | |
| contained : NC2MW7, NC2MW3, NC2MW5 | | |

| | | | | | |
|---|--|--|--|---|--|
| Client Information Company: Omaha Public Power District Address: 444 South 16th Street Mail 9E/EP1 City: Omaha State: ZG NE 68102-2247 Phone: (531) 226-2515 Email: kluhn@ppod.com Project Name: Nebraska City Station Unit 2 CCR / Landfill Site: Nebraska City Station Unit 2 | | Sender: Kyle K. Uhing Phone: (531) 226-2515 Email: shawn.hayes@testamericainc.com | | Currier Tracking No(s): Job #: Page: COC No: | |
| Due Date Requested: TAT Requested (days): PO #: WO #: TestAmerica Project #: 31007559 SSOW#: | | Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Total # of Containers: 4 Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> 9315 Ra228, 9320 Ra228, Combined Ra228 and Ra232 Total # of Containers: 4 2540C TDS, 9056A Chloride, Fluoride, Sulfate 417A Mercury Special Instructions/Note: CCR Appendix III and IV Constituents CCR Appendix III and IV Constituents | | | |
| Sample Identification Sample Date: 10/12/21 Sample Time: 11:13 Sample Type (C-Comp, G-Grab): G Matrix (Unknown, Overhead, Grab): W Preservation Code: G | | Special Instructions/Note: CCR Appendix III and IV Constituents CCR Appendix III and IV Constituents | | | |
| Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements: | | | |
| Empty Kit Relinquished by: Relinquished by: [Signature] Date: 10/16/21 15:30 Company: [Signature] | | Received by: [Signature] Date/Time: 10-7-21 09:40 Company: | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: | | | |

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216815-2

Login Number: 216815
List Number: 1
Creator: Muehling, Angela C

List Source: Eurofins TestAmerica, Cedar Falls

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216815-2

Login Number: 216815

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/08/21 07:26 PM

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216815-2

Login Number: 216815

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/11/21 04:49 PM

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

Tracer/Carrier Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 2 CCR

Job ID: 310-216815-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Percent Yield (Acceptance Limits) | | |
|-----------------------------------|------------------------|----------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) |
| 310-216815-1 | NC2MW2 | 91.5 |
| 310-216815-2 | NC2MW3 | 100 |
| 310-216815-3 | NC2MW5 | 103 |
| 310-216815-4 | NC2MW6 | 96.9 |
| 310-216815-5 | NC2MW7 | 101 |
| 310-216815-6 | NC2MW8 | 99.5 |
| 310-216815-7 | DUP2 | 100 |
| LCS 160-530645/1-A | Lab Control Sample | 97.4 |
| LCS 160-531167/1-A | Lab Control Sample | 86.0 |
| LCSD 160-530645/2-A | Lab Control Sample Dup | 97.4 |
| MB 160-530645/23-A | Method Blank | 84.2 |
| MB 160-531167/24-A | Method Blank | 101 |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Percent Yield (Acceptance Limits) | | | |
|-----------------------------------|------------------------|----------------|---------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
| 310-216815-1 | NC2MW2 | 91.5 | 82.2 |
| 310-216815-2 | NC2MW3 | 100 | 82.2 |
| 310-216815-3 | NC2MW5 | 103 | 82.6 |
| 310-216815-4 | NC2MW6 | 96.9 | 81.9 |
| 310-216815-5 | NC2MW7 | 101 | 83.7 |
| 310-216815-6 | NC2MW8 | 99.5 | 83.0 |
| 310-216815-7 | DUP2 | 100 | 86.4 |
| LCS 160-530648/1-A | Lab Control Sample | 97.4 | 80.4 |
| LCS 160-531213/1-A | Lab Control Sample | 86.0 | 76.6 |
| LCSD 160-530648/2-A | Lab Control Sample Dup | 97.4 | 81.5 |
| MB 160-530648/23-A | Method Blank | 84.2 | 89.3 |
| MB 160-531213/24-A | Method Blank | 101 | 85.2 |

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
 3019 Venture Way
 Cedar Falls, IA 50613
 Tel: (319)277-2401

Laboratory Job ID: 310-216812-1
 Client Project/Site: Nebraska City Station Unit 1/2 CCR

For:
 Omaha Public Power District
 Attn: Accounts Payable, 4E/EP-5
 444 South 16th Street Mall
 Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
 10/25/2021 6:19:26 PM

Shawn Hayes, Senior Project Manager
 (319)229-8211
 Shawn.Hayes@Eurofinset.com



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

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

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Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-216812-1**

Comments

No additional comments.

Receipt

The samples were received on 10/7/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

HPLC/IC

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

Metals

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

General Chemistry

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



Sample Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-216812-1 | NC2MW4 | Water | 10/04/21 10:53 | 10/07/21 09:40 |
| 310-216812-2 | MW13 | Water | 10/04/21 09:59 | 10/07/21 09:40 |

Detection Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Client Sample ID: NC2MW4

Lab Sample ID: 310-216812-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|----------|-----------|----------|-----------|------|-----|-----|---|----------|-----------|
| Chloride | 4.86 | J | 5.00 | 2.15 | mg/L | | | 5 | 9056A | Total/NA |
| Sulfate | 62.6 | | 5.00 | 2.45 | mg/L | | | 5 | 9056A | Total/NA |
| Arsenic | 0.00275 | | 0.00200 | 0.000750 | mg/L | | | 1 | 6020A | Total/NA |
| Barium | 0.420 | | 0.00200 | 0.000370 | mg/L | | | 1 | 6020A | Total/NA |
| Beryllium | 0.000571 | J | 0.00100 | 0.000270 | mg/L | | | 1 | 6020A | Total/NA |
| Boron | 0.119 | | 0.100 | 0.0580 | mg/L | | | 1 | 6020A | Total/NA |
| Cadmium | 0.000469 | | 0.000100 | 0.0000510 | mg/L | | | 1 | 6020A | Total/NA |
| Calcium | 128 | | 0.500 | 0.190 | mg/L | | | 1 | 6020A | Total/NA |
| Chromium | 0.00110 | J | 0.00500 | 0.00110 | mg/L | | | 1 | 6020A | Total/NA |
| Cobalt | 0.00203 | | 0.000500 | 0.000190 | mg/L | | | 1 | 6020A | Total/NA |
| Lead | 0.00610 | | 0.000500 | 0.000210 | mg/L | | | 1 | 6020A | Total/NA |
| Lithium | 0.0324 | | 0.0100 | 0.00250 | mg/L | | | 1 | 6020A | Total/NA |
| Molybdenum | 0.00154 | J | 0.00200 | 0.00130 | mg/L | | | 1 | 6020A | Total/NA |
| Selenium | 0.00391 | J | 0.00500 | 0.000960 | mg/L | | | 1 | 6020A | Total/NA |
| Thallium | 0.000527 | J | 0.00100 | 0.000260 | mg/L | | | 1 | 6020A | Total/NA |
| Total Dissolved Solids | 486 | | 50.0 | 26.0 | mg/L | | | 1 | SM 2540C | Total/NA |

Client Sample ID: MW13

Lab Sample ID: 310-216812-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|------------------------|---------|-----------|----------|----------|------|-----|-----|---|----------|-----------|
| Chloride | 11.5 | | 5.00 | 2.15 | mg/L | | | 5 | 9056A | Total/NA |
| Sulfate | 47.4 | | 5.00 | 2.45 | mg/L | | | 5 | 9056A | Total/NA |
| Arsenic | 0.0402 | | 0.00200 | 0.000750 | mg/L | | | 1 | 6020A | Total/NA |
| Barium | 0.257 | F1 | 0.00200 | 0.000370 | mg/L | | | 1 | 6020A | Total/NA |
| Boron | 0.105 | | 0.100 | 0.0580 | mg/L | | | 1 | 6020A | Total/NA |
| Calcium | 126 | | 0.500 | 0.190 | mg/L | | | 1 | 6020A | Total/NA |
| Cobalt | 0.00102 | | 0.000500 | 0.000190 | mg/L | | | 1 | 6020A | Total/NA |
| Lithium | 0.0330 | | 0.0100 | 0.00250 | mg/L | | | 1 | 6020A | Total/NA |
| Total Dissolved Solids | 510 | | 50.0 | 26.0 | mg/L | | | 1 | SM 2540C | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Cedar Falls

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Client Sample ID: NC2MW4

Lab Sample ID: 310-216812-1

Date Collected: 10/04/21 10:53

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 4.86 | J | 5.00 | 2.15 | mg/L | | | 10/12/21 03:23 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/12/21 03:23 | 5 |
| Sulfate | 62.6 | | 5.00 | 2.45 | mg/L | | | 10/12/21 03:23 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Arsenic | 0.00275 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Barium | 0.420 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Beryllium | 0.000571 | J | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Boron | 0.119 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Cadmium | 0.000469 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Calcium | 128 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Chromium | 0.00110 | J | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Cobalt | 0.00203 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Lead | 0.00610 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Lithium | 0.0324 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Molybdenum | 0.00154 | J | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Selenium | 0.00391 | J | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |
| Thallium | 0.000527 | J | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 18:46 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:22 | 10/12/21 11:06 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 486 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Client Sample ID: MW13

Lab Sample ID: 310-216812-2

Date Collected: 10/04/21 09:59

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9056A - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| Chloride | 11.5 | | 5.00 | 2.15 | mg/L | | | 10/12/21 03:39 | 5 |
| Fluoride | <0.275 | | 0.500 | 0.275 | mg/L | | | 10/12/21 03:39 | 5 |
| Sulfate | 47.4 | | 5.00 | 2.45 | mg/L | | | 10/12/21 03:39 | 5 |

Method: 6020A - Metals (ICP/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Arsenic | 0.0402 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Barium | 0.257 | F1 | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Boron | 0.105 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Calcium | 126 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Cobalt | 0.00102 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Lithium | 0.0330 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Molybdenum | <0.00130 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 18:49 | 1 |

Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:22 | 10/12/21 11:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| Total Dissolved Solids | 510 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Qualifiers

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Metals

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

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

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-331496/3
Matrix: Water
Analysis Batch: 331496

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|-------|--------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chloride | <0.430 | | 1.00 | 0.430 | mg/L | | | 10/12/21 00:31 | 1 |
| Fluoride | <0.0550 | | 0.100 | 0.0550 | mg/L | | | 10/12/21 00:31 | 1 |
| Sulfate | <0.490 | | 1.00 | 0.490 | mg/L | | | 10/12/21 00:31 | 1 |

Lab Sample ID: LCS 310-331496/33
Matrix: Water
Analysis Batch: 331496

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Chloride | 10.0 | 10.06 | | mg/L | | 101 | 90 - 110 |
| Fluoride | 2.00 | 2.168 | | mg/L | | 108 | 90 - 110 |
| Sulfate | 10.0 | 10.54 | | mg/L | | 105 | 90 - 110 |

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 310-330872/1-A
Matrix: Water
Analysis Batch: 332689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|------------|-----------|----------|-----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Antimony | <0.00110 | | 0.00200 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Arsenic | <0.000750 | | 0.00200 | 0.000750 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Barium | <0.000370 | | 0.00200 | 0.000370 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Beryllium | <0.000270 | | 0.00100 | 0.000270 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Boron | <0.0580 | | 0.100 | 0.0580 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Cadmium | <0.0000510 | | 0.000100 | 0.0000510 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Calcium | <0.190 | | 0.500 | 0.190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Chromium | <0.00110 | | 0.00500 | 0.00110 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Cobalt | <0.000190 | | 0.000500 | 0.000190 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Lead | <0.000210 | | 0.000500 | 0.000210 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Lithium | <0.00250 | | 0.0100 | 0.00250 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Molybdenum | <0.00130 | | 0.00200 | 0.00130 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Selenium | <0.000960 | | 0.00500 | 0.000960 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |
| Thallium | <0.000260 | | 0.00100 | 0.000260 | mg/L | | 10/08/21 09:00 | 10/22/21 18:31 | 1 |

Lab Sample ID: LCS 310-330872/2-A
Matrix: Water
Analysis Batch: 332689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| Antimony | 0.200 | 0.2000 | | mg/L | | 100 | 80 - 120 |
| Arsenic | 0.200 | 0.1937 | | mg/L | | 97 | 80 - 120 |
| Barium | 0.100 | 0.1078 | | mg/L | | 108 | 80 - 120 |
| Beryllium | 0.100 | 0.09649 | | mg/L | | 96 | 80 - 120 |
| Boron | 0.200 | 0.2066 | | mg/L | | 103 | 80 - 120 |
| Cadmium | 0.100 | 0.1002 | | mg/L | | 100 | 80 - 120 |
| Calcium | 2.00 | 2.164 | | mg/L | | 108 | 80 - 120 |
| Chromium | 0.100 | 0.09767 | | mg/L | | 98 | 80 - 120 |
| Cobalt | 0.100 | 0.1033 | | mg/L | | 103 | 80 - 120 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

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

Lab Sample ID: LCS 310-330872/2-A
Matrix: Water
Analysis Batch: 332689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|------------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | Result | Limits |
| Lead | 0.200 | 0.2076 | | mg/L | | 104 | 80 - 120 | |
| Lithium | 0.200 | 0.2018 | | mg/L | | 101 | 80 - 120 | |
| Molybdenum | 0.200 | 0.1978 | | mg/L | | 99 | 80 - 120 | |
| Selenium | 0.400 | 0.3830 | | mg/L | | 96 | 80 - 120 | |
| Thallium | 0.200 | 0.1975 | | mg/L | | 99 | 80 - 120 | |

Lab Sample ID: 310-216812-2 MS

Matrix: Water
Analysis Batch: 332689

Client Sample ID: MW13
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. | |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|--------|
| | | | | | | | | | Result | Limits |
| Antimony | <0.00110 | | 0.200 | 0.2042 | | mg/L | | 102 | 75 - 125 | |
| Arsenic | 0.0402 | | 0.200 | 0.2425 | | mg/L | | 101 | 75 - 125 | |
| Barium | 0.257 | F1 | 0.100 | 0.3947 | F1 | mg/L | | 137 | 75 - 125 | |
| Beryllium | <0.000270 | | 0.100 | 0.09586 | | mg/L | | 96 | 75 - 125 | |
| Boron | 0.105 | | 0.200 | 0.2795 | | mg/L | | 87 | 75 - 125 | |
| Cadmium | <0.0000510 | | 0.100 | 0.1028 | | mg/L | | 103 | 75 - 125 | |
| Calcium | 126 | | 2.00 | 134.3 | 4 | mg/L | | 392 | 75 - 125 | |
| Chromium | <0.00110 | | 0.100 | 0.09720 | | mg/L | | 97 | 75 - 125 | |
| Cobalt | 0.00102 | | 0.100 | 0.09995 | | mg/L | | 99 | 75 - 125 | |
| Lead | <0.000210 | | 0.200 | 0.2029 | | mg/L | | 101 | 75 - 125 | |
| Lithium | 0.0330 | | 0.200 | 0.2257 | | mg/L | | 96 | 75 - 125 | |
| Molybdenum | <0.00130 | | 0.200 | 0.2117 | | mg/L | | 106 | 75 - 125 | |
| Selenium | <0.000960 | | 0.400 | 0.4038 | | mg/L | | 101 | 75 - 125 | |
| Thallium | <0.000260 | | 0.200 | 0.1973 | | mg/L | | 99 | 75 - 125 | |

Lab Sample ID: 310-216812-2 MSD

Matrix: Water
Analysis Batch: 332689

Client Sample ID: MW13
Prep Type: Total/NA
Prep Batch: 330872

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. | | |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| | | | | | | | | | Result | RPD | Limit |
| Antimony | <0.00110 | | 0.200 | 0.2031 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Arsenic | 0.0402 | | 0.200 | 0.2434 | | mg/L | | 102 | 75 - 125 | 0 | 20 |
| Barium | 0.257 | F1 | 0.100 | 0.3913 | F1 | mg/L | | 134 | 75 - 125 | 1 | 20 |
| Beryllium | <0.000270 | | 0.100 | 0.09465 | | mg/L | | 95 | 75 - 125 | 1 | 20 |
| Boron | 0.105 | | 0.200 | 0.2855 | | mg/L | | 90 | 75 - 125 | 2 | 20 |
| Cadmium | <0.0000510 | | 0.100 | 0.1026 | | mg/L | | 103 | 75 - 125 | 0 | 20 |
| Calcium | 126 | | 2.00 | 136.9 | 4 | mg/L | | 520 | 75 - 125 | 2 | 20 |
| Chromium | <0.00110 | | 0.100 | 0.09733 | | mg/L | | 97 | 75 - 125 | 0 | 20 |
| Cobalt | 0.00102 | | 0.100 | 0.09785 | | mg/L | | 97 | 75 - 125 | 2 | 20 |
| Lead | <0.000210 | | 0.200 | 0.2012 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Lithium | 0.0330 | | 0.200 | 0.2220 | | mg/L | | 95 | 75 - 125 | 2 | 20 |
| Molybdenum | <0.00130 | | 0.200 | 0.2098 | | mg/L | | 105 | 75 - 125 | 1 | 20 |
| Selenium | <0.000960 | | 0.400 | 0.4034 | | mg/L | | 101 | 75 - 125 | 0 | 20 |
| Thallium | <0.000260 | | 0.200 | 0.1966 | | mg/L | | 98 | 75 - 125 | 0 | 20 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-331208/1-A
Matrix: Water
Analysis Batch: 331367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 331208

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|-----------|----------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Mercury | <0.000150 | | 0.000200 | 0.000150 | mg/L | | 10/11/21 11:22 | 10/12/21 10:13 | 1 |

Lab Sample ID: LCS 310-331208/2-A

Matrix: Water
Analysis Batch: 331367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 331208

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|---------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | Result | Limits |
| Mercury | 0.00167 | 0.001622 | | mg/L | | 97 | 80 - 120 | |

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-331052/1

Matrix: Water
Analysis Batch: 331052

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Total Dissolved Solids | <26.0 | | 50.0 | 26.0 | mg/L | | | 10/08/21 15:24 | 1 |

Lab Sample ID: LCS 310-331052/2

Matrix: Water
Analysis Batch: 331052

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. | |
|------------------------|-------------|------------|---------------|------|---|------|----------|--------|
| | | | | | | | Result | Limits |
| Total Dissolved Solids | 1000 | 910.0 | | mg/L | | 91 | 90 - 110 | |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

HPLC/IC

Analysis Batch: 331496

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | 9056A | |
| 310-216812-2 | MW13 | Total/NA | Water | 9056A | |
| MB 310-331496/3 | Method Blank | Total/NA | Water | 9056A | |
| LCS 310-331496/33 | Lab Control Sample | Total/NA | Water | 9056A | |

Metals

Prep Batch: 330872

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | 3010A | |
| 310-216812-2 | MW13 | Total/NA | Water | 3010A | |
| MB 310-330872/1-A | Method Blank | Total/NA | Water | 3010A | |
| LCS 310-330872/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| 310-216812-2 MS | MW13 | Total/NA | Water | 3010A | |
| 310-216812-2 MSD | MW13 | Total/NA | Water | 3010A | |

Prep Batch: 331208

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | 7470A | |
| 310-216812-2 | MW13 | Total/NA | Water | 7470A | |
| MB 310-331208/1-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 310-331208/2-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 331367

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | 7470A | 331208 |
| 310-216812-2 | MW13 | Total/NA | Water | 7470A | 331208 |
| MB 310-331208/1-A | Method Blank | Total/NA | Water | 7470A | 331208 |
| LCS 310-331208/2-A | Lab Control Sample | Total/NA | Water | 7470A | 331208 |

Analysis Batch: 332689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | 6020A | 330872 |
| 310-216812-2 | MW13 | Total/NA | Water | 6020A | 330872 |
| MB 310-330872/1-A | Method Blank | Total/NA | Water | 6020A | 330872 |
| LCS 310-330872/2-A | Lab Control Sample | Total/NA | Water | 6020A | 330872 |
| 310-216812-2 MS | MW13 | Total/NA | Water | 6020A | 330872 |
| 310-216812-2 MSD | MW13 | Total/NA | Water | 6020A | 330872 |

General Chemistry

Analysis Batch: 331052

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | SM 2540C | |
| 310-216812-2 | MW13 | Total/NA | Water | SM 2540C | |
| MB 310-331052/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 310-331052/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Eurofins TestAmerica, Cedar Falls

Lab Chronicle

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Client Sample ID: NC2MW4

Lab Sample ID: 310-216812-1

Date Collected: 10/04/21 10:53

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331496 | 10/12/21 03:23 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 18:46 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331208 | 10/11/21 11:22 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:06 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Client Sample ID: MW13

Lab Sample ID: 310-216812-2

Date Collected: 10/04/21 09:59

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 9056A | | 5 | 331496 | 10/12/21 03:39 | JNR | TAL CF |
| Total/NA | Prep | 3010A | | | 330872 | 10/08/21 09:00 | ACM2 | TAL CF |
| Total/NA | Analysis | 6020A | | 1 | 332689 | 10/22/21 18:49 | SAP | TAL CF |
| Total/NA | Prep | 7470A | | | 331208 | 10/11/21 11:22 | EAM | TAL CF |
| Total/NA | Analysis | 7470A | | 1 | 331367 | 10/12/21 11:08 | EAM | TAL CF |
| Total/NA | Analysis | SM 2540C | | 1 | 331052 | 10/08/21 15:24 | ARG | TAL CF |

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

Laboratory: Eurofins TestAmerica, Cedar Falls

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|--------------------------------|-----------------------|-----------------|
| Colorado | Petroleum Storage Tank Program | IA100001 (OR) | 09-29-22 |
| Georgia | State | IA100001 (OR) | 09-29-22 |
| Illinois | NELAP | 200024 | 11-29-21 |
| Iowa | State | 007 | 12-01-21 |
| Kansas | NELAP | E-10341 | 01-31-22 |
| Minnesota | NELAP | 019-999-319 | 12-31-21 |
| Minnesota (Petrofund) | State | 3349 | 04-06-23 |
| North Dakota | State | R-186 | 09-29-21 * |
| Oregon | NELAP | IA100001 | 09-29-22 |
| USDA | US Federal Programs | P330-19-00003 | 01-02-22 |

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

Eurofins TestAmerica, Cedar Falls

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-1

| Method | Method Description | Protocol | Laboratory |
|----------|-------------------------------|----------|------------|
| 9056A | Anions, Ion Chromatography | SW846 | TAL CF |
| 6020A | Metals (ICP/MS) | SW846 | TAL CF |
| 7470A | Mercury (CVAA) | SW846 | TAL CF |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL CF |
| 3010A | Preparation, Total Metals | SW846 | TAL CF |
| 7470A | Preparation, Mercury | SW846 | TAL CF |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CF = Eurofins TestAmerica, Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Eurofins TestAmerica, Cedar Falls

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216812-1

Login Number: 216812

List Source: Eurofins TestAmerica, Cedar Falls

List Number: 1

Creator: Muehling, Angela C

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



**Environment Testing
America**

ANALYTICAL REPORT

Eurofins TestAmerica, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Tel: (319)277-2401

Laboratory Job ID: 310-216812-2
Client Project/Site: Nebraska City Station Unit 1/2 CCR

For:
Omaha Public Power District
Attn: Accounts Payable, 4E/EP-5
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

Attn: Kyle Uhing

Authorized for release by:
11/8/2021 2:30:41 PM

Shawn Hayes, Senior Project Manager
(319)229-8211
Shawn.Hayes@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

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

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

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Case Narrative

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Job ID: 310-216812-2

Laboratory: Eurofins TestAmerica, Cedar Falls

Narrative

**Job Narrative
310-216812-2**

Comments

No additional comments.

Receipt

The samples were received on 10/7/2021 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

RAD

Method PrecSep_0: Radium-228 Prep Batch 160-530648

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW4 (310-216812-1) and MW13 (310-216812-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-530645

The following samples were prepared at a reduced aliquot due to Matrix: NC2MW4 (310-216812-1) and MW13 (310-216812-2). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

Sample Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-216812-1 | NC2MW4 | Water | 10/04/21 10:53 | 10/07/21 09:40 |
| 310-216812-2 | MW13 | Water | 10/04/21 09:59 | 10/07/21 09:40 |

Client Sample Results

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Client Sample ID: NC2MW4

Lab Sample ID: 310-216812-1

Date Collected: 10/04/21 10:53

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium-226 | 2.23 | G | 1.40 | 1.41 | 1.00 | 1.96 | pCi/L | 10/11/21 10:03 | 11/03/21 22:48 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.7 | | 40 - 110 | | | | | 10/11/21 10:03 | 11/03/21 22:48 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------------|----------------|---------|
| Radium-228 | 6.16 | G | 1.87 | 1.96 | 1.00 | 2.45 | pCi/L | 10/11/21 10:40 | 11/03/21 13:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 70.7 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:13 | 1 |
| Y Carrier | 80.7 | | 40 - 110 | | | | | 10/11/21 10:40 | 11/03/21 13:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 8.39 | | 2.34 | 2.41 | 5.00 | 2.45 | pCi/L | | 11/05/21 19:08 | 1 |

Client Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Client Sample ID: MW13

Lab Sample ID: 310-216812-2

Date Collected: 10/04/21 09:59

Matrix: Water

Date Received: 10/07/21 09:40

Method: 9315 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.419 | U | 0.375 | 0.377 | 1.00 | 0.586 | pCi/L | 10/11/21 10:03 | 11/03/21 22:48 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 91.2 | | 40 - 110 | 10/11/21 10:03 | 11/03/21 22:48 | 1 |

Method: 9320 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 1.42 | | 0.511 | 0.527 | 1.00 | 0.716 | pCi/L | 10/11/21 10:40 | 11/03/21 13:13 | 1 |

| Carrier | %Yield | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|----------------|----------------|---------|
| Ba Carrier | 91.2 | | 40 - 110 | 10/11/21 10:40 | 11/03/21 13:13 | 1 |
| Y Carrier | 81.1 | | 40 - 110 | 10/11/21 10:40 | 11/03/21 13:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Combined Radium 226 + 228 | 1.84 | | 0.634 | 0.648 | 5.00 | 0.716 | pCi/L | | 11/05/21 19:08 | 1 |

Definitions/Glossary

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Qualifiers

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

Glossary

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

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-530645/23-A
Matrix: Water
Analysis Batch: 535165

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac | |
|----------------|--------|-----------|-----------------|-----------------|------|-------|-----------------|----------------|-----------------|---------|----------------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | | |
| Radium-226 | 0.2362 | U | 0.259 | 0.260 | 1.00 | 0.418 | pCi/L | 10/11/21 10:03 | 11/04/21 08:21 | 1 | |
| Carrier | | | Limits | | | | Prepared | | Analyzed | | Dil Fac |
| Ba Carrier | 84.2 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/04/21 08:21 | | 1 |

Lab Sample ID: LCS 160-530645/1-A
Matrix: Water
Analysis Batch: 534853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. | |
|----------------|-------------|--------|---------------|-----------------|------|-------|-----------------|------|-----------------|--|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | |
| Radium-226 | 15.1 | 14.07 | | 1.80 | 1.00 | 0.489 | pCi/L | 93 | 75 - 125 | |
| Carrier | | | Limits | | | | Prepared | | Analyzed | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/04/21 08:21 | |

Lab Sample ID: LCSD 160-530645/2-A
Matrix: Water
Analysis Batch: 534853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530645

| Analyte | Spike Added | LCSD | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. | RER | Limit |
|----------------|-------------|--------|---------------|-----------------|------|-------|-----------------|------|-----------------|------|----------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | RER | Limit |
| Radium-226 | 15.1 | 13.33 | | 1.70 | 1.00 | 0.422 | pCi/L | 88 | 75 - 125 | 0.21 | 1 |
| Carrier | | | Limits | | | | Prepared | | Analyzed | | Dil Fac |
| Ba Carrier | 97.4 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/03/21 13:11 | | 1 |

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-530648/23-A
Matrix: Water
Analysis Batch: 534860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | MB MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac | |
|----------------|--------|-----------|-----------------|-----------------|------|-------|-----------------|----------------|-----------------|---------|----------------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | | |
| Radium-228 | 0.6923 | | 0.415 | 0.420 | 1.00 | 0.635 | pCi/L | 10/11/21 10:40 | 11/03/21 13:11 | 1 | |
| Carrier | | | Limits | | | | Prepared | | Analyzed | | Dil Fac |
| Ba Carrier | 84.2 | | 40 - 110 | | | | 10/11/21 10:40 | | 11/03/21 13:11 | | 1 |
| Y Carrier | 89.3 | | 40 - 110 | | | | 10/11/21 10:40 | | 11/03/21 13:11 | | 1 |

Eurofins TestAmerica, Cedar Falls

QC Sample Results

Client: Omaha Public Power District
Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

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

Lab Sample ID: LCS 160-530648/1-A
Matrix: Water
Analysis Batch: 534851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | Spike Added | LCS | LCS | Total | RL | MDC | Unit | %Rec | %Rec. | |
|----------------|-------------|--------|---------------|-----------------|------|-------|-----------------|------|-----------------|--|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | |
| Radium-228 | 12.2 | 12.37 | | 1.47 | 1.00 | 0.488 | pCi/L | 101 | 75 - 125 | |
| Carrier | | | Limits | | | | Prepared | | Analyzed | |
| Ba Carrier | 97.4 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/04/21 08:21 | |
| Y Carrier | 80.4 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/04/21 08:21 | |

Lab Sample ID: LCSD 160-530648/2-A
Matrix: Water
Analysis Batch: 535010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 530648

| Analyte | Spike Added | LCSD | LCSD | Total | RL | MDC | Unit | %Rec | %Rec. | RER | Limit |
|----------------|-------------|--------|---------------|-----------------|------|-------|-----------------|------|-----------------|------|----------------|
| | | Result | Qual | Uncert. (2σ+/-) | | | | | Limits | RER | Limit |
| Radium-228 | 12.2 | 12.80 | | 1.51 | 1.00 | 0.557 | pCi/L | 105 | 75 - 125 | 0.15 | 1 |
| Carrier | | | Limits | | | | Prepared | | Analyzed | | Dil Fac |
| Ba Carrier | 97.4 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/03/21 13:11 | | 1 |
| Y Carrier | 81.5 | | 40 - 110 | | | | 10/11/21 10:03 | | 11/03/21 13:11 | | 1 |

Eurofins TestAmerica, Cedar Falls

QC Association Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Rad

Prep Batch: 530645

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | PrecSep-21 | |
| 310-216812-2 | MW13 | Total/NA | Water | PrecSep-21 | |
| MB 160-530645/23-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-530645/1-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| LCSD 160-530645/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep-21 | |

Prep Batch: 530648

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-----------|------------|
| 310-216812-1 | NC2MW4 | Total/NA | Water | PrecSep_0 | |
| 310-216812-2 | MW13 | Total/NA | Water | PrecSep_0 | |
| MB 160-530648/23-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-530648/1-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| LCSD 160-530648/2-A | Lab Control Sample Dup | Total/NA | Water | PrecSep_0 | |

Lab Chronicle

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Client Sample ID: NC2MW4

Lab Sample ID: 310-216812-1

Date Collected: 10/04/21 10:53

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 534853 | 11/03/21 22:48 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:13 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 535296 | 11/05/21 19:08 | MLK | TAL SL |

Client Sample ID: MW13

Lab Sample ID: 310-216812-2

Date Collected: 10/04/21 09:59

Matrix: Water

Date Received: 10/07/21 09:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | PrecSep-21 | | | 530645 | 10/11/21 10:03 | BMP | TAL SL |
| Total/NA | Analysis | 9315 | | 1 | 534853 | 11/03/21 22:48 | FLC | TAL SL |
| Total/NA | Prep | PrecSep_0 | | | 530648 | 10/11/21 10:40 | BMP | TAL SL |
| Total/NA | Analysis | 9320 | | 1 | 534853 | 11/03/21 13:13 | FLC | TAL SL |
| Total/NA | Analysis | Ra226_Ra228 | | 1 | 535296 | 11/05/21 19:08 | MLK | TAL SL |

Laboratory References:

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

Accreditation/Certification Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Laboratory: Eurofins TestAmerica, St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|--------------------------|---|----------------------------|-----------------|
| Alaska (UST) | State | 20-001 | 05-06-22 |
| ANAB | Dept. of Defense ELAP | L2305 | 04-06-22 |
| ANAB | Dept. of Energy | L2305.01 | 04-06-22 |
| ANAB | ISO/IEC 17025 | L2305 | 04-06-22 |
| Arizona | State | AZ0813 | 12-08-21 |
| California | Los Angeles County Sanitation Districts | 10259 | 06-30-22 |
| California | State | 2886 | 06-30-21 * |
| Connecticut | State | PH-0241 | 03-31-23 |
| Florida | NELAP | E87689 | 06-30-22 |
| HI - RadChem Recognition | State | n/a | 06-30-22 |
| Illinois | NELAP | 200023 | 11-30-22 |
| Iowa | State | 373 | 12-01-22 |
| Kansas | NELAP | E-10236 | 10-31-21 * |
| Kentucky (DW) | State | KY90125 | 01-01-22 |
| Kentucky (WW) | State | KY90125 (Permit KY0004049) | 12-31-21 |
| Louisiana | NELAP | 04080 | 06-30-22 |
| Louisiana (DW) | State | LA011 | 12-31-21 |
| Maryland | State | 310 | 09-30-22 |
| MI - RadChem Recognition | State | 9005 | 06-30-22 |
| Missouri | State | 780 | 06-30-22 |
| Nevada | State | MO000542020-1 | 07-31-22 |
| New Jersey | NELAP | MO002 | 06-30-22 |
| New York | NELAP | 11616 | 04-01-22 |
| North Dakota | State | R-207 | 06-30-22 |
| NRC | NRC | 24-24817-01 | 12-31-22 |
| Oklahoma | State | 9997 | 08-31-22 |
| Oregon | NELAP | 4157 | 09-01-22 |
| Pennsylvania | NELAP | 68-00540 | 03-01-22 |
| South Carolina | State | 85002001 | 06-30-22 |
| Texas | NELAP | T104704193 | 07-31-22 |
| US Fish & Wildlife | US Federal Programs | 058448 | 07-31-22 |
| USDA | US Federal Programs | P330-17-00028 | 03-11-23 |
| Utah | NELAP | MO000542021-14 | 08-01-22 |
| Virginia | NELAP | 10310 | 06-14-22 |
| Washington | State | C592 | 08-30-22 |
| West Virginia DEP | State | 381 | 10-31-22 |

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

Method Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

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

Protocol References:

None = None
 SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
 TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216812-2

Login Number: 216812

List Number: 1

Creator: Muehling, Angela C

List Source: Eurofins TestAmerica, Cedar Falls

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

Login Sample Receipt Checklist

Client: Omaha Public Power District

Job Number: 310-216812-2

Login Number: 216812

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/08/21 06:18 PM

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

Tracer/Carrier Summary

Client: Omaha Public Power District
 Project/Site: Nebraska City Station Unit 1/2 CCR

Job ID: 310-216812-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Percent Yield (Acceptance Limits) | | |
|-----------------------------------|------------------------|----------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) |
| 310-216812-1 | NC2MW4 | 70.7 |
| 310-216812-2 | MW13 | 91.2 |
| LCS 160-530645/1-A | Lab Control Sample | 97.4 |
| LCSD 160-530645/2-A | Lab Control Sample Dup | 97.4 |
| MB 160-530645/23-A | Method Blank | 84.2 |

Tracer/Carrier Legend
 Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Percent Yield (Acceptance Limits) | | | |
|-----------------------------------|------------------------|----------------|---------------|
| Lab Sample ID | Client Sample ID | Ba (40-110) | Y (40-110) |
| 310-216812-1 | NC2MW4 | 70.7 | 80.7 |
| 310-216812-2 | MW13 | 91.2 | 81.1 |
| LCS 160-530648/1-A | Lab Control Sample | 97.4 | 80.4 |
| LCSD 160-530648/2-A | Lab Control Sample Dup | 97.4 | 81.5 |
| MB 160-530648/23-A | Method Blank | 84.2 | 89.3 |

Tracer/Carrier Legend
 Ba = Ba Carrier
 Y = Y Carrier





Appendix C

April 2021 & October 2021
Statistical Memo

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Technical Memorandum

Date: Friday, July 16, 2021

To: Omaha Public Power District (OPPD)

From: HDR Engineering, Inc.

Subject: Summary of Statistical Analysis and Evaluation for SSLs
Nebraska City Station NC2 Ash Disposal Area
NDEE Title 132 & Federal CCR Groundwater Monitoring Network

Omaha Public Power District operates a two-unit (Unit 1 and Unit 2) fossil fuel-fired generating plant at the Nebraska City Station, herein referenced as “Station” or “Site”. The Station is located southeast of Nebraska City, Nebraska. The Station has two existing coal combustion residuals (CCR) landfills for fossil fuel combustion ash disposal known as the NC1 Ash Disposal Area and the NC2 Ash Disposal Area. Both NC1 and NC2 Ash Disposal Areas are subject to the United States Environmental Protection Agency’s final CCR rule promulgated under U.S. Code of Federal Regulations (CFR), Title 40, Part 257 and Nebraska Department of Environment and Energy’s Title 132 regulations for fossil fuel combustion ash disposal areas. This memorandum provides a discussion and evaluation of the NC2 Ash Disposal Area. The NC2 Ash Disposal Area is a CCR landfill permitted under the Title 132 regulations for 40.7 acres. Cell 1 was constructed in 2008/2009. The NC2 Ash Disposal Area Cells 2 and 3 and West Leachate Pond were completed in January 2018. Cells 1 through 3 were constructed with a composite liner and leachate collection system.

Groundwater sampling was completed as part of an assessment monitoring program for the NC2 Ash Disposal Area in April 2021, as specified in 40 CFR §257.95(d) and Title 132 Chapter 7 Section 005.06. The statistical analysis of groundwater data was performed in accordance with the methods described in the *Groundwater Monitoring Statistical Methods Certification*, amended July 2018, and the facility’s most recent Groundwater Sampling and Analysis Plan (dated January 4, 2019; revised March 1, 2019) as permitted under Title 132. Sampling results used to calculate the background threshold values (BTVs) were obtained during monitoring events performed between March 2016 and April 2020.

Downgradient sampling results from the April 2021 assessment monitoring were used to evaluate for statistically significant increases (SSIs) over background and statistically significant levels (SSLs) over the groundwater protection standards (GWPS). The calculated BTVs and the evaluation for SSIs for the Appendix III (herein referred to as “detection monitoring”) constituents and Appendix IV (herein referred to as “assessment monitoring”) constituents are provided in **Table C-1**. The calculated lower confidence levels and the evaluation for SSLs over the GWPS for the assessment monitoring constituents are provided in **Table C-2**.



Table C-1. Summary of Assessment Monitoring Detections (April 2021)

| Well ID: | | NC2MW-2 | NC2MW-3 | NC2MW-6 | NC2MW-7 | NC2MW-8 | |
|--|--------------|---------|-------------------------------|-------------|-----------|---------------|--------------|
| Constituent | BTV (UPL): | Unit | Assessment Monitoring Results | | | | |
| Appendix III (Detection Monitoring) Constituents | | | | | | | |
| Boron | 4.63 | mg/L | 0.371 | 0.271 | 1.94 | 0.227 | 0.0894J |
| Calcium | 237 | mg/L | 235 | 141 | 90.4 | 124 | 121 |
| Chloride | 36.6 | mg/L | 24.7 | 22.7 | 3.57J | 8.69 | 11.8 |
| Fluoride | 1.28 | mg/L | 0.392J | 1.37 | <0.275 | 0.415J | 0.393J |
| pH | 6.48 – 7.92* | SU | 6.34 | 6.53 | 6.65 | 6.85 | 6.58 |
| Sulfate | 611 | mg/L | 458 | 379 | 101 | <2.45 | 7.34 |
| TDS | 1,390 | mg/L | 1,040 | 1,080 | 406 | 494 | 470 |
| Appendix IV (Assessment Monitoring) Constituents | | | | | | | |
| Antimony | 0.002 | mg/L | 0.00524 | <0.00110 | <0.00110 | <0.00110 | <0.00110 |
| Arsenic | 0.0111 | mg/L | <0.00075 | 0.00113J | <0.00075 | 0.0439 | 0.0108 |
| Barium | 0.390 | mg/L | 0.0967 | 0.113 | 0.0825 | 0.530 | 0.489 |
| Beryllium | 0.00100 | mg/L | <0.00027 | <0.00027 | <0.00027 | <0.00027 | <0.00027 |
| Cadmium | 0.000138 | mg/L | 0.000069J | 0.000068J | <0.000051 | <0.000051 | 0.0000520J |
| Chromium | 0.00500 | mg/L | <0.0011 | <0.0011 | 0.001796J | <0.0011 | <0.0011 |
| Cobalt | 0.00236 | mg/L | 0.000118J | 0.000188J | <0.000091 | 0.000384J | 0.00220 |
| Radium 226+228 | 1.97 | pCi/L | 1.01 | 0.188U | 0.436 | 1.05 | 0.615 |
| Fluoride | 1.28 | mg/L | 0.392J | 1.37 | <0.275 | 0.415J | 0.393J |
| Lead | 0.00320 | mg/L | 0.000752 | <0.00021 | 0.000264J | <0.00021 | 0.00049J |
| Lithium | 0.0423 | mg/L | 0.0311 | 0.0146 | 0.0143 | 0.0640 | 0.0340 |
| Mercury | 0.000200 | mg/L | <0.00015 | <0.00015 | <0.00015 | <0.00015 | <0.00015 |
| Molybdenum | 0.0339 | mg/L | 0.0178 | 0.00306 | 0.0207 | 0.00195J | 0.00267 |
| Selenium | 0.0238 | mg/L | 0.00641 | <0.00096 | 0.00154J | <0.00096 | 0.00142J |
| Thallium | 0.00100 | mg/L | <0.00026 | <0.00026 | <0.00026 | <0.00026 | <0.00026 |

Bold and underlined concentration indicates an SSI over background.

* indicates the lower bound of the range is the lower prediction limit (LPL). The upper bound is the upper prediction limit (UPL).

J – Value is less than the Reporting Limit but above the Method Detection Limit, therefore value is an approximation.

U – Parameter was analyzed for but not detected above limiting criteria (such as, but not limited to minimum detectable concentration; total uncertainty; reporting limit) as defined in the analytical laboratory data package.



Table C-2. Summary of Evaluation for SSLs (April 2021)

| Constituent | Well ID: | | NC2MW-2 | NC2MW-3 | NC2MW-6 | NC2MW-7 | NC2MW-8 |
|----------------|-----------------------|-------|---|---------|----------|----------------|---------|
| | GWPS ^[1] | Unit | Lower Confidence Levels – Appendix IV (Assessment Monitoring) Constituents | | | | |
| Antimony | 0.006 | mg/L | 0.003 | 0.001 | 0.001 | 0.001 | 0.001 |
| Arsenic | 0.0111 ^[2] | mg/L | 0.000989 | 0.00316 | 0.000889 | 0.0377 | 0.00977 |
| Barium | 2.0 | mg/L | 0.118 | 0.178 | 0.107 | 0.530 | 0.478 |
| Beryllium | 0.004 | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Cadmium | 0.005 | mg/L | 0.0001 | 0.00007 | 0.00006 | 0.0001 | 0.00005 |
| Chromium | 0.1 | mg/L | 0.005 | 0.005 | 0.002 | 0.005 | 0.005 |
| Cobalt | 0.006 | mg/L | 0.0001 | 0.0009 | 0.0001 | 0.0003 | 0.0016 |
| Fluoride | 4.0 | mg/L | 0.256 | 0.300 | 0.232 | 0.322 | 0.346 |
| Lead | 0.015 | mg/L | 0.00075 | 0.00016 | 0.00037 | 0.0005 | 0.0002 |
| Lithium | 0.0423 ^[2] | mg/L | 0.0262 | 0.0250 | 0.0257 | 0.05662 | 0.0297 |
| Mercury | 0.002 | mg/L | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Molybdenum | 0.1 | mg/L | 0.014 | 0.004 | 0.010 | 0.002 | 0.002 |
| Radium 226+228 | 5.0 | pCi/L | 0.65 | 0.59 | 0.43 | 0.67 | 0.57 |
| Selenium | 0.05 | mg/L | 0.001 | 0.005 | 0.002 | 0.005 | 0.001 |
| Thallium | 0.002 | mg/L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |

Bold and underlined concentration indicates an SSL over the GWPS.

[1] GWPS is established as the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) or the GWPS specified in 40 CFR §257.95(h)(2), unless otherwise specified.

[2] GWPS is established as the UPL when the background level is higher than the EPA MCL.

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Technical Memorandum

Date: Monday, January 31, 2022

To: Omaha Public Power District (OPPD)

From: HDR Engineering, Inc.

Subject: Summary of Statistical Analysis and Evaluation for SSLs
Nebraska City Station NC2 Ash Disposal Area
NDEE Title 132 & Federal CCR Groundwater Monitoring Network

Omaha Public Power District operates a two-unit (Unit 1 and Unit 2) fossil fuel-fired generating plant at the Nebraska City Station, herein referenced as “Station” or “Site”. The Station is located southeast of Nebraska City, Nebraska. The Station has two existing coal combustion residuals (CCR) landfills for fossil fuel combustion ash disposal known as the NC1 Ash Disposal Area and the NC2 Ash Disposal Area. Both NC1 and NC2 Ash Disposal Areas are subject to the United States Environmental Protection Agency’s final CCR rule promulgated under U.S. Code of Federal Regulations (CFR), Title 40, Part 257 and Nebraska Department of Environment and Energy’s Title 132 regulations for fossil fuel combustion ash disposal areas. This memorandum provides a discussion and evaluation of the NC2 Ash Disposal Area. The NC2 Ash Disposal Area is a CCR landfill permitted under the Title 132 regulations for 40.7 acres. Cell 1 was constructed in 2008/2009. The NC2 Ash Disposal Area Cells 2 and 3 and West Leachate Pond were completed in January 2018. Cells 1 through 3 were constructed with a composite liner and leachate collection system.

Groundwater sampling was completed as part of an assessment monitoring program for the NC2 Ash Disposal Area in October 2021, as specified in 40 CFR §257.95(d) and Title 132 Chapter 7 Section 005.06. The statistical analysis of groundwater data was performed in accordance with the methods described in the *Groundwater Monitoring Statistical Methods Certification*, amended December 2021, and the facility’s most recent Groundwater Sampling and Analysis Plan (dated January 4, 2019; revised March 1, 2019) as permitted under Title 132. Sampling results used to calculate the background threshold values (BTVs) were obtained during monitoring events performed between March 2016 and April 2020.

Downgradient sampling results from the October 2021 assessment monitoring were used to evaluate for statistically significant increases (SSIs) over background and statistically significant levels (SSLs) over the groundwater protection standards (GWPS). The calculated BTVs and the evaluation for SSIs for the Appendix III (herein referred to as “detection monitoring”) constituents and Appendix IV (herein referred to as “assessment monitoring”) constituents are provided in **Table C-1**. The calculated lower confidence levels and the evaluation for SSLs over the GWPS for the assessment monitoring constituents are provided in **Table C-2**.



Table C-1. Summary of Assessment Monitoring Detections (October 2021)

| Well ID: | | NC2MW-2 | NC2MW-3 | NC2MW-6 | NC2MW-7 | NC2MW-8 | |
|--|--------------|---------|-------------------------------|----------------------|--------------------|----------------------|---------------------|
| Constituent | BTV (UPL): | Unit | Assessment Monitoring Results | | | | |
| Appendix III (Detection Monitoring) Constituents | | | | | | | |
| Boron | 4.63 | mg/L | 0.668 | 0.306 | 2.48 | 0.190 | 0.107 |
| Calcium | 237 | mg/L | 183 | 139 | 123 | 118 | 130 |
| Chloride | 36.6 | mg/L | 11.6 | 12.6 | 6.30 | 9.27 | 10.3 |
| Fluoride | 1.28 | mg/L | <0.275 | 0.492J | <0.275 | <0.275 | <0.275 |
| pH | 6.48 – 7.92* | SU | 6.91 | 7.02 | 7.20 | 7.38 | 7.26 |
| Sulfate | 611 | mg/L | 266 | 292 | 132 | <2.45 | 7.47 |
| TDS | 1,390 | mg/L | 726 | 860 | 524 | 430 | 436 |
| Appendix IV (Assessment Monitoring) Constituents | | | | | | | |
| Antimony | 0.002 | mg/L | 0.000323 | <0.00110 | <0.00110 | <0.00110 | <0.00110 |
| Arsenic | 0.0111 | mg/L | 0.000907J | 0.00354 | 0.000925J | <u>0.0427</u> | 0.00958 |
| Barium | 0.390 | mg/L | 0.106 | 0.0769 | 0.133 | <u>0.592</u> | <u>0.616</u> |
| Beryllium | 0.00100 | mg/L | <0.000270 | <0.000270 | <0.000270 | <0.000270 | <0.000270 |
| Cadmium | 0.000138 | mg/L | <u>0.000287</u> | 0.0000820J | 0.0000800J | <0.0000510 | <0.0000510 |
| Chromium | 0.00500 | mg/L | <0.00110 | <0.00110 | <0.00110 | <0.00110 | <0.00110 |
| Cobalt | 0.00236 | mg/L | 0.00224 | <u>0.0115</u> | 0.000504 | 0.000253J | 0.00229 |
| Radium 226+228 | 1.97 | pCi/L | 1.92 | 0.898 | <u>4.99</u> | 1.77 | <u>2.32</u> |
| Fluoride | 1.28 | mg/L | <0.275 | 0.492J | <0.275 | <0.275 | <0.275 |
| Lead | 0.00320 | mg/L | 0.000609 | 0.000485J | 0.000719 | <0.000210 | 0.000393J |
| Lithium | 0.0423 | mg/L | 0.0247 | 0.0241 | 0.0345 | <u>0.0566</u> | 0.0340 |
| Mercury | 0.000200 | mg/L | <0.000150 | <0.000150 | <0.000150 | <0.000150 | <0.000150 |
| Molybdenum | 0.0339 | mg/L | <u>0.0505</u> | 0.00356 | 0.0124 | 0.00183J | 0.00281 |
| Selenium | 0.0238 | mg/L | 0.00128J | <0.000960 | <0.000960 | <0.000960 | <0.000960 |
| Thallium | 0.00100 | mg/L | <0.000260 | <0.000260 | <0.000260 | <0.000260 | <0.000260 |

Bold and underlined concentration indicates an SSI over background.

* indicates the lower bound of the range is the lower prediction limit (LPL). The upper bound is the upper prediction limit (UPL).

J – Value is less than the Reporting Limit but above the Method Detection Limit, therefore value is an approximation.

U – Parameter was analyzed for but not detected above limiting criteria (such as, but not limited to minimum detectable concentration; total uncertainty; reporting limit) as defined in the analytical laboratory data package.



Table C-2. Summary of Evaluation for SSLs (October 2021)

| Constituent | Well ID: | | NC2MW-2 | NC2MW-3 | NC2MW-6 | NC2MW-7 | NC2MW-8 |
|----------------|-----------------------|-------|---|----------|----------|----------------|----------|
| | GWPS ^[1] | Unit | Lower Confidence Levels – Appendix IV (Assessment Monitoring) Constituents | | | | |
| Antimony | 0.006 | mg/L | 0.003057 | 0.001 | 0.001 | 0.001 | 0.001 |
| Arsenic | 0.0111 ^[2] | mg/L | 0.000907 | 0.00285 | 0.000889 | 0.03808 | 0.01026 |
| Barium | 2.0 | mg/L | 0.1139 | 0.1574 | 0.1081 | 0.5323 | 0.4821 |
| Beryllium | 0.004 | mg/L | 0.00027 | 0.00027 | 0.00027 | 0.00027 | 0.00027 |
| Cadmium | 0.005 | mg/L | 0.00022 | 0.0001 | 0.0001 | 0.0001 | 0.000052 |
| Chromium | 0.1 | mg/L | 0.005 | 0.0011 | 0.00176 | 0.005 | 0.005 |
| Cobalt | 0.006 | mg/L | 0.000142 | 0.001073 | 0.000122 | 0.000261 | 0.001651 |
| Fluoride | 4.0 | mg/L | -0.2394 | 0.3 | 0.232 | 0.3212 | 0.3172 |
| Lead | 0.015 | mg/L | 0.000735 | 0.00035 | 0.000397 | 0.00021 | 0.000201 |
| Lithium | 0.0423 ^[2] | mg/L | 0.02719 | 0.02636 | 0.02551 | 0.05735 | 0.02956 |
| Mercury | 0.002 | mg/L | 0.00015 | 0.00015 | 0.00015 | 0.00015 | 0.00015 |
| Molybdenum | 0.1 | mg/L | 0.01482 | 0.003802 | 0.0108 | 0.001561 | 0.002443 |
| Radium 226+228 | 5.0 | pCi/L | 0.717 | 0.6264 | 0.5496 | 0.8128 | 0.64 |
| Selenium | 0.05 | mg/L | 0.00116 | 0.00096 | 0.00096 | 0.00096 | 0.00096 |
| Thallium | 0.002 | mg/L | 0.00026 | 0.00026 | 0.00026 | 0.00026 | 0.001 |

Bold and underlined concentration indicates an SSL over the GWPS.

[1] GWPS is established as the Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL) or the GWPS specified in 40 CFR §257.95(h)(2), unless otherwise specified.

[2] GWPS is established as the UPL when the background level is higher than the EPA MCL.