2021 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BOTTOM ASH POND 2

Sherburne County (Sherco) Generating Plant Becker, Minnesota

Prepared for:

Northern States Power Company, a Minnesota Corporation

January 31, 2022



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ENVIRONMENTAL \ ENGINEERING \ LAND SURVEYING

2021 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Bottom Ash Pond 2 Becker, Minnesota

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Geologist under the laws of the State of Minnesota.

Additionally, I certify that this report has been prepared to meet the requirements of § 257.90(e), Annual groundwater monitoring and corrective action report, as included in 40 CFR Part 257, Subpart D, Disposal of Coal Combustion Residuals from Electric Utilities.

LICENSED PROFESSIONAL

Signature of Preparer:

David Katzner, P.G. #57700 Carlson McCain, Inc.

Date: January 31, 2021

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APPENDICES

Appendix A – Spring 2021 Detection Monitoring Event Laboratory Report and Field Datasheets Appendix B – Fall 2021 Detection Monitoring Event Laboratory Report and Field Datasheets

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1. EXECUTIVE SUMMARY

Bottom Ash Pond 2 at the Sherburne County Generating Plant is subject to groundwater monitoring and corrective action requirements under U.S. Code of Federal Regulations, Title 40, Parts §257.90 to §257.98. Bottom Ash Pond 2 operated under the detection monitoring program in §257.94 at both the start of this annual reporting period on January 1, 2021 and at the end of the annual reporting period on December 31, 2021. Statistical analysis performed on year 2021 groundwater data indicated no statistically significant increases over background for Appendix III to 40 CFR §257 constituents pursuant to §257.94(e). As such, no additional notifications were required and Bottom Ash Pond 2 ended the current annual reporting period in detection monitoring under §257.94.

Because Bottom Ash Pond 2 operated under the detection monitoring program in §257.94 during 2021, statistical analysis to determine statistically significant levels above groundwater protection standards for one or more of the constituents listed in Appendix IV to 40 CFR §257 pursuant to §257.95(g) (i.e. assessment monitoring) was not performed. As such, no remedies were selected pursuant to §257.97 and no remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

2. INTRODUCTION

This report presents the documentation of the status of groundwater monitoring and corrective action for the year 2021 (YR2021) for Bottom Ash Pond 2 (BAP2) at the Sherburne County Generating Plant (Sherco) located in Becker, Minnesota. The BAP2 is owned and operated by Northern States Power Company, a Minnesota Corporation (NSPM).

BAP2 is an existing coal combustion residuals (CCR) impoundment and is required to comply with provisions of the U.S. Code of Federal Regulations (CFR), Title 40, Parts 257 and 261 relating to disposal of CCR from electric utilities. In particular, this report addresses the requirements of 40 CFR Section 257.90(e), annual groundwater monitoring and corrective action for YR2021.

This report has been prepared in general accordance with the reporting procedures outlined in the Sherco Bottom Ash Pond 2 CCR Groundwater Sampling and Analysis Plan (Carlson McCain, 2020b). Any deviations from the requirements of the Groundwater Sampling and Analysis Plan are described in subsequent sections of this report.

2.1 Annual Groundwater Monitoring Report Requirements

According to §257.90(e), CCR units must prepare an annual groundwater monitoring and corrective action report each year that complies with the following:

"For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1). At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available:

- (1) A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- (2) Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- (3) In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

- **(4)** A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- **(5)** Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
- (6) A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
 - (i) At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (ii) At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;
 - (iii) If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e):
 - (A) Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase; and
 - (B) Provide the date when the assessment monitoring program was initiated for the CCR unit.
 - (iv) If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to § 257.95(g) include all of the following:
 - (A) Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase;
 - (B) Provide the date when the assessment of corrective measures was initiated for the CCR unit;
 - (C) Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
 - (D) Provide the date when the assessment of corrective measures was completed for the CCR unit.
 - (v) Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection; and
 - (vi) Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

2021 CCR Annual Groundwater Monitoring Report Sherco Bottom Ash Pond 2

Section 5.4 of the CCR Groundwater Sampling and Analysis Plan (Carlson McCain, 2020b) also includes a list of items to be included in the annual report that are similar to items 1 through 5 above, with the addition of a water table contour map using data collected from the current year.

In this report, Section 3 (Site Description) briefly describes the site location and hydrogeologic setting, Section 4 (Monitoring Results) discusses the reporting requirements of the CCR Sampling and Analysis Plan and §257.90(e), and Section 5 (Discussion) summarizes key actions completed in YR2021, describes any problems reported in YR2021 and the actions to resolve the problems, and key activities projected for 2022.

3. SITE DESCRIPTION

The BAP2 is located in the City of Becker, Sherburne County, Minnesota. The BAP2 is approximately 18 acres in size and is part of a larger generating plant site. Construction of the BAP2 was completed in 2020 and no modifications to the facility have been made since. The BAP2 location is shown on Figure 1 and an aerial photograph and site layout map for BAP2 are shown on Figure 2.

3.1 Site Hydrogeology

The site hydrogeology is discussed in more detail in the Bottom Ash Pond 2 Groundwater Monitoring System Certification (Carlson McCain, 2020a), which was prepared for compliance with 40 CFR §257.91. Facility hydrogeology is briefly summarized below for convenience. Unless otherwise cited, the data presented in this section is credited to Carlson McCain, 2020a.

The Facility is located in the Anoka Sand Plain physiogeographic region. The site consists of moderate to highly permeable alluvial deposits above and below a low-permeability glacial till identified as the Superior till. Precambrian granite, the first bed rock encountered, is considered impermeable. Groundwater flows southwest beneath the Facility toward the Mississippi River, which is the regional groundwater discharge for the surficial sand and gravel aquifer. The till layer exhibits variable thickness and is absent in some locations, and no perched groundwater conditions have been identified above the till. Groundwater travel velocities are estimated at 4 to 54 feet/year.

The conceptual model for the hypothetical (or potential) release of a constituent of concern (COC) from the BAP2 focuses on groundwater as the transport mechanism. The water table beneath the BAP2 typically occurs below the Superior till. Exfiltration from BAP2 area is anticipated to move vertically downward from the base until it reaches the water table and/or till contact. If the exfiltration first contacts the till, it may flow through the till in the downgradient direction, but may also flow locally along the till contact to a zone of higher permeability within the till or a discontinuity of the till until it reaches the water table. Upon reaching the water table, a COC would likely travel mainly horizontally to the southwest and toward the Mississippi River.

4. MONITORING RESULTS

Section 4.1 below presents the monitoring results obtained during YR2021 in terms of the specific requirements of §257.90(e) that are to be included in this report.

4.1 Compliance with §257.90(e)

4.1.1 Groundwater Monitoring System (§257.90(e)(1))

The area of the BAP2 and all upgradient and downgradient monitoring well locations included in the BAP2 CCR groundwater monitoring system are shown and labeled on Figure 2. A summary of the monitoring wells included in the BAP2 CCR Groundwater Monitoring System is included in Table 1.

4.1.2 Well Installation or Decommissioning (§257.90(e)(2))

No monitoring wells that are part of the groundwater monitoring system for the BAP2 were installed or decommissioned during YR2021.

Due to excessively high field turbidity and total suspended solids in the spring monitoring event sample from well P-175, the well was redeveloped on June 2, 2021. A well development form for the redevelopment of well P-175 was placed in BAP2's operating record for compliance with §257.91(e)(1).

4.1.3 Summary of Monitoring Data (§257.90(e)(3))

Monitoring data collected during YR2021 is summarized in Tables 2 and 3 and results are provided in Tables 4 and 5. Table 2 summarizes the data collected and includes the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the samples were required by the detection monitoring (i.e. constituents listed Appendix III to 40 CFR §257, hereafter referred to as "Appendix III constituents") or assessment monitoring (i.e. constituents listed in Appendix IV of 40 CFR §257, hereafter referred to as "Appendix IV constituents") programs. Table 3 summarizes the analytical parameters and the number of times that each parameter was analyzed for each well in the groundwater monitoring system. A summary of the spring 2021 monitoring results is provided on Table 4 and a summary of the fall 2021 monitoring results is provided on Table 5.

Baseline Monitoring Data

As required by §257.94(b), a baseline data set was completed by collecting eight independent samples from each of the wells in the groundwater monitoring system from March 2 through July 30, 2020. Each of the baseline samples were analyzed for the detection monitoring/Appendix III constituents and the assessment monitoring/Appendix IV constituents. Summary data from the

eight baseline monitoring events and Laboratory reports and field datasheets for the baseline dataset are included the 2020 CCR Annual Groundwater and Corrective Action Monitoring Report (Carlson McCain, 2021).

Groundwater Elevations and Flow Direction

Groundwater elevations and flow direction in the vicinity of the BAP2 during the spring and fall of 2021 monitoring events are shown on the water table elevation contour maps in Figures 3 and 4, respectively. The contours were derived from water level measurements from the wells included in the CCR groundwater monitoring system for BAP2 along with other nearby monitoring wells and water level piezometers not included in the BAP2 CCR monitoring system. For both of the events, the flow direction was generally to the southwest. The flow direction is consistent with historical data from over 20 years of monitoring at the facility and is also consistent with the regional groundwater flow direction towards the Mississippi River.

Groundwater elevations in the vicinity of the BAP2 were low during YR2021 compared to recent years and were calculated to be approximately 0.55 feet above historic lows during the fall monitoring event. The low groundwater levels at BAP2 are consistent with drought conditions experienced throughout Minnesota during 2021. No significant changes in groundwater gradients or flow direction have been observed due to low groundwater levels in the vicinity of BAP2.

4.1.4 Transition Between Monitoring Programs (§257.90(e)(4))

No transition from the detection monitoring program to the assessment monitoring program occurred during YR2021.

4.1.5 Other Information (§257.90(e)(5))

No other information is required to be reported in this CCR Annual Groundwater Monitoring and Corrective Action Report pursuant to §257.90 through §257.98.

5. DISCUSSION

§257.90(e) states that "For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year."

Pursuant to the rule requirements, Section 5.1 below discusses the key actions completed for the groundwater monitoring program at the BAP2; Section 5.2 discusses any problems encountered with the groundwater monitoring and actions to resolve such problems; and Section 5.3 discusses key activities that may occur in the upcoming year.

5.1 Key Actions Completed

Key actions that were completed during YR2021 include the following items:

- The 2020 Annual CCR Groundwater Monitoring and Corrective Report (Carlson McCain, 2021) was completed, placed in the facility's operating record on January 28, 2021, and posted on the BAP2's publicly available website by February 27, 2021.
- Monitoring wells were sampled during the spring event conducted on May 4-5, 2021 and analyzed for all Appendix III constituents as required by §257.94(b) and (c).
- Well P-175 was redeveloped on June 2, 2021. A well development form for the redevelopment of well P-175 was placed in BAP2's operating record for compliance with §257.91(e)(1).
- Monitoring well P-175, as part of the spring monitoring event, was resampled on June 10, 2021 and analyzed for all Appendix III constituents.
- Monitoring wells, except P-152A, were sampled during the fall monitoring event conducted on November 2-4, 2021 and analyzed for all Appendix III constituents as required by §257.94(b) and (c). Well P-152A was not sampled due to low water levels and is described in Section 5.2 of this report.
- Bladder pumps installed in wells P-175, P-176 and P-177 were adjusted to lower positions in the well water columns on November 2-3, 2021. Well P-175, P-176 and P-177 pump issues and adjustments of the bladder pumps in the wells are described in Section 5.2 of this report.
- Statistical evaluation of the spring and fall monitoring event data was performed on June 21, 2021 and January 10, 2021, respectively, for compliance with §257.93(h) to determine whether a statistically significant increase has occurred for Appendix III constituents at the monitoring wells.

5.2 Problems

5.2.1 Problems Encountered

P-175 Sample Quality Issues

The sample obtained from well P-175 during the spring monitoring event on May 5, 2021 exhibited an abnormally high field turbidity of 250 NTU along with a total suspended solids (TSS) concentration of 2,280 mg/L. The abnormally high TSS was identified during data validation and the issue or inconsistency may impact the validity of the P-175 sampling data. Data validation procedures are described in Section 5.1.1 of the CCR Groundwater Sampling and Analysis Plan (Carlson McCain, 2020b). Any sample with a field turbidity result over 5 NTU or TSS detection over 5 mg/L indicates the presence of sediment that can interfere with the laboratory analysis possibly producing anomalous results of other sample constituents. As such, the spring sample from well P-175 was flagged as potentially invalid. The high field turbidity and TSS values appeared at the time to be a result of excessive sediment build up in the water column of well P-175.

Low Groundwater Level Issues

Low groundwater levels prevented a sample from being collected from well P-152A during the fall monitoring event. Attempts were made to collect a sample from the well using the dedicated bladder pump installed in the well and a non-dedicated submersible pump and associated tubing. The water level in the well was below the top of the bladder pump which prevented the bladder pump from functioning. A submersible pump generally needs at least a one-foot water column in wells for the pump to work, but only a 0.89-foot water column was present in well P-152A at the time of sampling.

P-175, P-176 and P-177 Pump Issues

Low groundwater levels also caused bladder pumps in wells P-175, P-176 and P-177 to malfunction when the wells were first attempted to be sampled for the fall monitoring event. It was identified that water levels were below the top of the bladder pumps in each of the three wells, likely causing the malfunction of the pumps. Further investigation of the issue identified that the dedicated bladder pumps in wells P-175, P-176 and P-177 were installed 4.36, 3.82 and 2.98 feet from the respective well bottoms, leaving space for the pumps to be adjusted lower in the water columns in each well.

Other Problems

No other significant problems with the groundwater monitoring system, or deviations from the CCR Groundwater Sampling and Analysis Plan were reported at the facility during YR2021. No corrective action was required at the facility during YR2021.

5.2.2 Resolution of Problems

P-175 Sample Quality Issues

To remove excessive sediment build up in the water column of well P-175, the dedicated bladder pump was removed and the well was redeveloped on June 2, 2021 using a 12-volt submersible

pump. Approximately 36 gallons of water were removed from the well and the purge water was clear after about 30 gallons were removed. Once redevelopment was complete, the bladder pump was reinstalled in the well. The well was purged and resampled on June 10, 2021 and reported low field turbidity and TSS results and other parameter concentrations appeared normal.

The June 10, 2021 resampling of well P-175 confirmed that the sample obtained on May 5, 2021 was of low quality due to excessive sediment build up in the well and; as such, the May 5, 2021 sampling data from P-175 (with the exception of the static water level and water level elevation) was invalidated and removed from the data set. The June 10, 2021 sampling data was used during YR2021 data interpretation and will also continue to be used during future data interpretation.

Low Groundwater Level Issues

Low groundwater levels prevented samples from being collected from well P-152A, an upgradient well, during the fall monitoring event and represents a data gap from the fall monitoring event.

BAP2 has five upgradient wells in the monitoring system and the minimum number of background wells BAP2 is required to have is one. Interwell statistical analysis is performed on the monitoring system wells at BAP2. Considering BAP2 has five upgradient wells to pool for interwell statistical analysis, missing data from one well for possibly several monitoring events won't significantly affect data interpretation at BAP2. Well P-152A will once again be sampled as soon groundwater levels sufficiently recover at the well location.

P-175, P-176 and P-177 Pump Issues

Since the dedicated bladder pumps in wells P-175, P-176 and P-177 had adequate space to be adjusted lower in each of the monitoring wells, adjusting the bladder pumps lower in the water columns of each of the three wells appeared to be a viable solution to the pump issues. With relatively short water columns in each of the wells, the newly targeted installation depth for the bottom of the bladder pumps in the wells was about 0.7 feet above the well bottoms to maximize the available water columns and avoid uptake of sediment during purging and sampling of the wells. On November 2-3, 2021, Carlson McCain, Inc. removed the bladder pumps from the wells, disassembled the tubing and compression fitting portion of each pump assembly, fabricated the pumps with new longer tubing at custom lengths, and re-installed the bladder pumps in their respective wells. Due the nature of the work on the bladder pumps in wells P-175, P-176 and P-177, the project manager requested that the field sampler complete the following actions prior to sampling of the wells:

• Remove the bladder pump from well P-176, purge the well with a submersible pump to remove excess sediment, and reinstall the bladder pump prior to sampling of the well. Excess sediment was observed in the well water and on the pump itself during process of deepening the bladder pump.

 Purge five well volumes from wells P-175, P-176 and P-177 to reduce the potential for crosscontamination from the handling and fabrication of the pump assemblies outside of the well environments.

Once the pump adjustment work and project manager requested actions were completed, wells P-175, P-176 and P-177 were successfully sampled on November 4, 2021 for the fall monitoring event. The November 4, 2021 samples from wells P-175, P-176 and P-177 reported reasonably low field turbidity and TSS results and other parameter concentrations appeared normal. As such, the results from the three wells were accepted and used for YR2021 data interpretation.

Other Problems

No other significant problems with the groundwater monitoring system, or deviations from the CCR Groundwater Sampling and Analysis Plan requiring resolution were reported at the facility during YR2021.

5.3 Key Activities for 2022

The following key actions are anticipated at the BAP2 in the year 2022:

- 1. Routine, semi-annual detection monitoring events at monitoring system wells are planned in the spring between March 15 and May 15, 2021 and in the fall between September 15 and November 15, 2022.
- 2. Statistical evaluation of monitoring event data for compliance with §257.93(h) to determine whether a statistically significant increase has occurred for Appendix III constituents at the monitoring wells.

6.0 REFERENCES

Carlson McCain, 2020a. CCR Groundwater Monitoring System Certification, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2020b. CCR Groundwater Sampling and Analysis Plan, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2020c. Statistical Analysis Plan, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, September 21, 2020.

Carlson McCain, 2021. 2020 CCR Annual Groundwater Monitoring and Corrective Action Report, Bottom Ash Pond 2, Sherco Generating Plant, prepared for Northern States Power Company, A Minnesota Corporation, January 28, 2021.

Tables

Table 1
CCR Groundwater Monitoring System
Bottom Ash Pond 2

	Minnesota		Loca	tion	Elevation	Screen	Elevation	Elevation		
	Unique	Date	Site Coord	inates (ft)	Top of	Length	Top of	Bottom of		Hydrologic
Well ID	Well ID	Installed	Easting	Northing	Riser Pipe	(ft)	Screen	Screen	Monitoring Status	Location
P-17	NA	8/26/81	2030284.10	866284.10	964.34	20	923	903	Routine Semi-annual	Up-Gradient
P-152A	806318	10/10/14	2031471.60	866696.40	965.87	10	934	924	Routine Semi-annual	Up-Gradient
P-158	812967	9/23/15	2029122.00	866410.00	966.55	10	927	917	Routine Semi-annual	Up-Gradient
P-173	844707	10/30/19	2029804.64	865401.54	998.49	10	928	918	Routine Semi-annual	Downgradient
P-174	844706	10/31/19	2029310.84	865400.22	1000.67	10	929	919	Routine Semi-annual	Downgradient
P-175	844705	10/31/19	2029018.22	865613.31	1002.92	10	929	919	Routine Semi-annual	Downgradient
P-176	844703	11/1/19	2029018.73	865941.35	1002.65	10	929	919	Routine Semi-annual	Downgradient
P-177	844704	11/4/19	2029567.92	866324.19	966.26	10	930	920	Routine Semi-annual	Up-Gradient
P-178A	844708	10/29/19	2030540.43	865533.40	966.46	10	929	919	Routine Semi-annual	Up-Gradient

*Notes:

Elevation is feet above mean sea level

Table 2
Summary of Data Collected
Bottom Ash Pond 2

	Upgradient Wells										
Well ID	Number of Samples	Spring 2021 ¹	Spring 2021 Resample ²	Fall 2021 ¹							
P-17	2	5/4/2021		11/2/2021							
P-152A	1	5/4/2021		NS ³							
P-158	2	5/4/2021		11/2/2021							
P-177	2	5/4/2021		11/4/2021							
P-178A	2	5/4/2021		11/2/2021							

	Downgradient Wells											
Well ID	Number of Samples	Fall 2021 ¹	Spring 2021 Resample ²	Fall 2021 ¹								
P-173	2	5/5/2021		11/2/2021								
P-174	2	5/5/2021		11/2/2021								
P-175	2	5/5/2021	6/10/2021	11/4/2021								
P-176	2	5/5/2021		11/4/2021								

¹ Sampled for detection monitoring for parameters listed in Appendix III of 40 CFR §257 as required by §257.94(a).

² Well P-175 was resampled as part of the spring detection monitoring event due to anomalous data in the original May, 2021 sample.

³ No Sample. Low groundwater levels prevented a sample from being collected from the well during the specified monitoring event.

Table 3
Count of Parameters Analyzed by Well
Bottom Ash Pond 2

		App	endix III	Parameter	s				
Parameter				Well ID ar	nd Number	of Samples	3		
rarameter	P-01A-1	P-17	P-22	P-23	P-152A	P-155	P-156	P-157	P-158
Boron, total (mg/L)	2	2	2	2	1	2	2	2	2
Calcium, total (mg/L)	2	2	2	2	1	2	2	2	2
Chloride, total (mg/L)	2	2	2	2	1	2	2	2	2
Fluoride, total (mg/L)	2	2	2	2	1	2	2	2	2
рН (lab) (рН)	2	2	2	2	1	2	2	2	2
Sulfate, total (mg/L)	2	2	2	2	1	2	2	2	2
Total Dissolved Solids (mg/L)	2	2	2	2	1	2	2	2	2

		App	endix IV I	Parameters	6				
Parameter				Well ID an	d Number	of Samples	3		
i arameter	P-01A-1	P-17	P-22	P-23	P-152A	P-155	P-156	P-157	P-158
Antimony, total (mg/L)	0	0	0	0	0	0	0	0	0
Arsenic, total (mg/L)	0	0	0	0	0	0	0	0	0
Barium, total (mg/L)	0	0	0	0	0	0	0	0	0
Beryllium, total (mg/L)	0	0	0	0	0	0	0	0	0
Cadmium,total (mg/L)	0	0	0	0	0	0	0	0	0
Chromium, total (mg/L)	0	0	0	0	0	0	0	0	0
Cobalt, total (mg/L)	0	0	0	0	0	0	0	0	0
Fluoride, total (mg/L)	0	0	0	0	0	0	0	0	0
Lead, total (mg/L)	0	0	0	0	0	0	0	0	0
Lithium Total (mg/L)	0	0	0	0	0	0	0	0	0
Mercury, total (mg/L)	0	0	0	0	0	0	0	0	0
Molybdenum, total (mg/L)	0	0	0	0	0	0	0	0	0
Selenium, total (mg/L)	0	0	0	0	0	0	0	0	0
Thallium, total (mg/L)	0	0	0	0	0	0	0	0	0
Radium, 226 and 228 combined (pCi/L)	0	0	0	0	0	0	0	0	0

Table 4
Spring 2021 Groundwater Summary Data
Bottom Ash Pond 2

				Appe	ndix III Pai	rameters					
						Well II	D and Samp	le Date			
Parameter	Units	GWPS	P-17	P-152A	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			5/4/2021	5/4/2021	5/4/2021	5/5/2021	5/5/2021	6/10/2021	5/5/2021	5/4/2021	5/4/2021
Boron, total	mg/L	NA	< 0.0500	< 0.0500	0.561	0.163	0.224	0.161	0.729	0.0946	0.109
Calcium, total	mg/L	NA	65.4	57.2	88.4	68.5	100	84.6	79.4	71.4	32.3
Chloride, total	mg/L	NA	11.4	3.45	7.67	6.3	1.4	7.52	3.33	2.08	2.85
Fluoride, total	mg/L	NA	< 0.7500	< 0.7500	< 0.7500	< 0.7500	< 0.7500	<0.7500	< 0.7500	< 0.7500	< 0.7500
pH, Lab	pН	NA	7.85	7.92	7.8	7.96	7.75	7.88	7.95	7.74	8.02
Sulfate, total	mg/L	NA	18.3	16.1	107	25.1	48.8	66.3	64.8	22.3	37.6
Total Dissolved Solids	mg/L	NA	280	236	402	290	422	342	348	270	240

				Fie	eld Param	eters								
				Well ID and Sample Date										
Parameter	Units	GWPS	P-17	P-152A	P-158	P-173	P-174	P-175	P-176	P-177	P-178A			
			5/4/2021	5/4/2021	5/4/2021	5/5/2021	5/5/2021	6/10/2021	5/5/2021	5/4/2021	5/4/2021			
ORP	mV	NA	173	154	153	173	173	256	175	131	165			
Oxygen, dissolved	mg/L	NA	9.3	9.3	9.8	9	8.6	10.5	9.3	8.1	8.2			
pH, field	pН	NA	8	7.9	7.8	7.9	7.8	8.6	8	7.6	7.9			
Specific Cond, field	µmhos/cm	NA	480	370	860	500	604	250	650	520	450			
Static Water Level	ft	NA	38.44	39.21	40.97	72.75	75.28	77.74	77.26	40.46	40.46			
Temperature	degrees C	NA	8.5	9.6	9.6	9.5	9.6	16.4	10.3	10.6	10.3			
Turbidity, field	NTU	NA	1	1	0.9	2	2.5	3.7	9.1	4	1			
Water Level Elevation	ft	NA	925.9	926.66	925.58	925.74	925.39	925.18	925.39	925.8	926			

GWPS = Groundwater Protection Standard

NA = Not Applicable

Two dashed lines = Not Analyzed

Downgradient Well

Table 5
Fall 2021 Groundwater Summary Data
Bottom Ash Pond 2

				Appe	ndix III Pai	ameters								
				Well ID and Sample Date										
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A			
			11/2/2021	11/2/2021	11/2/2021	11/2/2021	11/2/2021	11/4/2021	11/4/2021	11/4/2021	11/2/2021			
Boron, total	mg/L	NA	< 0.0500		0.853	0.134	0.166	0.189	0.478	0.0976	0.201			
Calcium, total	mg/L	NA	64		103	71.9	82.8	68.8	78.2	66.5	38.5			
Chloride, total	mg/L	NA	15.1		9.04	5.67	<1.000	2.31	3.59	2.08	3.4			
Fluoride, total	mg/L	NA	< 0.7500		<0.7500	< 0.7500	<0.7500	< 0.7500	<0.7500	< 0.7500	< 0.7500			
pH, Lab	pН	NA	7.78		7.71	7.78	7.68	7.73	7.68	7.71	7.89			
Sulfate, total	mg/L	NA	18.9		120	26	23.3	26	66	28.1	44.4			
Total Dissolved Solids	mg/L	NA	290		488	288	334	266	370	282	268			

				Fie	eld Param	eters					
						Well II	and Samp	ole Date			
Parameter	Units	GWPS	P-17	P-152A ¹	P-158	P-173	P-174	P-175	P-176	P-177	P-178A
			11/2/2021	11/2/2021	11/2/2021	11/2/2021	11/2/2021	11/4/2021	11/4/2021	11/4/2021	11/2/2021
ORP	mV	NA	183		201	191	197	157	160	203	190
Oxygen, dissolved	mg/L	NA	6.4		8.2	7.7	8	7.1	7.5	10.3	7.3
pH, field	pН	NA	7.8		7.4	7.5	7.3	7.6	7.5	7.5	7.6
Specific Cond, field	μmhos/cm	NA	500		780	540	610	460	590	510	510
Static Water Level	ft	NA	40.64	41.46	42.94	75.07	77.48	79.82	79.3	42.6	42.8
Temperature	degrees C	NA	9.8		10.2	9.2	9.7	11.1	12.3	11.1	9.9
Turbidity, field	NTU	NA	1.1		1.4	1.9	2.3	15	2.9	2.7	2
Water Level Elevation	ft	NA	923.7	924.41	923.61	923.42	923.19	923.1	923.35	923.66	923.66

GWPS = Groundwater Protection Standard

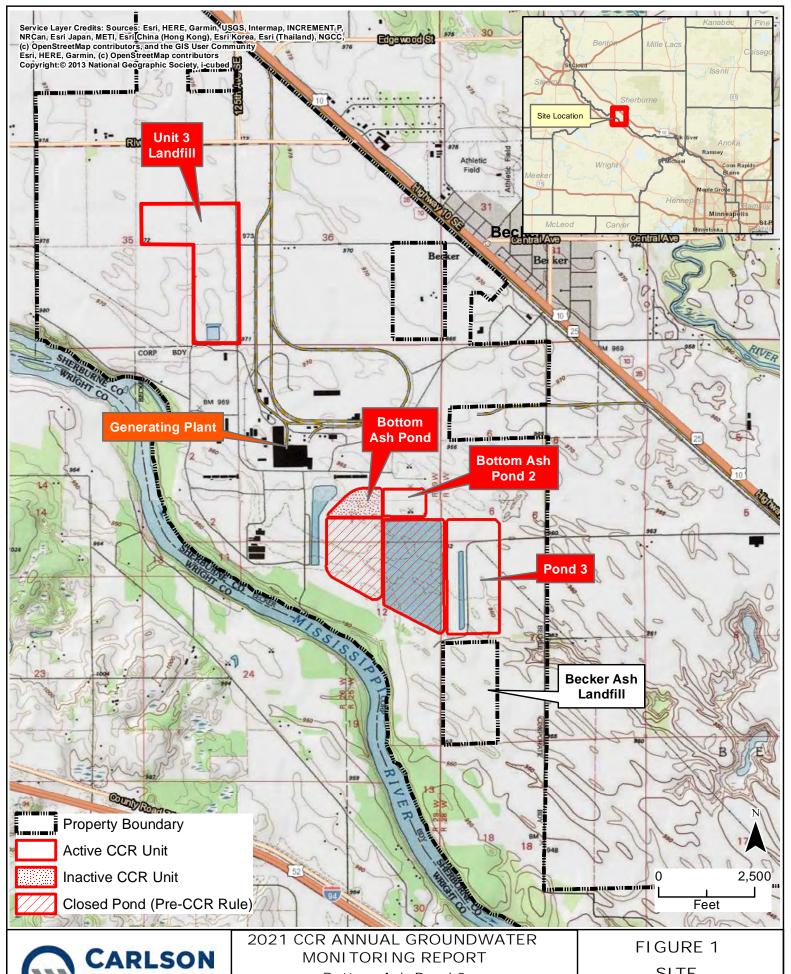
NA = Not Applicable

Two dashed lines = Not Analyzed

Downgradient Well

 $^{^{1}}$ Low groundwater levels prevented a sample from being collected from the well on the specified date.

Figures

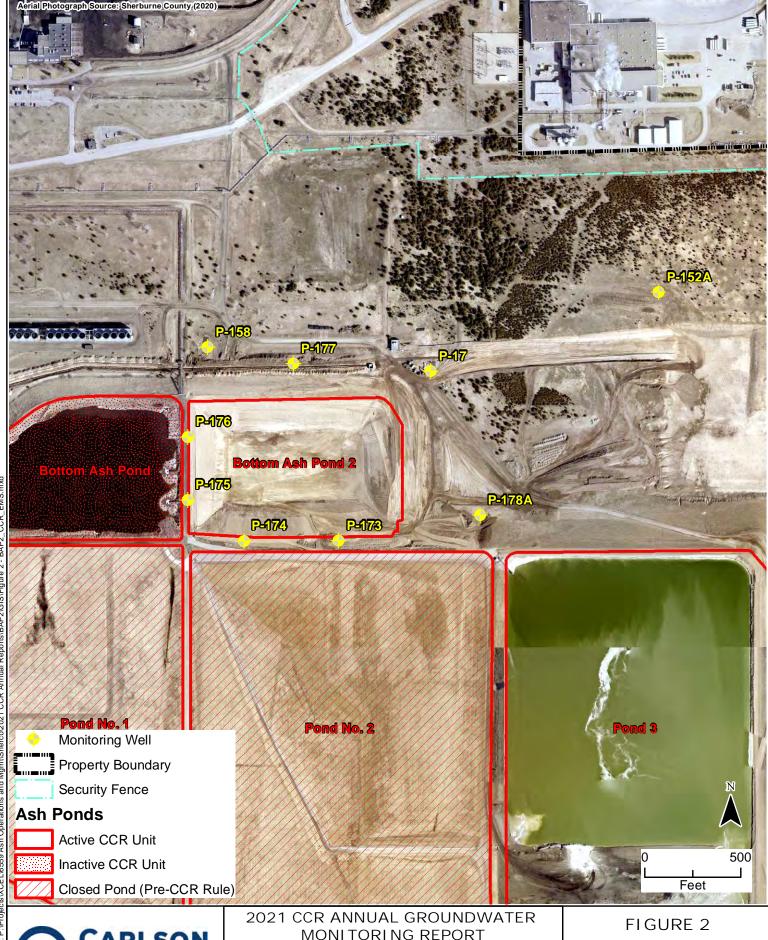




Bottom Ash Pond 2

Sherburne County Generating Plant Becker, Minnesota

SITE LOCATION MAP





2021 CCR ANNUAL GROUNDWATER
MONITORING REPORT
Bottom Ash Pond 2
Sherburne County Generating Plant

Becker, Minnesota

CCR GROUNDWATER MONITORING SYSTEM





2021 CCR ANNUAL GROUNDWATER MONITORING REPORT Bottom Ash Pond 2

Sherburne County Generating Plant Becker, Minnesota

FIGURE 3
WATER TABLE
ELEVATION CONTOUR
MAP (05/03/2021)





2021 CCR ANNUAL GROUNDWATER MONITORING REPORT Bottom Ash Pond 2

Sherburne County Generating Plant Becker, Minnesota FIGURE 4
WATER TABLE
ELEVATION CONTOUR
MAP (11/01/2021)

Appendix A

Spring 2021 Detection Monitoring Event Field Datasheets and Laboratory Reports



	Monitorir	ng Point ID	217						17-04548
wen beschipton and rresampling information		e Diameter	2	(inches)	Key# 210	,	Locked		Not Locked
					1, 2, 2, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,		1 10		Not Locked
	Casin	g Material:	☑ PVC		eel [Stainless S			
		L	epth Measi	irement a	and Elevation			casing)	
					Top of Casin			,	Feet
		Statio wat	tor lovel moon	iromont ho		Well Depth			Feet
	St				fore purging (S of sampling (F				Feet Feet
	0.0	alic water le			Elevation Befo				Feet
	Purae Me	thod Bladd		vator Lovo	Lievation ben	ore i diging	Pump ID	BPC-1	. 1 000
	Date Pu		5/4/21			Wa	ter Column	20.32	Feet
	Time Pu		258-1358			One Cas	ing Volume		Gallons
	Pump I	Rate	0.2		GPM) LPM	Volu	me Purged	. 12	Gallons
Ī	Date	e Sampled	5/4/21		Field F	aramete	r Measure	ments of	Sample
		e Sampled	1400		рН	8.0	(units)	D.O	4.3 (mg/l)
		ling Equip.			Spec. Cond.	480	- (μmhos/cm)	Turbidity	1.0 (NTU)
		Meter ID	MPS- 7 TI	n-G Te	emp. Observed	8.4	(°C)	Eh	173 (mV)
	А	nalyzed by	CSP	-	mp. Corrected	8.5	(°C)	Other	NA
_			ements Temp.			Yes	☐ No	□ NA	
	Samp	le for Solubl Tempe	le Metals Filter erature Correc	ed in Field: tion Factor:	+0.1 °C	Yes	☐ No	□ NA □ NA	
	Samp Weather C	le for Solubl Tempe onditions Du	le Metals Filter erature Correc uring Sampling	red in Field: tion Factor: g:	+0.1 °C	J NW @	□ No 15mph		
	Samp Weather C Sample D	le for Solubl Tempe onditions Du	e Metals Filter erature Correc uring Sampling د سام	red in Field: tion Factor: g: <u>54°F</u>	+0.1 °C	J NW @	□ No 15mph		
_	Samp Weather C Sample D	le for Solubl Tempe conditions Do escription: _ servations: _	e Metals Filter erature Correc uring Sampling د سام	red in Field: tion Factor: g: <u>54°F</u>	to 1 °C	J NW @	□ No 15mph		•
	Samp Weather C Sample D Obs	le for Solubl Tempe conditions Do escription: _ servations: _	e Metals Filter erature Correcturing Sampling	red in Field: tion Factor: g: Str	to 1 °C sunny wn	J NW @	□ No 15~ph Turbidity	NA NA	Volume Purged (cumulative gal)
	Samp Weather C Sample D Obs	le for Solubl Tempe conditions Du escription: _ servations: _	e Metals Filter erature Correc uring Sampling clu————————————————————————————————————	red in Field: tion Factor: g: Str	+0.1°C	D.O. (mg/l)	□ No 15mph	Eh (mV)	Volume Purged (cumulative gal)
	Samp Weather C Sample D Obs B-S Time	le for Solubl Tempe conditions Do escription: _ servations: _	e Metals Filter erature Correcturing Sampling	red in Field: tion Factor: 3: 54°F ductance (cm)	Temp (°C) (observed) 8. 4	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time 13/8 /338	le for Solubl Tempe conditions Du escription: _ servations: _ pH (units) 8.0	Per Metals Filter erature Correcturing Sampling Lu N/A Specifc Con (μmhos) 480	red in Field: tion Factor: 54 F	Temp (°C) (observed) 8. 4 8. 4	D.O. (mg/l) 9, 4 9, 3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time	le for Solubl Tempe conditions Du escription: _ servations: _ pH (units)	e Metals Filter erature Correcturing Sampling	red in Field: tion Factor: 54 F	Temp (°C) (observed) 8. 4	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time 13/8 /338	le for Solubl Tempe conditions Du escription: _ servations: _ pH (units) 8.0	Per Metals Filter erature Correcturing Sampling Lu N/A Specifc Con (μmhos) 480	red in Field: tion Factor: 54 F	Temp (°C) (observed) 8. 4 8. 4	D.O. (mg/l) 9, 4 9.3 9.3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time 13/8 /338	le for Solubl Tempe conditions Du escription: _ servations: _ pH (units) 8.0	Per Metals Filter erature Correcturing Sampling Lu N/A Specifc Con (μmhos) 480	red in Field: tion Factor: 54 F	Temp (°C) (observed) 8. 4 8. 4	D.O. (mg/l) 9, 4 9, 3 9, 3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time 13/8 /338	le for Solubl Tempe conditions Du escription: _ servations: _ pH (units) 8.0	Per Metals Filter erature Correcturing Sampling Lu N/A Specifc Con (μmhos) 480	red in Field: tion Factor: 54 F	Temp (°C) (observed) 8. 4 8. 4	D.O. (mg/l) 9, 4 9, 3 9, 3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
2001 100000	Samp Weather C Sample D Obs B-S Time 13/8 /338	pH (units)	Per Metals Filter erature Correcturing Sampling Lu N/A Specifc Con (μmhos) 480	ductance	Temp (°C) (observed) 8. 4 8. 4 8. 4	D.O. (mg/l) 9, 4 9, 3 9, 3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
	Samp Weather C Sample D Obs B-S Time 13/8 /338	le for Soluble Temps conditions Dubescription: _servations:	Per Metals Filter erature Correcturing Sampling Clu———— N/A Specifc Con (μmhos) 480 480	ductance	Temp (°C) (observed) 8. 4 8. 4 8. 4	D.O. (mg/l) 9.4 9.3 9.3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
Sai	Sample Dobs Sample Dobs B-S Time 13/8 1338 1358	le for Soluble Temps conditions Dubescription:servations:	Per Metals Filter erature Correcturing Sampling Clu———— N/A Specifc Con (μmhos) 480 480	red in Field: tion Factor: 54°F ductance (cm)	Temp (°C) (observed) 8. 4 8. 4 8. 4 Yes Oth	D.O. (mg/l) 9.4 9.3 9.3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal)
Samme	Samp Weather C Sample D Obs B-S Time 13/8 1338 1358	le for Soluble Temps conditions Dubescription:servations:	Specific Con (µmhos) 480 480	red in Field: tion Factor: 54°F ductance (cm)	Temp (°C) (observed) 8. 4 8. 4 8. 4 Yes Oth	D.O. (mg/l) 9.4 9.3 9.3	Turbidity (NTU) 1.2 1.0	Eh (mV) 174 173	(cumulative gal) 4 8 12



rresampling information	ALC 1	pherco		reite intas	Spring 2	21 10,00	t No.	
	Monitoring Poin	tID 7-152 A				Lat	peled P	152A
	Inside Diame	eter 2	(inches) K	ey# 2101	2	Locked		Not Locked
,	Casing Mate	rial: 🔀 PVC	☐ Steel		Stainless St	eel		
	*	Depth Meas	surement an	d Elevation	s (from to	op of well	casing)	*
				Top of Casing	Elevation	NA		_Feet
		San Arabine	na a le disco			42.18		
	10000	c water level mea					.21	Feet Feet
	Static wa	ter level measure	Water Level E				-1	Feet
Ì	Purae Method i	Dedicated Bladde		icvation belon	c r diging	Pump ID	BPC-1	_, σσι
	Date Purged	3/4/21	10114		Wat	er Column	ALC: MITH	Feet
		1215 - 1245			One Casi	ng Volume _	1.61	Gallons
۱	Pump Rate	W-15"	0.2	PMy LPM	Volum	me Purged _	Ce	Gallons
1	Date Samp	oled 5/4/11		Field P	arameter	Measure	ments of	Sample
	Time Samp			рН	7.9	(units)	D.C	9.3 (mg/l)
	Sampling Eq	uip. Pump	=	Spec. Cond.	370	(µmhos/cm)	Turbidity	(NTU)
	Mete	rID MPS-7 T	<u>м-</u> ų Tem	p. Observed	9.5	(°C)	Eh	1_/54(mV)
	Analyzed	d by CSP	Tem	p. Corrected	9.6	(°C)	Othe	NA
Fred Sampung	T Weather Conditio		ection Factor: _ ng:54°F	+0.1 °C			M NA	
		tion: Clum	no o der					
	Observation	1177						
			1					• •
		* Radium Collect						
111	Time ph	H Specifc Co	onductance	Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
100	l n	H Specifc Co	onductance os/cm)					
JIII I COL	Time ph	H Specifc Co (μmho	onductance os/cm)	(observed)	(mg/l)	(NTU)	(mV)	(cumulative gal)
duon rest	Time ph (uni	H Specifc Co (μmho 9 37	onductance os/cm)	(observed)	(mg/l) 1. 3 9. 3	(NTU)	(mV) 156	` 2
Dilization lest	Time ph (uni	H Specifc Co (μmho 9 37	onductance os/cm)	(observed) 9.5 9.5	(mg/l) 1. 3	(NTU) /. 0 /. 0	(mV) 156 155	(cumulative gal)
Stabilization rest	Time ph (uni	H Specifc Co (μmho 9 37	onductance os/cm)	(observed) 9,5 9,5 9,5	(mg/l) 1. 3 9. 3	(NTU) /. 0 /. 0	(mV) 156 155	(cumulative gal)
Stabilization rest	Time ph (uni	H Specifc Co (μmho 9 37	onductance os/cm)	(observed) 9.5 9.5	(mg/l) 1. 3 9. 3	(NTU) /. 0 /. 0	(mV) 156 155	(cumulative gal)
	Time ph (uni 1225 7.1235 7.1245 7.0	Fig. 1. Specific Co (μmho (μm	onductance os/cm)	(observed) 9,5 9,5 9,5	(mg/l) 1.3 9.3	(NTU) /. 0 /. 0	(mV) 156 155	(cumulative gal)
s	Time ph (uni	Fig. 1. Specific Co (μmho (μm	onductance os/cm)	(observed) 9,5 9,5 9,5	(mg/l) 1.3 9.3	(NTU) /. 0 /. 0	(mV) 156 155	(cumulative gal)
orn	Time ph (uni 1225 7.9 1235 7.9 1245 7.9	H Specifc Co (μmho 9 3.7 9 3.7 0 3.7 0 Iiiately after collection	onductance os/cm)	(observed) 9.5 9.5 9.5 9.5 Yes Oth	(mg/l) 1.3 9.3 9.3	(NTU) /. 0 /. 0 /. 0	(mV) 156 155	(cumulative gal)
S	Time ph (uni 1225 7.9 1235 7.9 1245 7.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2	H Specifc Co (μmho 9 3.7 9 3.7 0 3.7 0 Iiiately after collection	onductance os/cm)	(observed) 9.5 9.5 9.5 9.5 Yes Oth	(mg/l) 1.3 9.3	(NTU) /. 0 /. 0 /. 0	(mV) 156 155	(cumulative gal)



uo	Client Xi	el Shere	10	Projec	ct Shereo	Pends	Spring 2	Lo 21 Projec	t No 2\	-0454	3	
mati	Monitorin	g Point ID	P-158					Lal	beled 8	12967		
for	Inside	Diameter	2	(inches)	Key#	2100		Locked		Not Locke	ed	
Presampling Information	Casing	Material:	PVC		Steel		Stainless S	Steel				
ildu		D	epth Measi	urement	and Ele	vation	s (from t	op of well	casing)	à.		
san	Top of Casing Elevation Feet											
Ĕ	Total Well Depth 49.16 Feet											
and	Static water level measurement before purging (Start Depth) 4097 Feet											
6	Static water level measurement at time of sampling (Final Depth) 40.97 Feet											
ıptı	4	2)			el Elevation	on Befo	re Purging		000	Feet		
SCI	Purge Met		older Pump		_			Pump ID_	BPC-1			
ă	Date Pur		5/4/21		-			ter Column		Fe		
Well Description and	Time Pur		50 - 1611		-600			ing Volume			llons	
	Pump R	ate	0.2		(GPM)	LPM	Volu	ıme Purged _	. 4.2	Ga	llons	
	Date	Sampled_	5/4/21		F	ield P	aramete	r Measure	ments of	Sample	9	
	Time Sampled 1615					pH.	7.8	_(units)	D.O	9.8	_ (mg/l)	
Data	Sampling Equip. Pump				Spec.	Cond.	860	(µmhos/cm)	Turbidity	0.9	_(NTU)	
		1-6 7	Temp. Ob:	served	9,5	_(°C)	Eh	153	_ (mV)			
g D	Ar	alyzed by _	CSF	_	Temp. Cor	rected	7.6	_(°C)	Other	NA		
Field Sampling	Sample for Soluble Metals Filtered in Field:											
	Sample Description:											
	B-5	ervations		N87 719	UPLICATE COLLECTED AT THIS WELL BAPZ RINSE COLLECTED 16							
	Time	pH (units)	Specifc Cor (µmhos		(obse	o (°C) rved)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)		e Purged ative gal)	
est	1557	7.8	86	0	10	5 9.5	9.9	1.0	153	٠). د	1	
l uc	1604	78	86	0	2	5	29	1.0	152	2.	8	
Stabilization Test	1611	78	84	0	0	15	9.8	0.9	153	3-1	5/4/2 4.2	
billi					0/1							
Sta					a	AFIC						
						SHU						
					27	144		1				
	Revised: 01/25/20		after collection		Yes	Oth	er					
			A. A	4		3	A 1 5	. 1				
Nam	e/Affiliation of	Sampler(s): _	Chris Peli	51	1	face	Analyt	icul				
i	ead Techniciar	Signature:	11/2	Mo	1			Date:	5/4/2	t.		
	odd Toorilloldi	. orginature.	Co	11					- 11			



6	Client XL	el Shere	0	Projec	t Sherco	Pends,	Spring 2	021 Projec	t No.	21-	04548	
mati	Monitoring	g Point ID _	P-173					La	beled_	84	4707	
	Inside	Diameter	2	(inches)	Key#_	2101	2	\ Locked	d	\square N	lot Locked	d
= 5	Casing	Material:	ĭ PVC	☐ St	teel		Stainless S	steel				
		De	epth Measu	rement a	and Ele	vation	s (from t	op of well	casin	g)		
Monitoring Point ID P-173 Labeled 84470											eet	
Ĭ	Total Well Depth 80.30 Feet											red States
Static water level measurement before purging (Start Depth) 72.75 Feet (DK
	Static water level measurement at time of sampling (Final Depth) 72.75 Feet Static Water Level Elevation Before Purging Feet											
1	Purge Met	nod Blad	er Pune	valer Leve	ei Elevatic	n belo	e ruiging	Pump ID	BPC	-	CCI	
B	Date Pur		15/21		-		Wa	ter Column			Fee	t
Ē	Time Pur		10 - 931				One Cas	ing Volume	1.2	3	Gall	ons
	Pump R	ate	0.2		_GPM/I	LPM	Volu	ime Purged	4	.2	Gall	ons
	Date	Sampled	5/5/21		F	ield P	aramete	r Measure	ment	s of S	Sample	
		Sampled				рН	7.9	(units)		D.O_	9.0	(mg/l)
	Sampli	ng Equip.	Pump		Spec. Cond. 500 (µm				Turb	idity_	2.0	(NTU)
Data									Eh_	173	(mV)	
	Analyzed by <u>CSP</u> Temp. Corrected <u>9.5</u> (°C) Other <u>N/A</u>											
Sampling	Field Measurements Temp. Corrected: X Yes No NA Sample for Soluble Metals Filtered in Field: Yes No NA											
0	Temperature Correction Factor: +0·1 °C											
Field	Weather Conditions During Sampling: 43°F Sunny was Ge Inch											
	Sample Description: (Ler no ado C											
	Observations: NA											
	-	* Radice										
	Time	pH (units)	Specifc Con (µmhos		Temp (obse		D.O. (mg/l)	Turbidity (NTU)	Er (m)	7	Volume (cumula	Purged tive gal)
Š	917	7.9	500		9.4		9.3	2.6	173	3	1.4	
	924	7.9	500		9.4	(9.2	2.0	173		2.8	
e de la	931	7.9	500		9.4	j	9.0	2.0	173		4.2	
Stabilization lest												
3						(W),						
						5/5/	ų					
0	amples chilled	immediately a	fler collection		V voc [Oth	or					
	Revised: 01/25/20		nor concention.		Yes		51					
			A D .			2	Analyt	1.55				
alf	e/Affiliation of	Gampier(s): _	UNIS rela	10		Jener	Mary	16 Cm 1				
	ead Technician	Signature:	(On	1/1/2	1			Date:	5	15/21		



wen bescription and Presampling information	Client Xi	el Sherc	0	_ Proje	ct Sherco	Pends	Spanis	2021 Projec	t No. 21.	04548		
	Monitorin	g Point ID _	P-174					La	beled &	14706		
	Inside	Diameter _	2	(inches)	Key#	2101	2	X Locked	d .	Not Locked		
,	Casing	Material:	N PVC		Steel		Stainless	Steel				
1		De	epth Meas	urement	and Ele	vation	s (from	top of well	casing)			
					Top of			n NA		Feet		
	Total Well Depth 82.21 Feet Feet Static water level measurement before purging (Start Depth) 75.28 Feet											
	Sta							75.2		Feet C wy DK -		
	Ote	tile water jev			el Elevation					Feet		
ğ	Purge Met	hod Blud	Der Pump	A				Pump ID	BPC-1			
			5/5/21		_			ater Column		Feet		
ı		-	15 - 100	3	-			sing Volume	1.14	Gallons		
	Pump F	Rate	0.2		(GPM)	LPM	Vol	ume Purged	3.6	Gallons		
1	Date	Sampled _	515/21		F	ield P	aramete	er Measure	ments of	Sample		
	Time Sampled 1005					pH 7.8 (units) Spec. Cond. 640 (µmhos/cm)				D.O 8.6 (mg/l)		
	Sampling Equip. Park				Spec.	2.5 (NTU)						
	Meter ID MPS - 7 TM-6				Temp. Ob		9.5	_(°C)	Eh			
		nalyzed by _			Гетр. Со			_(°C)		NA		
reid Sampinig	Field Measurements Temp. Corrected: Sample for Soluble Metals Filtered in Field: Yes No NA NA											
5	Temperature Correction Factor: +0.\ °C											
	Weather Conditions During Sampling: 45 F sunny w E@ 1 mgh											
	Sample Description: cler no eder											
	Observations: NA											
1		* Radium	\									
	Time	pH (units)	Specifc Cor			p (°C) erved)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)		
	951	7.8	640	•	9,	5	8.6	5.7	176	1.2		
	957	7.8	640		9.	5	8.6	5.0	175	2.4		
	1003	7.8	641	>	9	5	8.6	2.5	173	3.6		
סומחווקמנוחוו ובפר												
Š						(NA)						
						Sishi						
9-	imples chilled	immediately a	after collection		X Yes	Oth	er					
	Revised 01/25/20		and collection		✓ 1e2	Our	GI .					
m	e/Affiliation of	Sampler(s):	Char Dal			Para	Analy	6.1				
113	on unitation of	campion(8).	17 1	110		Jack	J HILLY	116601				
	ead Technicia	Signature:	1/2	4/11				Date:	5/5/2	1		



	Inside Casing Sta Purge Meti Date Purg Time Purg Pump R Date Time	Static water level and Static water level water level and Static water level w	epth Measurement er level measurement vel measurement at tin Static Water Lev	Steel t and Elev Top of (/ations Casing Total V ing (Staing)	Stainless S s (from t Elevation Vell Depth art Depth)	Locked teel op of well of 84.11 77.6	casing)	Feet (purphettern 79)	
į	Casing Sta Purge Metl Date Purg Time Purg Pump R Date Time	Static water level and Slubbaged 10 ate	PVC □ epth Measurement er level measurement vel measurement at tin Static Water Lever France S15 121	Steel t and Elev Top of (before purgine of sampli	/ations Casing Total V ing (Staing)	Stainless S s (from t Elevation Vell Depth art Depth)	op of well on the second secon	casing)	Feet (pump bettern 7 Feet (minum) 5/3/11/ Feet (minum) 5/3/11/	
ı	Sta Purge Metl Date Pur Time Pur Pump R Date Time	Static water level and Blad ged 10 ate	epth Measurement er level measurement vel measurement at tin Static Water Lever Pump S15 121	Top of Control Top of Control before purging of sampli	vations Casing Total V ing (Stailing)	s (from t Elevation Vell Depth art Depth)	op of well on	8	Feet (purpletten 7 Feet (mound state) Feet (by DK	
f	Purge Metl Date Purg Time Purg Pump R Date Time	Static water level of the water	er level measurement vel measurement at tin Static Water Lev ช ใบคุด ราราน	Top of 0 before purgi ne of sampli	Casing Total V ing (Staing (Fir	Elevation Vell Depth art Depth) nal Depth)	84.11 77.6	8	Feet (purpletten 7 Feet (mound state) Feet (by DK	
f	Purge Metl Date Purg Time Purg Pump R Date Time	tic water level and BluD ged 200 ate	vel measurement at tin Static Water Lev ช ใบคค S IS 121 IS = 1033	before purgi ne of sampli	Total V ing (Staing (Fir	Vell Depth art Depth) nal Depth)	84.11 77.6 77.6	8	Feet (purpletten 7 Feet (mound state) Feet (by DK	
ł	Purge Metl Date Purg Time Purg Pump R Date Time	tic water level and BluD ged 200 ate	vel measurement at tin Static Water Lev ช ใบคค S IS 121 IS = 1033	before purgi ne of sampli	ing (Sta	art Depth) nal Depth)	77.6	8	Feet (MADK	
-	Purge Metl Date Purg Time Purg Pump R Date Time	tic water level and BluD ged 200 ate	vel measurement at tin Static Water Lev ช ใบคค S IS 121 IS = 1033	ne of sampli	ing (Fir	nal Depth)	77.6			
	Purge Metl Date Purg Time Purg Pump R Date Time	nod BluW ged ged	Static Water Lever Pump 515 121 15 - 1033					0	1 001	
	Date Pury Time Pury Pump R Date	ged // // // // // // // ate	er Pump 515/21 15-1033	=		33	1417		Feet	
	Time Purp Pump R Date Time	ged 10	15 - 1033	=			Pump ID	BPC-1	-	
	Pump R Date Time	ate				Wa	ter Column _	6.43	Feet	
	Date Time		0.2	-			ing Volume _	1.04	Gallons	
	Time	Campled		GPM)L	.PM	Volu	me Purged _	3.6	Gallons	
		Sampled	5/5/21	Fi	ield Pa	aramete	r Measurer	ments of	Sample	
		Sampled _	1035		pH_	7.9	(units)	D.O	8.1 (mg/l)	
	Sampli	ng Equip	Pump	Spec. Cond. 290 (µmhos/cm) Turbidity 250						
		Meter ID _	MPS-7 TM-6							
	Analyzed by Corrected 10.3 (°C) Other NA Field Measurements Temp. Corrected: X Yes No NA									
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Sample for Soluble Metals Filtered in Field: Temperature Correction Factor: +0al °C Weather Conditions During Sampling: 50°F sunny on NE @ largh Sample Description: Clause brown on Jose Observations: Wash well parged silty brown and did not clear. Sample was * Radium also silty and brown in color.									
_		рН	Specifc Conductance	Temp	(°C) [D.O.	Turbidity	Eh	Volume Purged	
	Time	(units)	(µmhos/cm)	(observ		(mg/l)	(NTU)	(mV)	(cumulative gal)	
	1021	29	290	10.2	-	8.2	250	178	1.2	
	1027	29	290	10.7	_	8,2	250	177	2.4	
1	033	7.9	790	10.2	-	8-1	250	177	3.6	
				(P)	Quan.					
				,	5/5/21	1				
amir	oles chilled	immediately	after collection	Yes	Othe	er				
	vised: 01/25/20		sine) solicedes.	Z 100 L						
mo/A	ffiliation of	Sampler(e):	Chris Pelosi		2	Analyt	1.0			
Herry	umation of	Jampier(s).	CHAIS TEICS!		Jeach	J West 4/1	Cert			



u _C	Client XCM		_ Project	Shorts 31	oonds resam	why Proje	ct No	4-04716				
nati	Monitoring Point ID	P-175				La	abeled &	14705				
forr	Inside Diameter		(inches)	Key # 2	06	 \(\otimes \) Locke		Not Locked				
ng Ir	Casing Material:	N PVC		eel	 Stainless S	teel						
Presampling Information		Depth Measi	irement a	ınd Elevati	ons (from t	op of well	casing)					
esar				Top of Cas	ing Elevation	N F	4	Feet				
and	and the state of						 	-				
otior	Static water	level measurem Static V			(Final Deptil) efore Purging			Feet Feet				
Well Description and	Purge Method <u>dla</u>	licented b	adder	- nump		Pump ID	•	.,				
Des	Date Purged 🕼 /	1012		- P · · · ·	Wa	ter Column	6.37	Feet				
Nell	Time Purged 1(1)	1-1128		6		ing Volume	1.04	Gallons				
	Pump Rate	.2.		GPM/LPM	Volu	me Purged	3,6	Gallons				
	Date Sampled 6/10/14 Field Parameter Measurements of Sample											
	Time Sampled		_		н <u> 8.ю</u>	(units)		10.5 (mg/l)				
æ	Sampling Equip. plyyp Spec. Cond. 25() (µmhos/cm) Turbidity 3.7 (NTU)											
Data		MPS-8 TM		emp. Observed 16.1 (°C) Eh 251 (mV) emp. Corrected 16.4 (°C) Other 16.4								
ling	Analyzed by <u>RbJ + KAJ</u> Temp. Corrected <u>∫ (, , , , , , , ,)</u> Other <u>NA</u> Field Measurements Temp. Corrected: ⊠ Yes □ No □ NA											
Field Sampling					∆i Yes □ Yes	□ No No	☐ NA					
g p	Sample for Soluble Metals Filtered in Field:											
Fiel	Weather Conditions [During Sampling	1: <u>88 F</u>	, sunny	12m m	rel a ?	3 mph					
	Sample Description:		00000	ess '								
	Observations:	IVAI										
		Canaifa Can		I T (00)	I DO	I T. Livin		L Value Description				
	Time pH (units)	Specifc Con- (µmhos/		Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)				
Fest	1116 8.6	250		10.2	10.5	NA	258	1.7				
Stabilization Test	1122 8.6	250		16.1	10.5	NA	256	2.4				
izati	1128 8.10	250		16.1	10.5	NA	25 V	5. 6				
tabil				KAT	110/21							
S					(16/4)							
	amples chilled immediately	after collection:	X	Yes	Othe <u>r</u>							
	Revised: 01/25/2021 e/Affiliation of Sampler(s):	Riley 10	cabson	+ kend	lay John	nJ on						
Le	ead Technician Signature:	RIA	an-	~			6/10/	U				
			- /									



Client XL	1 Shere	o Pro	oject Sherco	Pends, S	princy	Projec	t No. Z	1- 24248		
Monitoring	Point ID _	P-176				Lal	beled	344703		
Inside	Diameter _	2 (inche	s) Key#_	2106		Locked		Not Locked		
Casing	Material:	₩ PVC	Steel	☐ St	ainless S	Steel				
	De	epth Measureme	ent and Elev	ations	(from	op of well	casing)			
Top of Casing Elevation Feet										
Total Well Depth 84.18 Feet mound S18										
[1]										
Purge Meth	nod Bi		LOVO! LIOVANO!	n Bololo	i diging					
					Wa	ater Column	6,92	Feet		
Time Purg	ged 10	45 - 1103								
Pump R	ate	0.2	GPM)L	.PM	Volu	ıme Purged _	3,0	Gallons		
Date	Sampled	5/5/21	Fi	ield Par	ramete	r Measure	ments o	of Sample		
12-5				рН	8.0	(units)	D.	O 9.3 (mg/l)		
Sampli	ng Equip.	Pump	Spec. (650	_(μmhos/cm)	Turbidi	ty <u>4.1</u> (NTU)			
	Meter ID _	MPS-7 TM-6	Temp. Obs	erved_	10.2	_(°C)	E	h 175 (mV)		
Sample for Soluble Metals Filtered in Field: ☐ Yes ☐ No ☒ NA Temperature Correction Factor: + 0 · 1 °C Weather Conditions During Sampling: 50 F sung										
	* 200	ium								
Time	pH (units)	Specifc Conductan (µmhos/cm)			D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)		
1051	8.0	650	10.	2	9.3	5.0	180	1.2		
1057	8.0	650	10.	2	9.3	4.1	176	2,4		
1103	8.0	650	10,	2	9.3	4.1	175	3.6		
				ungar						
				5/5/21						
amples chilled	mmediately :	after collection	[X] yes [Other						
amples chilled		after collection:	Yes [Other						
Revised 01/25/20	21					sizal.				
Revised 01/25/20	21	Chris Pelesi		Other Pace		icul				
	Monitoring Inside Casing Sta Purge Meth Date Purg Time Purg Pump R Date Time Sampli An Fie Sample Weather Co Sample De Obse Time	Monitoring Point ID	Monitoring Point ID Inside Diameter Casing Material: Depth Measurement Static water level measurement at St	Monitoring Point ID P-176 Inside Diameter 2 (inches) Key # Casing Material: PVC Steel Depth Measurement and Elex Top of Static water level measurement before purg Static Water Level Elevatio Purge Method Shadar Pump Date Purged 6/5/71 Time Purged 1045 - 1103 Pump Rate 0.2 GPM)L Date Sampled 1105 Sampling Equip. Pump Spector Meter ID MPS-7 TM-6 Temp. Corrected: Sample for Soluble Metals Filtered in Field: Temperature Correction Factor: +0-1 Weather Conditions During Sampling: 50 F sanguary Sample Description: Clara solution Observations: MA Time pH Specifc Conductance (umhos/cm) IOS 7 8.0 GSO IO- IOS 7 IO- IOS 7 8.0 GSO IO- IOS 7 IO- IOS	Monitoring Point ID Inside Diameter Casing Material: Depth Measurement and Elevations Top of Casing B Total We Static water level measurement before purging (Star Static Water level measurement at time of sampling (Final Static Water Level Elevation Before Purge Method Shadar Pump Date Purged 1045 - 1103 Pump Rate Depth Measurement at time of sampling (Final Static Water Level Elevation Before) Purge Method Shadar Pump Date Purged 1045 - 1103 Pump Rate Depth Measurement at time of sampling (Final Static Water Level Elevation Before) Purge Method Shadar Pump Date Purged 1045 - 1103 Pump Rate Depth Measurement Incomp Field Pat Time Sampled 1105 Sampling Equip Noberved Temp. Observed Temp. Corrected Field Measurements Temp. Corrected: Sample for Soluble Metals Filtered in Field: Temperature Correction Factor: + 0 - 1 °C Weather Conditions During Sampling: Sample Description: Observations: What Radam Time pH Specifc Conductance (umhos/cm) 1051 800 650 10-2 1057 800 650 10-2 1103 800 650 10-2	Monitoring Point ID P-176 Inside Diameter Z (inches) Key # 21 CC. Casing Material: PVC Steel Stainless S Depth Measurement and Elevations (from 1 Top of Casing Elevation Total Well Depth Static water level measurement before purging (Start Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of s	Monitoring Point ID P-176 Lai Inside Diameter 2 (inches) Key # 216	Inside Diameter 2		



Well Sampling Field Data Log Sheet

Meter ID MPS-7 TML Analyzed by CSF Temp. Observed 10 5 (°C) Eh 131 (mV) Temp. Corrected 10 6 (°C) Other M/A Field Measurements Temp. Corrected: Yes No NA Sample for Soluble Metals Filtered in Field: Yes No NA Temperature Correction Factor: 4 0. 1 °C Weather Conditions During Sampling: SY*f Sample Description: Clara 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Monitorin	e Shere	T. 1. 1. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	_ 110,0	or zweigo	ioras	- St	Lo <u>21</u> Projec		8447	
Static water level measurement before purging (Start Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Water Column G. 0.7 Feet Purge Method Shabler Tump Date Purged Shabler Tump Date Purged Shabler Tump Date Purged Shabler Tump Specific Conductance (units) Sample Description: Sample Description: Sample Description: Specific Conductance (units) Specific Conductance (units)	Inside	Diameter_	2	(inches)	Key # _	2101	4	Locked	i	☐ Not L	ocked
Static water level measurement before purging (Start Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Water Column G. 0.7 Feet Purge Method Shall Water Column G. 0.7 Feet Water Column G. 0.7 Feet One Casing Volume O. 2.9 Gallons Pump Rate Static Water Level Elevation Before Purging Field Parameter Measurements of Sample One Casing Volume O. 2.9 Gallons Volume Purged Sempling Equip. Ph. 7.6 (units) Spec. Cond. 3.20 (units) D.O. 8.1 (mg/l) Spec. Cond. 3.20 (units) Spec. Cond. 3.20 (units) D.O. 8.1 (mg/l) Spec. Cond. 3.20 (units) NA Temp. Observed 10.5 (°C) Temp. Corrected 10.6 (°C) Weather Conditions During Sampling: 54°F Sample Description: Character Section (units) Spec. Cond. 3.20 (units) NA Temperature Correction Factor: 4 0.1 °C Weather Conditions During Sampling: 54°F Sample Description: Character Section (units) Spec. Cond. 3.20 (units) ND.O. 8.1 (mg/l) Spec. No. NA Temperature Correction Factor: 4 0.1 °C Weather Conditions During Sampling: 54°F Sample Description: Character Section (units) Spec. Analytical Semples chilled Immediately after collection: NA Samples chilled Immediately after collection: NA Semples chilled Immediately after collection: NA Yes Other Services Analytical	Casing	g Material:	⊠ PVC		Steel		Stainless :	Steel			
Static water level measurement before purging (Start Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Static water level measurement at time of sampling (Final Depth) Water Column G. 0.7 Feet Purge Method Shabler Ruse Date Purged Shabler Ruse Water Column G. 0.7 Feet One Casing Volume Purged Seampling Equip. Phys. 1. The Column Sampled Is 40 Spec. Cond. 220 (units) Spec. Cond. 220 (units) Spec. Cond. 220 (units) Spec. Cond. 220 (units) NA Temp. Observed 10.5 (°C) Temp. Corrected Sample for Soluble Metals Filtered in Field: Sample for Soluble Metals Filtered in Field: Sample Description: Character Ruse Weather Conditions During Sampling: Syr.F Sample Description: (units) Spec. Cond. 220 (units) Spec. Cond. 220 (units) ND.O. 8. I (mg/l) Temp. Observed 10.5 (°C) Temp. Corrected 10.6 (°C) Other Weather Conditions During Sampling: Syr.F Sample Description: (units) Syes: No NA Temperature Correction Factor: 40.1 (°C) Weather Conditions During Sampling: Syr.F Sample Description: (units) ND.O. 8. I (mg/l) Temp. Observed 10.5 (°C) Other Weather Conditions During Sampling: Syr.F Sample Description: (units) ND.O. 8. I (mg/l) ND.O. NA Temperature Correction Factor: 40.1 (°C) Weather Conditions During Sampling: Syr.F Sample Description: (units) D.O. 8. I (mg/l) (my/l)		D	epth Measu	ırement	and Elev	vation	s (from	top of well	casing)	+
Static water level measurement before purging (Start Depth) 40.46 Feet Static water level measurement at time of sampling (Final Depth) 40.46 Feet Static water level Elevation Before Purging A/A Feet Purged 5 Mpy Ret Water Column 6.07 Feet Water Column 6.07 Feet Time Purged 75.20 - 75.35 One Casing Volume 0.39 Gallons Pump Rate 75.20 - 75.35 One Casing Volume Purged 3 Gallons Pump Rate 75.40 Sampling Equip Photo Phot					Top of	Casing	Elevation	NA NA		Feet	
Static water level measurement at time of sampling (Final Depth) 40.41 Feet Static Water Level Elevation Before Purging MA Feet Purged Method Black Rump Purged Shipt Rump Rate Rump Rump Rump Rump Rump Rump Rump Rump										_	
Static Water Level Elevation Before Purging Purge Method Slable Purged JS 1/12 Date Purged JS 20 - /5 35 One Casing Volume One Casing Volume One	01									_	
Purge Method Bibble Rune Date Purged 5 M/21 Time Purged 1520 - 1535 Pump Rate 1520 - 153	Sta	atic water lev				-			6	_	
Date Purged 3 M/12 Water Column G. 07 Feet Time Purged 15 20 - 15 35 Pump Rate 15 10 No Pump Rate 15 No Pump R	Purge Met	thod Blak		valer Lev	ei Lievatio	iii belo	re ruigin		BPC	_	
Time Purged 15 2.0 - 15 3.5 Pump Rate					-		W				Feet
Date Sampled 51412 Field Parameter Measurements of Sample Time Sampled 1540 Spec. Cond. 520 (units) D.O. 8.1 (mg/l) Sampling Equip. P.	Time Pur	rged 15	20 - 1535				One Cas	sing Volume	0.99	1	Gallons
Time Sampled 15 40 Sampling Equip. Sampling Equip. Meter ID MPS-1 TML Analyzed by CSF Temp. Observed 10 5 (*C) Temp. Corrected 10 6 (*C) Temperature Correction Factor: * 0 1 ° C Weather Conditions During Sampling: 54 ° F Sample Description: Observations: B-4 **Ref) Specific Conductance (umhos/cm) Time pH (units) Specific Conductance (umhos/cm) Time pH (units) Time pH (units) Specific Conductance (umhos/cm) Time pH (units) Time pH (units) Time pH (units) Specific Conductance (umhos/cm) Time pH (units) Time	Pump F	Rate	0-150 m	8.2	_GPMY L	_PM	Vol	ume Purged	. 3		Gallons
Sampling Equip. Sampling Equip. Park Spec. Cond. S20 (jumhos/cm) Turbidity 4.0 (NTU) Meter ID MPS-7 TM Temp. Observed 10.5 (°C) Eh 131 (mV) Analyzed by CJF Temp. Corrected 10.6 (°C) Other JU/A Field Measurements Temp. Corrected: X Yes No NA Sample for Soluble Metals Filtered in Field: Yes No NA Temperature Correction Factor: + 0.1 °C Weather Conditions During Sampling: S4°F Sample Description: CUA OUT Cobserved (mg/l) (NTU) (mV) (mV) (cumulative gal 1525 7.6 S20 10.5 8.2 4.1 134 1 1535 7.6 S20 10.5 8.1 4.0 131 3 Samples chilled immediately after collection: X Yes Other Mevised 01/25/2021 Me/Affiliation of Sampler(s): Chr. Selection Meter ID MPS - TMM Temp. Observed 10.5 8.1 4.0 131 3 Time PH Specific Conductance Temp (°C) (observed) (mg/l) (NTU) (mV) (cumulative gal 1525 7.6 S20 10.5 8.1 4.0 131 3 Samples chilled immediately after collection: X Yes Other Mevised 01/25/2021 Me/Affiliation of Sampler(s): Chr. Selection Pace Amalytical	Date	e Sampled	514/21		F	ield P	aramete	er Measure	ments	of San	nple
Meter ID MPS-7 TML Analyzed by CSF Temp. Observed 10 5 (°C) Eh 131 (mV) Temp. Corrected 10 6 (°C) Other M/A Field Measurements Temp. Corrected: Yes No NA Sample for Soluble Metals Filtered in Field: Yes No NA Temperature Correction Factor: 4 0 1 °C Weather Conditions During Sampling: 54°f Sample Description: Clara 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time	e Sampled _	1540			рН	7.60	_(units)	D	.0 8.	i (mg/l)
Analyzed by		ling Equip	Pump		Spec.	Cond.	520	_(μmhos/cm)	Turbic	lity 4.	O (NTU)
Field Measurements Temp. Corrected: X Yes No NA Sample for Soluble Metals Filtered in Field: Yes No NA Temperature Correction Factor: + o · 1 °C Weather Conditions During Sampling: 54° f Sample Description: Live No Description: NA B-4		Meter ID _	MPS-7 TM	<u>-</u>	Гетр. Obs	served	10.5	_(°C)		Eh 13	(mV)
Sample Description: Observations: B-4 Form Simples Time pH Specifc Conductance (µmhos/cm) (observed) (mg/l) (NTU) (mV) (cumulative gal (cumulative gal 1525 7.6 520 10.5 8.1 4.0 132 2 1535 7.6 520 10.5 8.1 4.0 131 3 Samples chilled immediately after collection: MA Time pH Specifc Conductance (pmhos/cm) (observed) (mg/l) (NTU) (mV) (cumulative gal (cumulative gal 1535 7.6 520 10.5 8.1 4.0 131 3		nalyzed by	CSP	1	Temp. Corr	rected	10.6	(°C)	Oth	ner ,u	/A
B-4 Flat Simples	Fi Sampl				d:	X	Yes	□ No	□ N	A	
Time pH (units) Specific Conductance (umhos/cm) Temp (°C) D.O. (mg/l) Turbidity Eh (volume Purge (observed) (mg/l) (NTU) (mV) (cumulative gal 1525 7.6 520 10.5 8.1 4.0 132 2 1535 7.6 520 10.5 8.1 4.0 131 3 3 3 3 3 3 3 3	Sample D	le for Soluble Tempe onditions Du escription:	e Metals Filter rature Correct ring Sampling	ed in Fiel tion Facto J: _5*f	d: d:		Yes	□ No	□ N	A	
1525 7.6 520 10-5 8.2 4.1 134 1 1530 7.6 520 10-5 8.1 4.0 132 2 1535 7.6 520 10-5 8.1 4.0 131 3 3 3 3 3 3 3 3	Sample D	le for Soluble Tempe onditions Du escription: servations:	e Metals Filter rature Correct ring Sampling	ed in Fiel tion Facto : <u>54°f</u>	d: d:		Yes	□ No	□ N	A	
Samples chilled immediately after collection: Wes Other m Revised: 01/25/2021 me/Affiliation of Sampler(s): Chris Pelesi Pace Analytical	Sample D	le for Soluble Tempe onditions Du escription: servations:	e Metals Filter rature Correct ring Sampling	ed in Fiel tion Facto : <u>54°f</u>	d: d:		Yes	□ No	□ N	A A	
Samples chilled immediately after collection: Wes Other m Revised: 01/25/2021 me/Affiliation of Sampler(s): Chris Pelesi Pace Analytical	Sample D Obs	le for Soluble Tempe onditions Du escription: eervations: + f	e Metals Filter rature Correct ring Sampling Luc no N/A When Simple Specific Cone	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	d: d: or:+ o l	X □ °C ·	Yes Yes	No No	□ N ⊠ N	A A	lume Purged
Samples chilled immediately after collection: Wes Other m Revised: 01/25/2021 me/Affiliation of Sampler(s): Chris Pelesi Pace Analytical	Sample Dobs B-4 Time	le for Soluble Tempe onditions Du escription: escrvations: pH (units)	e Metals Filter rature Correct ring Sampling clust no N/A When Simple Specific Cont (µmhos/	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	d: d: or: + o l	°C .	Yes Yes D.O. (mg/l)	No No Turbidity (NTU)	□ N ⊠ N	A A	lume Purged
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Samples chilled immediately after collection: Wes Other m Revised: 01/25/2021 me/Affiliation of Sampler(s): Chris Pelesi Pace Analytical	Sample Dobs B-4 Time	pH (units)	Specific Conductors Specific	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	Temp (obser	°C .	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	A A	lume Purged umulative gal)
Samples chilled immediately after collection: Yes	Sample Dobs B-4 Time	pH (units)	Specific Conductors Specific	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	Temp (obser	°C .	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	A A	lume Purged umulative gal)
m Revised: 01/25/2021 me/Affiliation of Sampler(s): Chris Pelosi Pace Analytical	Sample Dobs B-4 Time	pH (units)	Specific Conductors Specific	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	Temp (obser	© (°C) (°C) (rved)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	A A	lume Purged umulative gal)
me/Affiliation of Sampler(s): Chris Pelosi Pace Analytical	Sample Dobs B-4 Time	pH (units)	Specific Conductors Specific	ed in Fiel tion Facto ม: <u>รุฯ</u> * ค . อ๛ ductance	Temp (obser	© °C .	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	A A	lume Purged umulative gal)
	Sample Do Obs B-4 Time 1525 1530 1535	pH (units) 7. 6 7. 6	Specifc Concumbos Specifc Concumbos 520 520	ed in Fiel tion Facto I: 54°f 	Temp (obser	© (°C) (°C) (ved)	D.O. (mg/l) 8.1	Turbidity (NTU)	Eh (mV)	A A	lume Purged umulative gal)
(10 11())	Sample Do Obs B-4 Time 1525 1530 1535 Samples chilled rm Revised: 01/25/20	pH (units) 7. 6 7. 6 7. 6 7. 6 7. 6 7. 6 7. 6	Specific Cone (µmhos/ 520 520	ed in Fiel tion Factors: _54°f	Temp (obser	© (°C) rved)	D.O. (mg/l) 8.2 8.1	Turbidity (NTU) 4.1 4.0	Eh (mV)	A A	lume Purged umulative gal)
Lead Technician Signature: Date: 5/9/21	Sample Do Obs B-4 Time 1525 1530 1535 Samples chilled Im Revised: 01/25/20	pH (units) 7. 6 7. 6 7. 6 7. 6 7. 6 7. 6 7. 6	Specific Cone (µmhos/ 520 520	ed in Fiel tion Factors: _54°f	Temp (obser	© (°C) rved)	D.O. (mg/l) 8.2 8.1	Turbidity (NTU) 4.1 4.0	Eh (mV)	A A	lume Purged umulative gal)



Well Sampling Field Data Log Sheet

	Client XLE SI	47.0			Jan (10	161107	31.119	21.10,00		1-04548
wen beschption and riesamping information	Monitoring Point	ID_	P-178A					La	beled F	178A
	Inside Diame	ter_	2	(inches)	Key#	2101	4	Locked	d [Not Locked
	Casing Materi	ial:	▼ PVC		Steel		Stainless S	Steel		
1		De	epth Measi	urement	and Ele	vation	s (from t	op of well	casing)	
ì					Top of		Elevation			_Feet
	01-11-		Name in the					@ 1/1/6.5	7	
			r level meas el measuren							_Feet Feet
	Static water	CI ICV					re Purging			Feet
i	Purge Method	Blud	der Pump					Pump ID		
	Date Purged		4/21				Wa	ater Column	6.95	Feet
	Time Purged	1405	- 1435		-0			ing Volume		Gallons
	Pump Rate		0.15		_GPM)	LPM	Volu	ime Purged	. 3.45	Gallons
	Date Sampl	led	514/21		F	Field P	aramete	r Measure	ments c	f Sample
N	Time Sampl	led	1440			рН	7.9	(units)	D.0	0 8·2 (mg/l)
	Sampling Equ	iip	Pump + fil-			Cond.		_(μmhos/cm)	Turbidit	y <u>1.0</u> (NTU)
	Meter		MPS-7 T	_	Temp. Ob	7		_(°C)		h 165 (mV)
5	Analyzed	by_	CJF		Temp. Cor	rrected	10.3	_(°C)	Othe	er_NA
	Etalal NA									
È			nents Temp.				Yes	□ No	□ NA	
camping	Sample for So	oluble	Metals Filte	red in Fiel	d:	X	Yes Yes	☐ No ☐ No	□ NA □ NA	
ield Samp	Sample for So	oluble mper	Metals Filte ature Correc	red in Fiel tion Facto	d: or: <u>+0.1</u>	°C	Yes	☐ No		
ried Samp	Sample for So Te Weather Condition	oluble emper is Dur	Metals Filte ature Correcting Sampling	red in Fiel tion Facto g:S4°6	d: or: +0.1	. ~ C	Yes	□ No Smph		
i reid odnip	Sample for So	oluble emper is Dur on:	Metals Filte ature Correcting Sampling	red in Fiel tion Facto g:S4°6	d: or: +0.1	. ~ C	Yes	□ No Smph		
dimpo piaci	Sample for So Te Weather Condition Sample Description	oluble emper is Dur on:	Metals Filte ature Correcting Sampling	red in Fiel tion Facto g:S4°6	d: or: +0.1	. ~ C	Yes	□ No Smph		
dimpo piaci	Sample for So Te Weather Condition Sample Description Observation	emper emper es Dur on: ns:	Metals Filte ature Correcting Sampling	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	d: or: +0.1	. ~ C	Yes	□ No Smph		
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	Sample for So Te Weather Condition Sample Description Observation 8-3 Time pH (units)	oluble emper as Dur on: ns:	Metals Filter ature Correcting Sampling Δ/Δ Specifc Con (μmhos	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	Temp	°C · · · · · · · · · · · · · · · · · · ·	Nwe i	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
	Sample for So Te Weather Condition Sample Description Observation 33 Time pH (units) 1415 7.9	oluble emper as Dur on: ns:	Metals Filter ature Correcting Sampling W/A Specifc Con (µmhos	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	Temp (obse	°C	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
	Sample for So Te Weather Condition Sample Description Observation 33 Time pH (units 1415 7.9	oluble emper as Dur on: ns:	Metals Filter ature Correcting Sampling W/A Specifc Con (µmhos	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	Temp (obse	°C	D.O. (mg/l) 8.3 8.3	Turbidity (NTU)	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
	Sample for So Te Weather Condition Sample Description Observation 33 Time pH (units 1415 7.9	oluble emper as Dur on: ns:	Metals Filter ature Correcting Sampling W/A Specifc Con (µmhos	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	Temp (obse	°C °C) p (°C) prived) 2 2	D.O. (mg/l) 8.3 8.3 8.2	Turbidity (NTU)	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
	Sample for So Te Weather Condition Sample Description Observation 33 Time pH (units 1415 7.9	oluble emper as Dur on: ns:	Metals Filter ature Correcting Sampling W/A Specifc Con (µmhos	red in Fiel stion Facto g: <u>ริ</u> ร ร ร ร ร ร ร ร ร	Temp (obse	°C	D.O. (mg/l) 8.3 8.3 8.2	Turbidity (NTU)	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
Stabilization 1530	Sample for So Te Weather Condition Sample Description Observation 8-3 Time pH (units 1415 7.9 1425 7.9 1435 7.9	oluble emper is Dur on: ns:	Metals Filter ature Correcting Sampling M/A Specifc Con (µmhose 450 450 450	red in Fiel stion Factors: S4*F	Temp (obse	°C °C) erved) 2 2 2 2 4 5/4/4	D.O. (mg/l) 8.3 8.3 8.2	Turbidity (NTU)	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
Sabilization 1530	Sample for So Te Weather Condition Sample Description Observation 33 Time pH (units 1415 7.9	oluble emper is Dur on: ns:	Metals Filter ature Correcting Sampling M/A Specifc Con (µmhose 450 450 450	red in Fiel stion Factors: S4*F	Temp (obse	°C °C) p (°C) prived) 2 2	D.O. (mg/l) 8.3 8.3 8.2	Turbidity (NTU)	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
Sabilization 1531	Sample for So Te Weather Condition Sample Description Observation 8-3 Time pH (units) 1415 7.9 1425 7.9 1435 7.9	oluble emper is Dur on: ns:	Metals Filter ature Correcting Sampling Sampling Sampling N/A Specific Con (µmhos 450 450 450 450 450 450 450 450 450 450	red in Fiel stion Factors: S4*8	Temp (obse	°C °C) erved) 2 2 7 Oth	D.O. (mg/l) 8 3 8 3 8 2	Turbidity (NTU) 1.0 1.6	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30
Samue and management of the same and the sam	Sample for Sorte Te Weather Condition Sample Description Observation 8-3 Time pH (units 1415 7.9 1425 7.9 1435 7.9	oluble emper is Dur on: ns:	Metals Filter ature Correcting Sampling Sampling Sampling N/A Specific Con (µmhos 450 450 450 450 450 450 450 450 450 450	red in Fiel stion Factors: S4*8	Temp (obse	°C °C) erved) 2 2 7 Oth	D.O. (mg/l) 8.3 8.3 8.2	Turbidity (NTU) 1.0 1.6	Eh (mV) 168	Volume Purged (cumulative gal) 1.15 2.30





25 May 2021

Eric Ealy

Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis, MN 55401

RE: Sherco BAP2 CCR

Enclosed are the results of analyses for samples received by the laboratory on 05/05/2021 08:00-05/07/2021 06:50. If you have any questions concerning this report, please feel free to contact me.

CC:

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
P-17		MGE0052-03	Water	05/04/2021 14:00	05/05/2021 8:00
P-152A		MGE0052-24	Water	05/04/2021 12:50	05/05/2021 8:00
P-158		MGE0052-27	Water	05/04/2021 16:15	05/05/2021 8:00
P-177		MGE0052-28	Water	05/04/2021 15:40	05/05/2021 8:00
P-178A		MGE0052-29	Water	05/04/2021 14:40	05/05/2021 8:00
Duplicate CCR-BAP2		MGE0052-33	Water	05/04/2021 16:15	05/05/2021 8:00
Rinse CCR-BAP2		MGE0052-34	Water	05/04/2021 16:20	05/05/2021 8:00
P-173		MGE0077-24	Water	05/05/2021 9:35	05/07/2021 6:50
P-174		MGE0077-25	Water	05/05/2021 10:05	05/07/2021 6:50
P-175		MGE0077-26	Water	05/05/2021 10:35	05/07/2021 6:50
P-176		MGE0077-27	Water	05/05/2021 11:05	05/07/2021 6:50



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-17 MGE0052-03 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	11.4	1.00	mg/L		1	BGE0084	5/5/21 10:07	5/10/21 19:41	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0084	5/5/21 10:07	5/10/21 19:41	EPA 300.0	CRL
Sulfate	18.3	1.00	mg/L		1	BGE0084	5/5/21 10:07	5/10/21 19:41	EPA 300.0	CRL
Wet Chemistry										
рН	7.85		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 11:42	SM 4500-H+ B	HRD
Total Dissolved Solids	280	25.0	mg/L		1	BGE0086	5/5/21 13:27	5/5/21 13:27	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0085	5/5/21 11:48	5/5/21 11:48	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:28	EPA 200.7	HRD
Calcium	65.4	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:26	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-152A MGE0052-24 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	3.45	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 12:54	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 12:54	EPA 300.0	CRL
Sulfate	16.1	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 12:54	EPA 300.0	CRL
Wet Chemistry										
рН	7.92		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 14:13	SM 4500-H+ B	HRD
Total Dissolved Solids	236	25.0	mg/L		1	BGE0136	5/7/21 8:44	5/7/21 8:44	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0135	5/7/21 6:41	5/7/21 6:41	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:38	EPA 200.7	HRD
Calcium	57.2	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:37	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-158 MGE0052-27 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
, many to	rtosuit	Lillik			2	. Baton	1 repared	7	Wethod	,
Anions by Ion Chromatograp	hy									
Chloride	7.67	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:38	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:38	EPA 300.0	CRL
Sulfate	107	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:38	EPA 300.0	CRL
Wet Chemistry										
pH	7.80		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 14:24	SM 4500-H+ B	HRD
Total Dissolved Solids	402	25.0	mg/L		1	BGE0136	5/7/21 8:44	5/7/21 8:44	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0135	5/7/21 6:41	5/7/21 6:41	SM 2540D	HSD
Total Metals by ICP										
Boron	0.561	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:53	EPA 200.7	HRD
Calcium	88.4	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:52	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-177 MGE0052-28 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	phy									
Chloride	2.08	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:58	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:58	EPA 300.0	CRL
Sulfate	22.3	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 15:58	EPA 300.0	CRL
Wet Chemistry										
рН	7.74		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 14:28	SM 4500-H+ B	HRD
Total Dissolved Solids	270	25.0	mg/L		1	BGE0136	5/7/21 8:44	5/7/21 8:44	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0135	5/7/21 6:41	5/7/21 6:41	SM 2540D	HSD
Total Metals by ICP										
Boron	0.0946	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:59	EPA 200.7	HRD
Calcium	71.4	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 21:57	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-178A MGE0052-29 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatogra	phy									
Chloride	2.85	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 16:18	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 16:18	EPA 300.0	CRL
Sulfate	37.6	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 16:18	EPA 300.0	CRL
Wet Chemistry										
рН	8.02		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 14:35	SM 4500-H+ B	HRD
Total Dissolved Solids	240	25.0	mg/L		1	BGE0160	5/9/21 9:11	5/9/21 9:11	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0159	5/9/21 7:13	5/9/21 7:13	SM 2540D	HSD
Total Metals by ICP										
Boron	0.109	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:04	EPA 200.7	HRD
Calcium	32.3	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:02	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Duplicate CCR-BAP2

MGE0052-33 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	7.77	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 17:40	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 17:40	EPA 300.0	CRL
Sulfate	106	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 17:40	EPA 300.0	CRL
Wet Chemistry										
рН	7.80		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 15:05	SM 4500-H+ B	HRD
Total Dissolved Solids	390	25.0	mg/L		1	BGE0160	5/9/21 9:11	5/9/21 9:11	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0159	5/9/21 7:13	5/9/21 7:13	SM 2540D	HSD
Total Metals by ICP										
Boron	0.554	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:19	EPA 200.7	HRD
Calcium	90.0	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:18	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Rinse CCR-BAP2 MGE0052-34 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	< 1.00	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 18:01	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 18:01	EPA 300.0	CRL
Sulfate	< 1.00	1.00	mg/L		1	BGE0090	5/5/21 11:23	5/11/21 18:01	EPA 300.0	CRL
Wet Chemistry										
pH	6.27		pH Units	M_TTT	1	BGE0082	5/5/21 10:05	5/5/21 15:09	SM 4500-H+ B	HRD
Total Dissolved Solids	< 25.0	25.0	mg/L	M_K-06	1	BGE0160	5/9/21 9:11	5/9/21 9:11	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0159	5/9/21 7:13	5/9/21 7:13	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:25	EPA 200.7	HRD
Calcium	< 2.00	2.00	mg/L		1	BGE0182	5/10/21 7:46	5/14/21 22:24	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-173 MGE0077-24 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	ohy									
Chloride	6.30	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:21	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:21	EPA 300.0	CRL
Sulfate	25.1	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:21	EPA 300.0	CRL
Wet Chemistry										
рН	7.96		pH Units	M_TTT	1	BGE0166	5/7/21 11:47	5/7/21 16:21	SM 4500-H+ B	CRL
Total Dissolved Solids	290	25.0	mg/L		1	BGE0199	5/11/21 8:55	5/11/21 8:55	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0198	5/11/21 6:47	5/11/21 6:47	SM 2540D	HSD
Total Metals by ICP										
Boron	0.163	0.0500	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:36	EPA 200.7	HRD
Calcium	68.5	1.50	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:34	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-174 MGE0077-25 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograph	У									
Chloride	1.40	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:41	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:41	EPA 300.0	CRL
Sulfate	48.8	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 11:41	EPA 300.0	CRL
Wet Chemistry										
pH	7.75		pH Units	M_TTT	1	BGE0166	5/7/21 11:47	5/7/21 16:29	SM 4500-H+ B	CRL
Total Dissolved Solids	422	25.0	mg/L		1	BGE0199	5/11/21 8:55	5/11/21 8:55	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0198	5/11/21 6:47	5/11/21 6:47	SM 2540D	HSD
Total Metals by ICP										
Boron	0.224	0.0500	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:41	EPA 200.7	HRD
Calcium	100	1.50	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:39	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-175 MGE0077-26 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	4.06	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:01	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:01	EPA 300.0	CRL
Sulfate	40.1	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:01	EPA 300.0	CRL
Wet Chemistry										
pH	8.04		pH Units	M_TTT	1	BGE0166	5/7/21 11:47	5/7/21 16:36	SM 4500-H+ B	CRL
Total Dissolved Solids	340	62.5	mg/L		1	BGE0199	5/11/21 8:55	5/11/21 8:55	SM 2540C	HSD
Total Suspended Solids	2280	125	mg/L		1	BGE0198	5/11/21 6:47	5/11/21 6:47	SM 2540D	HSD
Total Metals by ICP										
Boron	0.242	0.0500	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:46	EPA 200.7	HRD
Calcium	254	1.50	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:44	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

P-176 MGE0077-27 (Water) - Chain of Custody Number: Pace

Analyta	Devel	Reporting	Units	Analyte Qualifier	Dilution	Datab	Danasas	Anglyzad	Maderal	Analyst
Analyte	Result	Limit	Units	Qualifier	Dilution	n Batch	Prepared	Analyzed	Method	Allalyst
Anions by Ion Chromatograp	hy									
Chloride	3.33	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:22	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:22	EPA 300.0	CRL
Sulfate	64.8	1.00	mg/L		1	BGE0276	5/12/21 8:05	5/13/21 12:22	EPA 300.0	CRL
Wet Chemistry										
pH	7.95		pH Units	M_TTT	1	BGE0166	5/7/21 11:47	5/7/21 16:43	SM 4500-H+ B	CRL
Total Dissolved Solids	348	25.0	mg/L		1	BGE0227	5/12/21 8:51	5/12/21 8:51	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGE0226	5/12/21 6:43	5/12/21 6:43	SM 2540D	HSD
Total Metals by ICP										
Boron	0.729	0.0500	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:51	EPA 200.7	HRD
Calcium	79.4	1.50	mg/L		1	BGE0216	5/11/21 7:35	5/16/21 11:49	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0084 - Wet Prep										
Blank (BGE0084-BLK1)				Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGE0084-BLK2)				Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGE0084-BS1)				Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	24.952	1.00	mg/L	25.000		99.8	90-110			
Fluoride	2.6800	0.750	mg/L	2.5000		107	90-110			
Sulfate	24.955	1.00	mg/L	25.000		99.8	90-110			
LCS (BGE0084-BS2)				Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	25.453	1.00	mg/L	25.000		102	90-110			
Fluoride	2.6760	0.750	mg/L	2.5000		107	90-110			
Sulfate	25.969	1.00	mg/L	25.000		104	90-110			
LCS (BGE0084-BS3)				Prepared:	05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	25.189	1.00	mg/L	25.000		101	90-110			
Fluoride	2.6120	0.750	mg/L	2.5000		104	90-110			
Sulfate	25.567	1.00	mg/L	25.000		102	90-110			
Duplicate (BGE0084-DUP1)	So	urce: MGE002	27-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	12.551	1.00	mg/L		12.753			1.60	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	8.8390	1.00	mg/L		8.8860			0.530	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Allalyte	resuit	Lillin	Office	Level	resuit	701120	Lillits	T(I D	Liiiiit	110103
Batch BGE0084 - Wet Prep										
Duplicate (BGE0084-DUP2)	Sour	rce: MGE00	50-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	9.5020	1.00	mg/L		9.6600			1.65	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	6.8450	1.00	mg/L		6.9480			1.49	20	
Matrix Spike (BGE0084-MS1)	Sour	rce: MGE002	27-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	43.331	1.25	mg/L	31.250	12.753	97.9	90-110			
Fluoride	3.3663	0.938	mg/L	3.1250	<0.938	108	90-110			
Sulfate	40.134	1.25	mg/L	31.250	8.8860	100	90-110			
Matrix Spike (BGE0084-MS2)	Soul	rce: MGE00	50-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	41.474	1.25	mg/L	31.250	9.6600	102	90-110			
Fluoride	3.4763	0.938	mg/L	3.1250	<0.938	111	90-110			M_MS
Sulfate	39.318	1.25	mg/L	31.250	6.9480	104	90-110			
Matrix Spike Dup (BGE0084-MSD1)	Sour	rce: MGE002	27-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	43.744	1.25	mg/L	31.250	12.753	99.2	90-110	0.947	20	
Fluoride	3.4138	0.938	mg/L	3.1250	<0.938	109	90-110	1.40	20	
Sulfate	40.643	1.25	mg/L	31.250	8.8860	102	90-110	1.26	20	
Matrix Spike Dup (BGE0084-MSD2)	Sou	rce: MGE00	50-01	Prepared:	05/05/202	21 Analyze	ed: 05/10/2	021		
Chloride	40.963	1.25	mg/L	31.250	9.6600	100	90-110	1.24	20	
Fluoride	3.3913	0.938	mg/L	3.1250	<0.938	109	90-110	2.48	20	
Sulfate	38.885	1.25	mg/L	31.250	6.9480	102	90-110	1.11	20	
Batch BGE0090 - Wet Prep										
Blank (BGE0090-BLK1)				Prepared:	05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Allalyte	resuit	Lillin	Office	Level	rtesuit	701120	Lillito		LIIIII	110103
Batch BGE0090 - Wet Prep										
Blank (BGE0090-BLK2)				Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGE0090-BS1)				Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	25.362	1.00	mg/L	25.000		101	90-110			
Fluoride	2.6490	0.750	mg/L	2.5000		106	90-110			
Sulfate	25.576	1.00	mg/L	25.000		102	90-110			
LCS (BGE0090-BS2)				Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	24.694	1.00	mg/L	25.000		98.8	90-110			
Fluoride	2.6520	0.750	mg/L	2.5000		106	90-110			
Sulfate	25.199	1.00	mg/L	25.000		101	90-110			
LCS (BGE0090-BS3)				Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	24.439	1.00	mg/L	25.000		97.8	90-110			
Fluoride	2.5690	0.750	mg/L	2.5000		103	90-110			
Sulfate	24.772	1.00	mg/L	25.000		99.1	90-110			
Duplicate (BGE0090-DUP1)	Sou	urce: MGE00	52-19	Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	16.321	1.00	mg/L		16.472			0.921	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	58.237	1.00	mg/L		59.124			1.51	20	
Duplicate (BGE0090-DUP2)	Sou	urce: MGE00	52-20	Prepared:	: 05/05/202	21 Analyze	ed: 05/11/2	021		
Chloride	11.942	1.00	mg/L		11.901			0.344	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	24.609	1.00	mg/L		24.734			0.507	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0090 - Wet Prep										
Matrix Spike (BGE0090-MS1)	Sou	ırce: MGE00	52-19	Prepared:	05/05/202	21 Analyze	ed: 05/11/2	2021		
Chloride	47.546	1.25	mg/L	31.250	16.472	99.4	90-110			
Fluoride	3.0950	0.938	mg/L	3.1250	<0.938	99.0	90-110			
Sulfate	90.181	1.25	mg/L	31.250	59.124	99.4	90-110			
Matrix Spike (BGE0090-MS2)	Sou	ırce: MGE00	52-20	Prepared:	05/05/202	21 Analyze	ed: 05/11/2	2021		
Chloride	42.733	1.25	mg/L	31.250	11.901	98.7	90-110			
Fluoride	3.2038	0.938	mg/L	3.1250	<0.938	103	90-110			
Sulfate	56.209	1.25	mg/L	31.250	24.734	101	90-110			
Matrix Spike Dup (BGE0090-MSD1)	Sou	ırce: MGE00	52-19	Prepared:	05/05/202	21 Analyze	ed: 05/11/2	2021		
Chloride	47.755	1.25	mg/L	31.250	16.472	100	90-110	0.438	20	
Fluoride	3.4163	0.938	mg/L	3.1250	<0.938	109	90-110	9.87	20	
Sulfate	90.384	1.25	mg/L	31.250	59.124	100	90-110	0.224	20	
Matrix Spike Dup (BGE0090-MSD2)	Sou	ırce: MGE00	52-20	Prepared:	05/05/202	21 Analyze	ed: 05/11/2	2021		
Chloride	42.873	1.25	mg/L	31.250	11.901	99.1	90-110	0.327	20	
Fluoride	3.4025	0.938	mg/L	3.1250	<0.938	109	90-110	6.02	20	
Sulfate	56.255	1.25	mg/L	31.250	24.734	101	90-110	0.0822	20	
Batch BGE0219 - Wet Prep										
Blank (BGE0219-BLK1)				Prepared:	05/11/202	21 Analyze	ed: 05/12/2	2021		
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGE0219-BLK2)				Prepared:	05/11/202	21 Analyze	d: 05/12/2	2021		
Chloride	<1.00	1.00	mg/L						<u> </u>	<u> </u>
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0219 - Wet Prep										
LCS (BGE0219-BS1)				Prepared:	05/11/202	1 Analyze	d: 05/12/2	021		
Chloride	25.694	1.00	mg/L	25.000		103	90-110			
Fluoride	2.6290	0.750	mg/L	2.5000		105	90-110			
Sulfate	25.881	1.00	mg/L	25.000		104	90-110			
LCS (BGE0219-BS2)				Prepared:	05/11/202	1 Analyze	ed: 05/12/2	021		
Chloride	25.749	1.00	mg/L	25.000		103	90-110			
Fluoride	2.6840	0.750	mg/L	2.5000		107	90-110			
Sulfate	26.122	1.00	mg/L	25.000		104	90-110			
LCS (BGE0219-BS3)				Prepared:	05/11/202	1 Analyze	ed: 05/12/2	021		
Chloride	25.577	1.00	mg/L	25.000		102	90-110			
Fluoride	2.6300	0.750	mg/L	2.5000		105	90-110			
Sulfate	25.977	1.00	mg/L	25.000		104	90-110			
Duplicate (BGE0219-DUP1)	Sour	ce: MGE007	77-04	Prepared:	05/11/202	1 Analyze	ed: 05/12/2	021		
Chloride	14.815	1.00	mg/L		14.863			0.323	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	120.40	1.00	mg/L		120.94			0.446	20	
Duplicate (BGE0219-DUP2)	Sour	ce: MGE007	77-05	Prepared:	05/11/202	1 Analyze	ed: 05/12/2	021		
Chloride	36.292	1.00	mg/L		36.173			0.328	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	89.959	1.00	mg/L		89.638			0.357	20	
Matrix Spike (BGE0219-MS1)	Sour	ce: MGE007	77-04	Prepared:	05/11/202	1 Analyze	ed: 05/12/2	021		
Chloride	45.811	1.25	mg/L	31.250	14.863	99.0	90-110			
Fluoride	3.0163	0.938	mg/L	3.1250	<0.938	96.5	90-110			
Sulfate	152.40	1.25	mg/L	31.250	120.94	101	90-110			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
•										
Batch BGE0219 - Wet Prep										
Matrix Spike (BGE0219-MS2)		ce: MGE007	77-05				ed: 05/12/2	2021		
Chloride	67.411	1.25	mg/L	31.250	36.173	100	90-110			
Fluoride	3.2563	0.938	mg/L	3.1250	<0.938	104	90-110			
Sulfate	121.11	1.25	mg/L	31.250	89.638	101	90-110			
Matrix Spike Dup (BGE0219-MSD1)	Sour	ce: MGE007	77-04	Prepared:	05/11/202	21 Analyze	ed: 05/12/2	2021		
Chloride	46.596	1.25	mg/L	31.250	14.863	102	90-110	1.70	20	
Fluoride	3.3625	0.938	mg/L	3.1250	<0.938	108	90-110	10.9	20	
Sulfate	152.48	1.25	mg/L	31.250	120.94	101	90-110	0.0558	20	
Matrix Spike Dup (BGE0219-MSD2)	Sour	ce: MGE007	77-05	Prepared:	05/11/202	21 Analyze	ed: 05/12/2	2021		
Chloride	67.118	1.25	mg/L	31.250	36.173	99.0	90-110	0.437	20	
Fluoride	3.3075	0.938	mg/L	3.1250	<0.938	106	90-110	1.56	20	
Sulfate	120.24	1.25	mg/L	31.250	89.638	97.9	90-110	0.727	20	
Batch BGE0276 - Wet Prep										
Blank (BGE0276-BLK1)				Prepared:	05/12/202	21 Analyze	ed: 05/13/2	2021		
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGE0276-BLK2)				Prepared:	05/12/202	21 Analyze	ed: 05/13/2	2021		
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGE0276-BS1)				Prepared:	05/12/202	21 Analyze	ed: 05/13/2	2021		
Chloride	25.516	1.00	mg/L	25.000		102	90-110			
Fluoride	2.5640	0.750	mg/L	2.5000		103	90-110			
Sulfate	25.621	1.00	mg/L	25.000		102	90-110			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

O5/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0276 - Wet Prep										
LCS (BGE0276-BS2)				Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	25.482	1.00	mg/L	25.000		102	90-110			
Fluoride	2.6830	0.750	mg/L	2.5000		107	90-110			
Sulfate	25.908	1.00	mg/L	25.000		104	90-110			
LCS (BGE0276-BS3)				Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	25.461	1.00	mg/L	25.000		102	90-110			
Fluoride	2.6430	0.750	mg/L	2.5000		106	90-110			
Sulfate	25.664	1.00	mg/L	25.000		103	90-110			
Duplicate (BGE0276-DUP1)	So	urce: MGE007	77-18	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	3.9280	1.00	mg/L		3.9370			0.229	20	
Fluoride	< 0.750	0.750	mg/L		< 0.750				20	
Sulfate	38.517	1.00	mg/L		38.597			0.207	20	
Duplicate (BGE0276-DUP2)	So	urce: MGE007	77-19	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	4.6080	1.00	mg/L		4.6800			1.55	20	
Fluoride	< 0.750	0.750	mg/L		< 0.750				20	
Sulfate	60.342	1.00	mg/L		60.783			0.728	20	
Matrix Spike (BGE0276-MS1)	So	urce: MGE007	77-18	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	34.561	1.25	mg/L	31.250	3.9370	98.0	90-110			
Fluoride	2.9413	0.938	mg/L	3.1250	<0.938	94.1	90-110			
Sulfate	69.708	1.25	mg/L	31.250	38.597	99.6	90-110			
Matrix Spike (BGE0276-MS2)	So	urce: MGE007	77-19	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	021		
Chloride	36.119	1.25	mg/L	31.250	4.6800	101	90-110			
Fluoride	3.2013	0.938	mg/L	3.1250	<0.938	102	90-110			
Sulfate	91.926	1.25	mg/L	31.250	60.783	99.7	90-110			



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR 250 Marquette Plaza Reported: Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Anions by Ion Chromatography - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0276 - Wet Prep										
Matrix Spike Dup (BGE0276-MSD1)	Sour	ce: MGE007	77-18	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	2021		
Chloride	34.850	1.25	mg/L	31.250	3.9370	98.9	90-110	0.832	20	
Fluoride	3.2950	0.938	mg/L	3.1250	<0.938	105	90-110	11.3	20	
Sulfate	69.993	1.25	mg/L	31.250	38.597	100	90-110	0.408	20	
Matrix Spike Dup (BGE0276-MSD2)	Sour	ce: MGE007	77-19	Prepared:	05/12/202	21 Analyze	ed: 05/13/2	2021		
Chloride	35.874	1.25	mg/L	31.250	4.6800	99.8	90-110	0.681	20	
Fluoride	3.3475	0.938	mg/L	3.1250	<0.938	107	90-110	4.47	20	
Sulfate	91.925	1.25	mg/L	31.250	60.783	99.7	90-110	0.00135	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0082 - Wet Prep										
LCS (BGE0082-BS1)				Prepared	& Analvze	d: 05/05/2	021			
pH	7.0800		pH Units	7.0000	· ,	101	90-110			
LCS (BGE0082-BS2)				Prepared	& Analyze	d: 05/05/2	021			
рН	7.0700		pH Units	7.0000		101	90-110			
Duplicate (BGE0082-DUP1)	Sourc	e: MGE00	52-01	Prepared	& Analyze	d: 05/05/2	021			
рН	7.7300		pH Units		7.7400			0.129	20	
Duplicate (BGE0082-DUP2)	Sourc	e: MGE00	52-11	Prepared	& Analyze	d: 05/05/2	021			
рН	7.7000		pH Units		7.7200			0.259	20	
Duplicate (BGE0082-DUP3)	Sourc	e: MGE00	52-21	Prepared	& Analyze	d: 05/05/2	021			
pH	7.8900		pH Units		7.8900			0.00	20	
Duplicate (BGE0082-DUP4)	Sourc	e: MGE00	52-31	Prepared	& Analyze	d: 05/05/2	021			
					7 7000					
pH	7.8300		pH Units		7.7800			0.641	20	
pH Batch BGE0085 - Wet Prep	7.8300		pH Units		7.7800			0.641	20	
•	7.8300		pH Units	Prepared of		d: 05/05/2	021	0.641	20	
Batch BGE0085 - Wet Prep	7.8300 <5.00	5.00	pH Units	Prepared		d: 05/05/2	021	0.641	20	
Blank (BGE0085-BLK1)		5.00		Prepared of	& Analyze			0.641	20	
Batch BGE0085 - Wet Prep Blank (BGE0085-BLK1) Total Suspended Solids		5.00		•	& Analyze			0.641	20	
Blank (BGE0085 - Wet Prep Blank (BGE0085-BLK1) Total Suspended Solids LCS (BGE0085-BS1)	<5.00 90.000		mg/L	Prepared	& Analyze	d: 05/05/2 86.5	021 70-130	0.641	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0085 - Wet Prep										
Duplicate (BGE0085-DUP2)	Sour	ce: MGE00	52-01	Prepared	& Analyze	d: 05/05/2	021			
Total Suspended Solids	31.600	10.0	mg/L	•	31.400			0.635	20	
Batch BGE0086 - Wet Prep										
Blank (BGE0086-BLK1)				Prepared	& Analyze	d: 05/05/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0086-BS1)				Prepared	& Analyze	d: 05/05/2	021			
Total Dissolved Solids	108.00	25.0	mg/L	100.10		108	70-130			
Duplicate (BGE0086-DUP1)	Sour	ce: MGE005	50-01	Prepared	& Analyze	d: 05/05/2	021			
Total Dissolved Solids	170.00	25.0	mg/L		172.00			1.17	20	
Duplicate (BGE0086-DUP2)	Sour	ce: MGE00	52-01	Prepared	& Analyze	d: 05/05/2	021			
Total Dissolved Solids	214.00	25.0	mg/L		214.00			0.00	20	
Batch BGE0101 - Wet Prep										
Blank (BGE0101-BLK1)				Prepared	& Analyze	d: 05/06/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGE0101-BS1)				Prepared	& Analyze	d: 05/06/2	021			
Total Suspended Solids	94.000	5.00	mg/L	104.10		90.3	70-130			
Duplicate (BGE0101-DUP1)	Sour	ce: MGE00	52-04	Prepared	& Analyze	d: 05/06/2	021			
Total Suspended Solids	344.00	25.0	mg/L		345.00			0.290	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0102 - Wet Prep										
Blank (BGE0102-BLK1)				Prepared	& Analyze	d: 05/06/2	2021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0102-BS1)				Prepared	& Analyze	d: 05/06/2	2021			
Total Dissolved Solids	90.000	25.0	mg/L	100.10		89.9	70-130			
Duplicate (BGE0102-DUP1)	Source	ce: MGE00	52-04	Prepared	& Analyze	d: 05/06/2	2021			
Total Dissolved Solids	246.00	25.0	mg/L		252.00			2.41	20	
Batch BGE0135 - Wet Prep										
Blank (BGE0135-BLK1)				Prepared	& Analyze	d: 05/07/2	2021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGE0135-BS1)				Prepared	& Analyze	d: 05/07/2	2021			
Total Suspended Solids	92.000	5.00	mg/L	104.10		88.4	70-130			
Duplicate (BGE0135-DUP1)	Source	ce: MGE00	52-14	Prepared	& Analyze	d: 05/07/2	2021			
Total Suspended Solids	10.400	10.0	mg/L		10.800			3.77	20	
Batch BGE0136 - Wet Prep										
Blank (BGE0136-BLK1)				Prepared	& Analyze	d: 05/07/2	2021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0136-BS1)				Prepared	& Analyze	d: 05/07/2	2021			
Total Dissolved Solids	96.000	25.0	mg/L	100.10		95.9	70-130		·	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0136 - Wet Prep										
Duplicate (BGE0136-DUP1)	Sour	ce: MGE00	52-14	Prepared	& Analyze	d: 05/07/2	021			
Total Dissolved Solids	358.00	25.0	mg/L		372.00			3.84	20	
Batch BGE0159 - Wet Prep										
Blank (BGE0159-BLK1)				Prepared	& Analyze	d: 05/09/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGE0159-BS1)				Prepared	& Analyze	d: 05/09/2	021			
Total Suspended Solids	90.000	5.00	mg/L	104.10		86.5	70-130			
Duplicate (BGE0159-DUP1)	Sour	ce: MGE00	52-29	Prepared	& Analyze	d: 05/09/2	021			
Total Suspended Solids	<9.62	9.62	mg/L		<9.62				20	M_K-06
Duplicate (BGE0159-DUP2)	Sour	ce: MGE00	52-30	Prepared	& Analyze	d: 05/09/2	021			
Total Suspended Solids	9.6000	10.0	mg/L		8.0000			18.2	20	M_K-06
Batch BGE0160 - Wet Prep										
Blank (BGE0160-BLK1)				Prepared	& Analyze	d: 05/09/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0160-BS1)				Prepared	& Analyze	d: 05/09/2	021			
Total Dissolved Solids	86.000	25.0	mg/L	100.10		85.9	70-130			
Duplicate (BGE0160-DUP1)	Sour	ce: MGE00	52-29	Prepared	& Analyze	d: 05/09/2	021			
Total Dissolved Solids	240.00	25.0	mg/L		240.00			0.00	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

05/25/2021 09:29

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BGE0160 - Wet Prep										
Duplicate (BGE0160-DUP2)	Sou	rce: MGE00	52-30	Prepared	& Analyze	d: 05/09/2	021			
Total Dissolved Solids	26456	25.0	mg/L		26410			0.174	20	M_E
Batch BGE0166 - Wet Prep										
LCS (BGE0166-BS1)				Prepared	& Analyze	d: 05/07/2	021			
pH	7.1700		pH Units	7.0000		102	90-110			
LCS (BGE0166-BS2)				Prepared	& Analyze	d: 05/07/2	021			
рН	7.1900		pH Units	7.0000		103	90-110			
Duplicate (BGE0166-DUP1)	Sou	rce: MGE00	77-01	Prepared	& Analyze	d: 05/07/2	021			
рН	7.7800		pH Units		7.7400			0.515	20	
Duplicate (BGE0166-DUP2)	Sou	rce: MGE00	77-11	Prepared	& Analyze	d: 05/07/2	021			
рН	7.8000		pH Units		7.8000			0.00	20	
Duplicate (BGE0166-DUP3)	Sou	rce: MGE00	77-21	Prepared	& Analyze	d: 05/07/2	021			
рН	8.1400		pH Units		8.1200			0.246	20	
Duplicate (BGE0166-DUP4)	Sou	rce: MGE00	77-30	Prepared	& Analyze	d: 05/07/2	021			
рН	7.9900		pH Units		8.0000			0.125	20	
Batch BGE0176 - Wet Prep										
Blank (BGE0176-BLK1)				Prepared	& Analyze	d: 05/10/2	021			
Total Suspended Solids	<5.00	5.00	mg/L	-	-					



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGE0176 - Wet Prep										
LCS (BGE0176-BS1)				Prepared	& Analyze	ed: 05/10/2	021			
Total Suspended Solids	94.000	5.00	mg/L	104.10	a, mary 20	90.3	70-130			
Duplicate (BGE0176-DUP1)	Sou	ırce: MGE007	77-07	Prepared	& Analyze	d: 05/10/2	021			
Total Suspended Solids	17.600	10.0	mg/L	•	15.600			12.0	20	
Batch BGE0177 - Wet Prep										
Blank (BGE0177-BLK1)				Prepared	& Analyze	d: 05/10/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0177-BS1)				Prepared	& Analyze	d: 05/10/2	021			
Total Dissolved Solids	94.000	25.0	mg/L	100.10		93.9	70-130			
Duplicate (BGE0177-DUP1)	Sou	ırce: MGE007	77-07	Prepared	& Analyze	d: 05/10/2	.021			
Total Dissolved Solids	480.00	25.0	mg/L		480.00			0.00	20	
Batch BGE0198 - Wet Prep										
Blank (BGE0198-BLK1)				Prepared	& Analyze	d: 05/11/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGE0198-BS1)				Prepared	& Analyze	d: 05/11/2	021			
Total Suspended Solids	92.000	5.00	mg/L	104.10		88.4	70-130			
Duplicate (BGE0198-DUP1)	Sou	ırce: MGE007	77-17	Prepared	& Analyze	d: 05/11/2	021			
Total Suspended Solids	1.2000	10.0	mg/L		<10.0				20	M_K-06



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

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Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0199 - Wet Prep										
Blank (BGE0199-BLK1)				Prepared	& Analyze	d: 05/11/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0199-BS1)				Prepared	& Analyze	d: 05/11/2	021			
Total Dissolved Solids	86.000	25.0	mg/L	100.10		85.9	70-130			
Duplicate (BGE0199-DUP1)	Soul	rce: MGE007	77-17	Prepared	& Analyze	d: 05/11/2	021			
Total Dissolved Solids	446.00	25.0	mg/L	-	446.00			0.00	20	
Batch BGE0226 - Wet Prep										
Blank (BGE0226-BLK1)				Prepared	& Analyze	d: 05/12/2	2021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGE0226-BS1)				Prepared	& Analyze	d: 05/12/2	2021			
Total Suspended Solids	94.000	5.00	mg/L	104.10		90.3	70-130			
Duplicate (BGE0226-DUP1)	Soul	rce: MGE007	77-27	Prepared	& Analyze	d: 05/12/2	2021			
Total Suspended Solids	0.80000	10.0	mg/L		0.60000			28.6	20	M_D-RL, M_K-06
Batch BGE0227 - Wet Prep										
Blank (BGE0227-BLK1)				Prepared	& Analyze	d: 05/12/2	2021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGE0227-BS1)				Prepared	& Analyze	d: 05/12/2	2021			
Total Dissolved Solids	102.00	25.0	mg/L	100.10	•	102	70-130			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	BGE0227	- Wet Prep
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Duplicate (BGE0227-DUP1)	Source:	MGE007	7-27	Prepared & Analyzed: 05/12/2021		
Total Dissolved Solids	336.00	25.0	mg/L	348.00	3.51	20



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0182 - EPA 200.2, EPA 300	05									
Blank (BGE0182-BLK1)				Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Calcium	<1.50	1.50	mg/L							
Boron	<0.0500	0.0500	mg/L							
LCS (BGE0182-BS1)				Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Boron	0.93123	0.0500	mg/L	1.0000		93.1	85-115			
Calcium	101.45	1.50	mg/L	100.00		101	85-115			
Duplicate (BGE0182-DUP1)	Sou	rce: MGE005	52-21	Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Boron	0.036383	0.0500	mg/L		0.035672			1.97	20	
Calcium	68.388	1.50	mg/L		72.404			5.71	20	
Duplicate (BGE0182-DUP2)	Sou	rce: MGE005	52-22	Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Boron	0.064578	0.0500	mg/L		0.068389			5.73	20	
Calcium	89.087	1.50	mg/L		95.046			6.47	20	
Matrix Spike (BGE0182-MS1)	Sou	rce: MGE005	52-21	Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Calcium	170.66	1.50	mg/L	100.00	72.404	98.3	70-130			
Boron	0.97656	0.0500	mg/L	1.0000	0.035672	94.1	70-130			
Matrix Spike (BGE0182-MS2)	Sou	rce: MGE00	52-22	Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Calcium	195.93	1.50	mg/L	100.00	95.046	101	70-130			
Boron	1.0165	0.0500	mg/L	1.0000	0.068389	94.8	70-130			
Matrix Spike Dup (BGE0182-MSD1)	Sou	rce: MGE005	52-21	Prepared:	05/10/202	21 Analyze	ed: 05/14/2	021		
Calcium	170.40	1.50	mg/L	100.00	72.404	98.0	70-130	0.150	20	
Boron	0.99103	0.0500	mg/L	1.0000	0.035672	95.5	70-130	1.47	20	
Matrix Spike Dup (BGE0182-MSD2)	Sou	rce: MGE00	52-22	Prepared:	05/10/202	21 Analyze	ed: 05/15/2	021		
Calcium	192.63	1.50	mg/L	100.00	95.046	97.6	70-130	1.70	20	
Boron	1.0212	0.0500	mg/L	1.0000	0.068389	95.3	70-130	0.462	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 05/25/2021 09:29

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGE0216 - EPA 200.2, EPA 300	5									
Blank (BGE0216-BLK1)				Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Boron	<0.0500	0.0500	mg/L							
Calcium	<1.50	1.50	mg/L							
LCS (BGE0216-BS1)				Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Boron	0.94056	0.0500	mg/L	1.0000		94.1	85-115			
Calcium	98.116	1.50	mg/L	100.00		98.1	85-115			
Duplicate (BGE0216-DUP1)	Sou	rce: MGE007	77-18	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Calcium	64.074	1.50	mg/L		63.223			1.34	20	
Boron	0.16959	0.0500	mg/L		0.17192			1.37	20	
Duplicate (BGE0216-DUP2)	Sou	rce: MGE007	77-19	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Boron	0.22155	0.0500	mg/L		0.22570			1.86	20	
Calcium	77.840	1.50	mg/L		77.544			0.381	20	
Matrix Spike (BGE0216-MS1)	Sou	rce: MGE007	77-18	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Boron	1.1228	0.0500	mg/L	1.0000	0.17192	95.1	70-130			
Calcium	163.84	1.50	mg/L	100.00	63.223	101	70-130			
Matrix Spike (BGE0216-MS2)	Sou	rce: MGE007	77-19	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Calcium	180.94	1.50	mg/L	100.00	77.544	103	70-130			
Boron	1.1753	0.0500	mg/L	1.0000	0.22570	95.0	70-130			
Matrix Spike Dup (BGE0216-MSD1)	Sou	rce: MGE007	77-18	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Calcium	164.96	1.50	mg/L	100.00	63.223	102	70-130	0.683	20	
Boron	1.1179	0.0500	mg/L	1.0000	0.17192	94.6	70-130	0.433	20	
Matrix Spike Dup (BGE0216-MSD2)	Sou	rce: MGE007	77-19	Prepared:	05/11/202	1 Analyze	ed: 05/16/2	021		
Calcium	183.55	1.50	mg/L	100.00	77.544	106	70-130	1.44	20	
Boron	1.1789	0.0500	mg/L	1.0000	0.22570	95.3	70-130	0.306	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Qualifiers and Definitions

M TTT	Sample received at the lab outside of required hold time.

M_MS The percent recovery and/or RPD were outside the acceptance limits for the MS/MSD due to possible matrix interference

and/or non-homogeneous sample matrix.

M_K-06 The reporting limit has been increased, the reported result is acceptable. The maximum routine sample volume was used,

but the amount of residue measured was below reference method limits.

M_E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value

is considered an estimate.

M_D-RL The RPD for the sample duplicate was outside of QC acceptance limits due to<RL.

Z Non Accredited Analyte

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



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Section A	Section A Required Client Information:	Section B Required Project Information:	set Information:		Section C	malion									Page:	1 of	a
Company	ny: Xcel Energy	Report To:	0	SI	Attention:			Ste	Steve Davis	S			REC	REGULATORY AGENCY	AGEN(չ	
Address:	Environmental Services	Copy To:	Riley Jacobson	Son	Company Name:	ame:	-					L NPDES	15	GROUND WATER [DRINKING WATER	WATER
	MP-7				Address:							T UST	- RCRA	h	0	III	CES
Email To	To: Chris Pelesi	Purchase Order No.	r No.:		Pace Quote Reference:	Reference.						SITE	<u>></u> 0	MN	L	M	
Phone:	Phone; (612) 597-7254 Fax:	Project Number	8h5h0-17	l le	Pace Project Manager.	t Manager:		Chris Pe	Pelosi/ Ri	Riley Jac	Jacobson	LOCATION		OH L SCL	N L		OTHER
Reques	Requested Due Date/TAT: 2 Weeks	Project Name:	Xcel Energy	Sherc	Sherco Ponds Spring		Pace Profile #	#		-		Filtered (Y/N)	/ (N	1111	///		
	mation	Vaird Matrix Codes MATRIX DRIBGGGWATER WATER WASTER REGOLUT PRODUCT SOULSCUID	3000 S S S S S S S S S S S S S S S S S S	SIX CODE	B C=COMP	COLLECTED	STED ,	TA 9MBT 3.	гестіои Оитаінера	pe	Preservatives	Requested Analysis:	//	40000	Salva Aria		
TEM #	(A-Z, U-9 / -) Sample IDs MUST BE UNIQUE		от наменую в мусто с так не надагом	IMAS	COMPOSITE START	TIME	COMPOSITE END/GRAB DATE TIIM	Пш	COL	H ^S 2O [†]	Methanol Na ₂ S ₂ O ₃ HCI HCI	Other GW.D	BASOS/NO BASOS/NO	(18/09/97) (18/09/97) (18/09/97)	O Jenojso	1	Pace Project No. Lab I.D.
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~	P-03A	A STA CHEST CONTRACTOR STATEMENT CONTRACTOR		WT G		12	5/4/21	15551	ry	-	1	×	×				
<u>-</u>	P-03B			WT G		\$	12/4/2	5251	භ	+	-	×	×				
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un,	₩90-d•			φ ±**					co	+	-	X	×			Commence and Association of the Control of the Cont	
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Pace Analytical " www.pacelebs.com

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Section A Required Client Information:	ation:	Section B Required Proje	Section B Required Project Information:	Section C Invoice Information	nation:								Page: 1	of	2
Company:	Xcel Energy	Report To:	Chris Pelosi	Attention:		Steve	Davis				REGUL	REGULATORY AGENCY	AGENC		
Address: Envir	Environmental Services	Copy To:	Riley Jacobson	Company Name	me:					☐ NPDES	100	GROUND WATER		DRINKING WATER	ATER
	MP-7			Address:					I	I UST	RCRA	L		OTHER MCES	SI
Email To:	Chris Pelosi	Purchase Order No.:	r No.:	Pace Quote Reference:	Reference:				MISSIMUS	SITE	NC (L	M	
Phone; (612) 597-7254	Fax	Project Number	8h5h0-17,	Pace Project Manager	Manager:	Chris Pelosi/		Riley Jacobson	The same of the sa	LOCATION	H L	L sc	×	OTHER	S.
Requested Due Date/TAT:	TAT: 2 Weeks	Project Name:	Xcel Energy Shero	Sherco Ponds Spring	ring Pace Profile	ille #				Filtered (Y/N)	111		1		
Section D	l Information	Valid Matrix Codes MATRIX DRINKING WATER	3d 30		COLLECTED		SHERS	Preservatives	Z 4	Requested Analysis:		19	(A)		
	One Character per box. (A-Z, 0-9 / ;-)	WATER WASTE WATER PRODUCT SOL/SOLID OIL	SERSE			PLE TEM	CONTAIN		fc.		Jan C	AND CONTRACT	ANE-YES (A) SONO (A)		
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ري -	P-05A	6	WT G		515 h	1310	က	-		×	×				MANAGEMENT
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8	P-23	ć	WT G		nISIS	0121	4	1 2		×	×				
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	Acel Energy	Report 1o.	Chris Pelosi		Attention:			Steve	Davis	**			œ	REGULATORY AGENCY	RY AG	ENCY	
Address: Environ	Environmental Services	Copy To:	Riley Jacobson		Company Name	on on						dN L	NPDES F GF	GROUND WATER	ER 「	DRINK	DRINKING WATER
	MP-7				Address:							T UST	<u></u>	RCRA	L	OTHER	OTHER MCES
Email To: Ch	Chris Pelosi	Purchase Order No.:	er No.:		Pace Quote Reference	ference:						S	SITE	NC WN	1	L.	M
Phone: (612) 597-7254 Fax:		Project Numbe	Project Number 21-49548		Pace Project Manager:	anager:	Chris	is Pelosi/	si/Rile	ey Jac	Riley Jacobson	TOC	LOCATION	L HO L	SCT	N N	OTHER
Requested Due Date/TAT:	2 Weeks	Project Name:	Xcel Energy	9233	Sherco Ponds Spring	ng Pace Profile	ofile #:					Filtered (Y/N)	(VIN)	111		1	
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pHSHC	PHSTUPS: MD 00-402	102			PRIII	SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER R. Ney JACE DS.	HER CILEY	Riley Jacobson	<	+ Chris	Pelos;	ĮŠ.	Kendall Johnson		O° ni qməT no bəviəcə۶	Custody	saled Cooler amples Intact



CHAIN-OF-CUSTODY / Analytical Request Document

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Paya Project No. Leb I.D. DRINKING WATE OTHER N/ DVA N/A samples Intact OTHER MCES SAMPLE CONDITIONS of Custody Sealed Cooler N/A N/A N/A N/A REGULATORY AGENCY Page: 3 3 Received on N/X N/A SCL ▼ GROUND WATER 「 O° ni qmeT NC MN T LHOL 080 TIME 1800 + Kendall Johnson - RCRA × LOCATION 5/5/21 NPDES Filtered (Y/N) SITE DATE UST × NINS ACCEPTED BY / AFFILIATION lonediel XC EOSSSEV + Chr. S Pelosi HOEN Chris Pelosi/ Riley Jacobson IOI EONE 1 1 2 POSZ ~ Steve Davis Ą 3 3 3 3 # OF CONTAINERS 00 P. ley Troubson SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT 0501 5000 51:01 10201 0201 1035 TIME SI 0081 12/15/5 5/5/21 5/3/21 RELINQUISHED BY / AFFILIATION DATE 12/4/5 5/4/21 5/4/21 12/4/5 DATE 12/1/5 COLLECTED Pace Quote Reference: Pace Project Manager TIME Invoice Information Xcel Energy Sherca Ponds Spring Company Name: Section C DATE Pack SAMPLE TYPE G=GRAB C=COMP 9 0 0 0 WT WT TW M 11.8 Riley Jacobson TW TW W WT TW M MATRIX CODE TW Chris Pelosi Sh.5h0-12 Required Project Information: Purchase Order No.: TOLOUDY STATE roject Number Project Name: Section B Report To: Copy To: MATEIX DRINKING WATER WATER WASTE WATER PRODUCT SOU/SOLD *Submitting 30 Samples + 3 Dup + 3 RINSE -RES SHILL Required Client Information P-101A P-93B P-93D P-101B P-93A P-131 121-4 Environmental Services One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLEID Xcel Energy Required Client Information: **Fax**: Requested Due Date/TAT: Section D Additional Comments: Section A mail To: # MBTI

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Pace Analytical

Section A Required C	Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:					- 20	2	
Company:	y. Xcel Energy	Report To: Chris Pelosi	Attention:	Steve	Steve Davis		REGULATORY AGENCY	ORY AG	ENCY	
Address:	Environmental Services	Copy To: Riley Jacobson	Company Name:			☐ NPDES	GROUND WATER	NTER	DRINK	DRINKING WATER
	MP-7		Address			TSU _	☐ RCRA	<u></u>	OTHER	OTHER MCES
Email To:	o: Chris Pelosi	Purchase Order No.:	Pace Quote Reference	108.		SITE	NC S	<u></u>	L	L
Phone:	Phone; (612) 597-7254 Fax:	Project Number 21-04548	Pace Project Manager:		Chris Pelosi/ Riley Jacobson	LOCATION		scr	MI	OTHER
Rednes	Requested Due Date/TAT: 2 Weeks	Project Name: Xcel Energy Sherco	rco Ponds Spring	Pace Pronte #		Filtered (Y/N)	1111		1	
	Section D Required Client Information SAMPLE ID One Character per box.	Valid Matrix Codes CODE THE ACM TRACK CODE THE ACM TRACK THE	AB C=COMP	COLLECTED	Presentatives	Requested Analysis:	Z-dy-g	(NIX) supply:	(NIX) SUITE	
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SAMPLER NAME AND SIGNATURE Himp mywox41:21°C

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Custody Sealed Cooler

Received on lce

O° ni qmeT

Kendull Sohnson

+ Chris Pelosi

Name of SAMPLER. R. Ley Treatoscom

N/A

N/A

Pace Analytical "

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Purchase Order No. Riley Jacobson Company Name: Purchase Order No. Purchase Order N	Company:	Xcel Energy	Report To:	Chris Pelosi		Attention:		Steve	e Davis				REGL	REGULATORY AGENCY	AGENC	۶.
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Chris Pelos Chri		invironmental Services	Copy To:	Rifey Jacob	E.	Company Name:						I NPDES	>	GROUND WATER	- N	DRINKING WATER
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Required Client Information Marie	Phone: (612) 597-7254		Project Numbe			Pace Project Mar	nager:	Chris Pelc	ssi/ Riley	Jacob	son	LOCATI	L	OH I SCL	> IW	T OTHER
Required Client Information Managed Control Parameter Control Information Managed	Requested Due D		Project Name:			Ponds Spring		o #:				Filtered (Y/N	1// (1
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B			Section C										Page:	4 of	10
Required Client Information:	formation:	Required Pro	Required Project Information:		Invoice Information	.C											1
Company:	Xcel Energy	Report To:	Chris Pelosi		Attention:		Ste	Steve Davis	"				REGUI	REGULATORY AGENCY	AGEN	<u></u>	
Address: El	Environmental Services	Copy To:	Riley Jacobs	pson	Company Name:							NPDES	GROUNE	GROUND WATER	L	DRINKING WATER	WATE
	MP-7				Address:							UST	L RCRA		6 L	OTHER MCES	CES
Email To:	Chris Pelosi	Purchase Order No.:	er No.:		Pace Quote Reference	ence:						SITE	NW 2	Z.	Z L	.L W	
Phone: (612) 597-7254	Fax	Project Number	XhSho-12		Pace Project Manager	ager:	Chris Pelosi/ Riley Jacobson	losi/ Ril	ey Jaco	pson		LOCATION	L	OH L SC	M		OTHER
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

DRINKING WATE Samples Intaci OTHER SAMPLE CONDITIONS OTHER MCES of Custody Sealed Cooler N/A N/A N/A N/A REGULATORY AGENCY M Page: N/DI/A Received on L SCL GROUND WATER I J. ni qmeT N N N HO 0000 1800 NC C TIME RCRA + Kendull Johnson × × L LOCATION iltered (Y/N) NPDES 5/5/21 SITE DATE 12/4/5 UST 5/5/5 ACCEPTED BY / AFFILIATION Sur Xcel 182S2O3 HOS Pelos: Chris Pelosi/ Riley Jacobson IOI EONH 1 1 Chris *osz respon + Steve Davis 3 2 4 3 # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT 1800 000 1540 ophi 5051 070 TIME 12/1/5 12/1/5 12/1/21 skipi DATE 12/4/21 ELINQUISHED BY / AFFILIATION DATE 12/4/5 COLLECTED ace Quote Reference: ace Project Manager TIME invoice Information company Name: Section C DATE 35 SAMPLE TYPE S=GRAB C=COMP NT O WT G WIG WIG 0 0 0 0 DIAM TW TW TW TW Riley Jacobson TW A TW MATRIX CODE Chris Pelosi Sh5n0-12 Required Project Information: Xcel urchase Order No. 2 H Strips: moustod DUPLICATE NPDES (P-938) roject Number Project Name: Section B Report To: MATRIX
DRAKING WATER
WATER
WASTE WATER
PRODUCT
OULD Copy To: * Sibnithing 30 Simples + 3 Dup + 3 RINSE - RUS 514/21 Required Client Information P=1164 P-174 P-178A P-178B 100 P-177 Environmental Services One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLEID Required Client Information: Fax: Requested Due Date/TAT: Additional Comments: Section D ddress: # Mati

Pace Analytical www.pacelabs.com

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Email To: Chris Pelosi Phone: (612) 597-7249 Requested Due Date/TAT: 2 Weeks Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0.9/) Sample IDs MUST BE UNIQUE	Copy To:						Stev	Steve Davis						REGULATORY AGENCY	TORY A	GENCY	
To: Chris Pelosi e:(672) 597-7294 Fax: Lested Due Date/TAT: 2 Weeks Section D Required Client Informat SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample IDs MUST BE UNIQUE		Riley Jacobson	LIC	Company Name	ame:						T	N L	NPDES 🔽	GROUND WATER	VATER	DRIN	DRINKING WATER
To: Chris Pelosi				Address:								T UST	L	RCRA	-	OTHE	OTHER MCES
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Pace Analytical" www.pacelebs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page Project No. Lab I.D. Q **DRINKING WATE** samples Intact N/A OTHER OTHER MCES SAMPLE CONDITIONS of Custody Sealed Cooler N/A N/A N/A N/A Page: 6 > N REGULATORY AGENCY Received on lce N/A NO N/A N/A <u>__</u> SCT GROUND WATER | J° ni qmeT NC WN LHOL TIME 0030 007/ RCRA Kendell Johnson LOCATION SITE NPDES Filtered (Y/N) 1/5/2 DATE UST × 12/4/5 . ACCEPTED BY / AFFILIATION lonsrileA مإ. Be EOSSEN XCC HOE Name of SAMPLER ZIEG Jacobson + Chris Pelos. Chris Pelosi/ Riley Jacobson 101 EONE *os* hpreserved Steve Davis # OF CONTAINERS 3 2 2 2 SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION TIME 000 1800 02m1 12/h/5 06/20 11615 5/3/21 0910 TIME 1650 5/4/21 12/1/5 144/2 DATE 5/3/11 RELINQUISHED BY / AFFILIATION DATE 12/11/5 COLLECTED ace Quote Reference: Pace Project Manager: TIME Spring Company Name: Section C DATE Attention: Address: Tace Xcel Energy Sherco 北 SAMPLE TYPE TWOO=3 BASE 0 0 O 9 0 Riley Jacobson TW TW TW TW TW MATRIX CODE Chris Pelosi 8h5h0-12 Required Project Information: urchase Order No. Jetstys: Moory 2.2°C roject Number DUPLICATE BAP2 (8-158 roject Name: DUPLICATE P3 (P-150) Section B Report To: MATRIX DRINGING WATER Copy To: *Submitting 30 Samples + 3 Dup + RINSE NPDES DUPLICATE BAF RINSE BAP2 RINSE P3 - Rus SI4/21 Environmental Services Section D Required Client Inform One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE SAMPLEID Xcel Energy Required Client Information: Fах: equested Due Date/TAT: 3 PANSE Additional Comments: hone; (612) 597-7254 mail To: Address: ITEM #



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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21 June 2021

Eric Ealy

Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis, MN 55401

RE: Sherco BAP2 CCR

Enclosed are the results of analyses for samples received by the laboratory on 06/11/2021 09:35. If you have any questions concerning this report, please feel free to contact me.

CC:

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Project Manager: Eric Ealy

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
P-175		MGF0113-03	Water	06/10/2021 11:35	06/11/2021 9:35



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/21/2021 09:46

P-175 MGF0113-03 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	ı Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	7.52	1.00	mg/L		1	BGF0343	6/16/21 7:06	6/16/21 14:22	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGF0343	6/16/21 7:06	6/16/21 14:22	EPA 300.0	CRL
Sulfate	66.3	1.00	mg/L		1	BGF0343	6/16/21 7:06	6/16/21 14:22	EPA 300.0	CRL
Wet Chemistry										
pH	7.88		pH Units	M_TTT	1	BGF0264	6/11/21 9:54	6/11/21 13:04	SM 4500-H+ B	HRD
Total Dissolved Solids	342	25.0	mg/L		1	BGF0275	6/14/21 9:01	6/14/21 9:01	SM 2540C	HSD
Total Suspended Solids	5.80	5.00	mg/L		1	BGF0274	6/14/21 6:31	6/14/21 6:31	SM 2540D	HSD
Total Metals by ICP										
Boron	0.161	0.0500	mg/L		1	BGF0278	6/14/21 7:36	6/16/21 17:26	EPA 200.7	HRD
Calcium	84.6	1.50	mg/L		1	BGF0278	6/14/21 7:36	6/16/21 17:24	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/21/2021 09:46

Anions by Ion Chromatography - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGF0343 - Wet Prep										
Blank (BGF0343-BLK1)				Prepared	& Analyze	d: 06/16/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGF0343-BLK2)				Prepared	& Analyze	d: 06/16/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
CS (BGF0343-BS1)				Prepared	& Analyze	d: 06/16/2	021			
Chloride	25.292	1.00	mg/L	25.000		101	90-110			
Fluoride	2.7060	0.750	mg/L	2.5000		108	90-110			
Sulfate	25.356	1.00	mg/L	25.000		101	90-110			
.CS (BGF0343-BS2)				Prepared	& Analyze	d: 06/16/2	021			
Chloride	25.533	1.00	mg/L	25.000		102	90-110			
Fluoride	2.7760	0.750	mg/L	2.5000		111	90-110			M_LCS-H
Sulfate	25.684	1.00	mg/L	25.000		103	90-110			
.CS (BGF0343-BS3)				Prepared	& Analyze	d: 06/16/2	021			
Chloride	25.577	1.00	mg/L	25.000		102	90-110			·
Fluoride	2.8560	0.750	mg/L	2.5000		114	90-110			M_LCS-H
Sulfate	25.694	1.00	mg/L	25.000		103	90-110			
CS (BGF0343-BS4)				Prepared:	06/16/202	21 Analyze	d: 06/18/2	021		
Chloride	24.176	1.00	mg/L	25.000		96.7	90-110			
Fluoride	2.2970	0.750	mg/L	2.5000		91.9	90-110			
Sulfate	24.034	1.00	mg/L	25.000		96.1	90-110			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

06/21/2021 09:46

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGF0343 - Wet Prep										
LCS (BGF0343-BS5)				Prepared:	06/16/202	21 Analyze	ed: 06/18/2	021		
Chloride	24.328	1.00	mg/L	25.000		97.3	90-110			
Fluoride	2.6140	0.750	mg/L	2.5000		105	90-110			
Sulfate	24.497	1.00	mg/L	25.000		98.0	90-110			
Duplicate (BGF0343-DUP1)	Sou	ırce: MGF011	3-01	Prepared	& Analyze	d: 06/16/2	021			
Chloride	45.576	1.00	mg/L		45.619			0.0943	20	
Fluoride	<0.750	0.750	mg/L		< 0.750				20	
Sulfate	33.820	1.00	mg/L		33.851			0.0916	20	
Duplicate (BGF0343-DUP2)	Sou	ırce: MGF011	3-02	Prepared	& Analyze	d: 06/16/2	021			
Chloride	11.379	1.00	mg/L		11.392			0.114	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	40.230	1.00	mg/L		40.263			0.0820	20	
Matrix Spike (BGF0343-MS1)	Sou	ırce: MGF011	3-01	Prepared	& Analyze	d: 06/16/2	021			
Chloride	76.500	1.25	mg/L	31.250	45.619	98.8	90-110			
Fluoride	3.3138	0.938	mg/L	3.1250	<0.938	106	90-110			
Sulfate	65.006	1.25	mg/L	31.250	33.851	99.7	90-110			
Matrix Spike (BGF0343-MS2)	Sou	ırce: MGF011	3-02	Prepared	& Analyze	d: 06/16/2	021			
Chloride	42.870	1.25	mg/L	31.250	11.392	101	90-110			
Fluoride	3.5600	0.938	mg/L	3.1250	<0.938	114	90-110			M_MS
Sulfate	71.821	1.25	mg/L	31.250	40.263	101	90-110			
Matrix Spike Dup (BGF0343-MSD1)	Sou	ırce: MGF011	3-01	Prepared	& Analyze	d: 06/16/2	021			
Chloride	76.820	1.25	mg/L	31.250	45.619	99.8	90-110	0.417	20	
Fluoride	3.4600	0.938	mg/L	3.1250	<0.938	111	90-110	4.32	20	M_MS
Sulfate	65.353	1.25	mg/L	31.250	33.851	101	90-110	0.531	20	



Analyte

Sulfate

Minneapolis Testing Laboratory 1518 Chestnut Ave N Minneapolis, MN 55043 Certification # MN-027-053-197 WI-999071150 Christine Keefe, Supervisor (612) 630-4506

RPD

Limit

20

Notes

RPD

1.24

%REC

Limits

90-110

Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Anions by Ion Chromatography - Quality Control

Spike

Level

31.250

Source

Result

40.263

%RFC

98.1

Reporting

Limit

1.25

Result

70.934

Batch BGF0343 - Wet Prep										
Matrix Spike Dup (BGF0343-MSD2)	Sour	ce: MGF011	3-02	Prepared	& Analyze	d: 06/16/2	2021			
Chloride	42.335	1.25	mg/L	31.250	11.392	99.0	90-110	1.26	20	
Fluoride	3.5700	0.938	mg/L	3.1250	<0.938	114	90-110	0.281	20	M_MS

mg/L

Units



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Wet Chemistry - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGF0264 - Wet Prep										
LCS (BGF0264-BS1)				Prepared	& Analyze	d: 06/11/2	2021			
pH	7.0900		pH Units	7.0000		101	90-110			
LCS (BGF0264-BS2)				Prepared	& Analyze	d: 06/11/2	2021			
pH	7.0700		pH Units	7.0000		101	90-110			
Duplicate (BGF0264-DUP1)	Soul	ce: MGF01	12-01	Prepared	& Analyze	d: 06/11/2	2021			
рН	7.6700		pH Units		7.6400			0.392	20	
Batch BGF0274 - Wet Prep										
Blank (BGF0274-BLK1)				Prepared	& Analyze	d: 06/14/2	2021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGF0274-BS1)				Prepared	& Analyze	d: 06/14/2	2021			
Total Suspended Solids	98.000	5.00	mg/L	109.10		89.8	70-130			
Duplicate (BGF0274-DUP1)	Sour	ce: MGF01	12-01	Prepared	& Analyze	d: 06/14/2	2021			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_K-06
Batch BGF0275 - Wet Prep										
Blank (BGF0275-BLK1)				Prepared	& Analyze	d: 06/14/2	2021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGF0275-BS1)				Prepared	& Analyze	d: 06/14/2	2021			
Total Dissolved Solids	108.00	25.0	mg/L	112.10		96.3	70-130			



Minneapolis Testing Laboratory 1518 Chestnut Ave N Minneapolis, MN 55043 Certification # MN-027-053-197 WI-999071150

Christine Keefe, Supervisor (612) 630-4506

Environmental Services-Water Minneapolis	Project Name/Location: Sherco BAP2 CCR	
250 Marquette Plaza		Reported:
Minneapolis MN, 55401	Project Manager: Eric Ealy	06/21/2021 09:46

Wet Chemistry - Quality Control

- [1
		Reporting		Spike	Source		%REC		RPD		l
	Analyte Res	ult Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

Batch	BGF0275	- Wet	Prep
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Duplicate (BGF0275-DUP1)	Source:	MGF0112	2-01	Prepared & Analyzed: 06/14/2021		
Total Dissolved Solids	444.00	25.0	mg/L	440.00	0.905	20



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 06/21/2021 09:46

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGF0278 - EPA 200.2, EPA 30	05									
Blank (BGF0278-BLK1)				Prepared	: 06/14/202	21 Analyze	ed: 06/16/2	.021		
Calcium	<1.50	1.50	mg/L							
Boron	<0.0500	0.0500	mg/L							
LCS (BGF0278-BS1)				Prepared	: 06/14/202	21 Analyze	ed: 06/16/2	.021		
Boron	1.1473	0.0500	mg/L	1.0000		115	85-115			
Calcium	104.52	1.50	mg/L	100.00		105	85-115			
Duplicate (BGF0278-DUP1)	Sou	rce: MGF011	2-01	Prepared	: 06/14/202	21 Analyze	ed: 06/16/2	.021		
Boron	0.035197	0.0500	mg/L		0.040627			14.3	20	
Calcium	93.241	1.50	mg/L		99.405			6.40	20	
Matrix Spike (BGF0278-MS1)	Sou	rce: MGF011	2-01	Prepared	: 06/14/202	21 Analyze	ed: 06/16/2	.021		
Boron	1.0118	0.0500	mg/L	1.0000	0.040627	97.1	70-130			
Calcium	202.07	1.50	mg/L	100.00	99.405	103	70-130			
Matrix Spike Dup (BGF0278-MSD1)	Sou	rce: MGF011	2-01	Prepared	: 06/14/202	21 Analyze	ed: 06/16/2	.021		
Boron	1.0135	0.0500	mg/L	1.0000	0.040627	97.3	70-130	0.169	20	
Calcium	202.99	1.50	mg/L	100.00	99.405	104	70-130	0.453	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Qualifiers and Definitions

M TTT	Sample received at the lab outside of required hold time.

M_MS The percent recovery and/or RPD were outside the acceptance limits for the MS/MSD due to possible matrix interference

and/or non-homogeneous sample matrix.

M_LCS-H The recovery of this analyte in the LCS was above the control limits. The sample result may be biased high.

M_K-06 The reporting limit has been increased, the reported result is acceptable. The maximum routine sample volume was used,

but the amount of residue measured was below reference method limits.

Z Non Accredited Analyte

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Pace Analytical" www.pacelebs.com

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Appendix B

Fall 2021 Detection Monitoring Event Field Datasheets and Laboratory Reports



uo	Client Xcel	Energy		Project	shee'	Pords	Fall 2021	Projec	ct No. 21	-05223
Presampling Information	Monitoring F	oint ID_	P-17					La	beled P	-17
ıforı	Inside Di	ameter	2	(inches)	Key#	2106	×	X Locked	d 🗆	Not Locked
ng Ir	Casing M	aterial:	N PVC	☐ Ste	eel		Stainless St	eel		
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Vell	Time Purged	14	40-1516				One Casi	ng Volume	7-95	Gallons
>	Pump Rate	9	0.25		GPM/L	PM	Volur	ne Purged	9	Gallons
	Date Sa	ampled	112/27		Fi	eld Pa	rameter	Measure	ments of	Sample
- 1		ampled				рН_	7.8	(units)	D.O	4 (mg/l)
	Sampling	Equip. P.	mp		Spec. C	Cond.	500	(μmhos/cm)	Turbidity	/. ((NTU)
Data	М	eter ID _M	185-7/TMS	Te	emp. Obse	erved _	9.7	(°C)	Eh	(NM) E31
J Br	Analy	zed by	RUS	_ Te	mp. Corre	ected_	9.8	(°C)	Other	der no obor
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n Te	1504 7	-	510		9,	_	le, 4	M	183	
atio	1516 7	.8	500	-	9.		6.4	ma	183	9
Stabilization Test	1314				1.	7			135	/
Stal							Res			
							11212			
					1					
	amples chilled imm	lediately af	ter collection:	×	Yes	Other				
	e/Affiliation of San	anlor(a):	7-10.1	ebs	Ĩ	Para A	nulytical			
valil	GAMMANON OF SAM	ihici(s).	2/2	OV SI			- Jime	7	T.	
L	ead Technician Si	gnature: 1	les /					Date:	11/2/	21
			11/10							



	Client X	icel Energia		Project	Shee Pe	bads f	Fall 2021	Projec	t No.	21-05223
men beschiption and i resampling information	Monitorir	ng Point ID_	P-152	A				La	beled	P-152A
	Inside	Diameter_	2	(inches)	Key #	2106		X Locked	d [Not Locked
	Casin	g Material:	PVC	☐ Ste	eel	☐ St	ainless Ste	eel		
		De	epth Meas	urement a	nd Eleva	tions	(from to	p of well	casing)	
1					Top of C	asing E	Elevation	NA		Feet , white
		4. 1					ell Depth_			Feet www.csr
į	C+		er level meas							_Feet J
h	36	atic water lev		Nater Level				VA.	16	Feet Feet
	Purge Met	thod Black	der Punp	vator Ecvo	Licvation	Deloie	r diging_	Pump ID	BPC-1	
	Date Pur		11/2/21				Wate	er Column		
Ì	Time Pur	ged 152	5-1534				One Casir	ng Volume	0.15	Gallons
	Pump F	Rate	0.05	(GPM)LP	M	Volun	ne Purged_	0,45	Gallons
	Date	Sampled	11/2/21		Fie	ld Pai	rameter	Measure	ments o	of Sample
Š	Time	Sampled _	1535			рН_		(units)	D.	O (mg/l)
I	Sampl	ing Equip	pmp. the He	2 "401	Spec. Co	ond.		(μmhos/cm)	Turbidi	ty(NTU)
Ì		Meter ID _!	MPS-7 IN	1-5 Te	mp. Obser	ved		(°C)	E	Eh(mV)
	Aı	nalyzed by _	R6)	_ Te	mp. Correc	cted		(°C)	Oth	er
	Weather Co	onditions Durescription:	ature Correcting Sampling the no	tion Factor: g: 40'F o) or removal to a	to-1	L. T	wes	der pmp	39.3 11 NOS	
	Time	pH (units)	Specifc Con	ductance	Temp (°0	C)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
	1528	8.0	43		8.5		6.8	NA	180	0 15
	1531									0.30
	1534									0.45
1										
Ì					0	in				
					117	12/21				
-	mples chilled	immediately a	fler collection:		Yes	Other				
	Revised 01/25/20				1703	Olliel				
m	e/Affiliation of	Sampler(s)	Riles	Jacobion	Pa	ce Ar	ialytical			
48	e/Affiliation of ead Technician		7/1	4 44 44.1			1.000			
Le	ead Techniciar	Signature:	light					Date:	11/2/	2 1
		<i>+</i>	10							



Monito							-05223
	oring Point ID_				7.27		-158
Ins	ide Diameter _	2 (inches)	Key #210	06	X Locked	1 🗆	Not Locked
Cas	sing Material:	▼ PVC	eel	Stainless St	eel		
Purge Monate For Time For Purge For	De	epth Measurement a	and Elevatio	ns (from to	p of well	casing)	
				ng Elevation			Feet
l)	A. W			Well Depth			Feet Justin esp
		er level measurement be el measurement at time				94	Feet J "
	Static water lev	Static Water Leve				19	Feet
Purge N	Method Bla	ulder Punap	, Liovalion Bo	oro r arging.	Pump ID	BPC-1	÷ 1119 507
Date F		12121		Wat	er Column		
Time F	ourged 17	45-1303	- ^	One Casin	ng Volume	1.01	Gallons
Pum	p Rate	0.2	GPM/LPM	Volur	me Purged_	3. Ce	Gallons
D	ate Sampled	11/2/21	Field I	Parameter	Measure	ments of	Sample
Ti	me Sampled _	1305	рН	7.4	(units)	D.O	8.2 (mg/l)
San	npling Equip. <u></u>		Spec. Cond	780	(µmhos/cm)	Turbidity	1,4 (NTU)
			emp. Observed			Eh	201 (mV)
100	Analyzed by	RUS TE	emp. Corrected	10.2	(°C)	Other	mt
San	nple for Soluble	Motale Filtered in Field					
Sample	Temper Conditions Dur Description:	Metals Filtered in Field ature Correction Factor ring Sampling: 40 ^{-F} , 5, creek as a second	: <u>to 1</u> °C		□ No	∑ NA	
Sample	Temper Conditions Dur Description:	ature Correction Factor ring Sampling: <u>40 ^F, S</u> ever no saw	: <u>to 1</u> °C	, 8MPH			Volume Purged
Sample	Temper Conditions Dur Description: Dbservations: pH (units)	sture Correction Factor ring Sampling: 40 , 5, creer no oder Specifc Conductance (µmhos/cm)	: <u>to 1</u> °C	D.O. (mg/l)		Eh (mV)	Volume Purged (cumulative gal)
Sample	Temper Conditions Dur Description: Dbservations: pH (units)	Specific Conductance (µmhos/cm)	Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh	
Sample	Temper Conditions Dur Description: Descriptions: PH (units) PH (units)	sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	(cumulative gal)
Sample	Temper Conditions Dur Description: Descriptions: PH (units) PH (units)	Specific Conductance (µmhos/cm)	Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV) ZOJ	(cumulative gal)
Sample	Temper Conditions Dur Description: Descriptions: PH (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8, 1	Turbidity (NTU) M	Eh (mV) 701	(cumulative gal) 1. Z 2 - 4
Time	Temper Conditions Dur Description: Descriptions: PH (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8, 1 8, 7	Turbidity (NTU) M	Eh (mV) 701	(cumulative gal) 1 · Z 2 - 4
Sample	Temper Conditions Dur Description: Descriptions: PH (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8, 1 8, 7	Turbidity (NTU) M	Eh (mV) 701	(cumulative gal) 1 · Z 2 - 4
Time 125) 1253	Temper Conditions Dur Description: Descriptions: PH (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8, 1 8, 7	Turbidity (NTU) M	Eh (mV) 701	1.2
Time 125) 1253 1303 Samples chillent Revised 01/2	Temper Conditions Dur Description: ph (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8. (8. 7 8. 7 11/2/21	Turbidity (NTU) M M M	Eh (mV) 701	(cumulative gal) 1 · Z 2 - 4
Time 125) 1253 1303 Samples chillent Revised 01/2	Temper Conditions Dure Description: pH (units) The ph (units) ph (units) ph (units) ph (units) ph (units)	sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8, 1 8, 2 8, 7	Turbidity (NTU) M M M	Eh (mV) 701	(cumulative gal) 1. Z 2. 4
Time 125) 1253 1303 camples chillent Revised 01/25	Temper Conditions Dur Description: ph (units) T. (sture Correction Factor ring Sampling: 40°, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Temp (°C) (observed)	D.O. (mg/l) 8. (8. 7 8. 7 11/2/21	Turbidity (NTU)	Eh (mV) 701	(cumulative gal) 1. Z 2. 4 3. Le



E .	Client X	icel Energi		Projec	t Shew	Pords	Fall 202	Proje	ct No.	21-05	223
Well Description and Presampling Information	Monitorin	ng Point ID_	P-173					L	abeled_	84470	7
nfor	Inside	e Diameter_	2	(inches)	Key#	2100	9	X Locke	d	☐ Not Lo	ocked
ng lı	Casin	g Material:	PVC	☐ St	eel		Stainless S	teel			
npli		De	epth Measi	urement a	and Elev	ation	s (from t	op of well	casing	1)	
esal							Elevation			Feet	
d Pr							Vell Depth				neural cor
anı	C4		er level meas							Feet.	1
tion	SI	alic water lev	el measurem Static \	vater Leve				-		Feet	
crip	Purge Me	thod Bladd	er Pump	vater Leve	Lievatio	ii beloi	e r diging	Pump ID		_	
Des	Date Pu		11/2/21				Wa	ter Column			Feet
Vell	Time Pur	rged 094	0-0955		-		One Cas	ing Volume	0 .	85	Gallons
>	Pump F	Rate	0.2		_GPM/L	.PM	Volu	me Purged			Gallons
	Date	e Sampled	11112	- L	F	eld Pa	aramete	r Measure	ements	of Sam	ple
		e Sampled			14.		7.5		D - Mark Strates		7 (mg/l)
	Samp	ling Equip. Ω	mp		Spec.			(µmhos/cm)		dity) . S	
Data			1PS.7/TM.	S Te	emp. Obs	erved	9.1	(°C)		Eh (٩	
g D	A	nalyzed by_	RUS	_ Te	emp. Corr	ected_	9.2	(°C)	Ott	her	1
Field Sampling	the second second		ments Temp.			X	Yes	☐ No	□ N	IA	
San	Samp		Metals Filter			1	Yes	☐ No	N N	IA	
ield	Weather C	remper onditions Dur	rature Correc ring Sampling	non Factor	16.1	- ' ,	10 64	01.1			
IL.	Sample D	escription:	laer no -	20	sinn	()	06-1741	14			
			& PUPLICAT		Calleet	d he	n @ 10	00 -RUS 11	hla		
			RINSE I								
Y")	Time	рН	Specifc Con	ductance	Temp	(°C)	D.O.	Turbidity	Eh		ume Purged
**		(units)	(µmhos		(obser		(mg/l)	(NTU)	(mV)	(cu	mulative gal)
Tes	0945	7.5	540		9,		8.0	M	190		1
tion	0956	7.5	54		9.		7.8	MA	191		2
Stabilization Test	0955	75	SUC)	9	./	7,7	M	191	-	3
tab											
a ,							10212				
							.,,				
Sa	amples chilled	immediately a	fter collection:	×	Yes	Othe	r				
	Revised: 01/25/20		07 1					V			
Nam	e/Affiliation of	Sampler(s):	Riley Ja	eobsur		ace f	Inalytica	l			
Ti-	ead Technicia		They	n				Data	/-	120	
L	ad redifficial	olgitature.	1					Date:	_ 11/2	14	-



uo	Client X	cel Energy		Projec	t_Shee	Pords	Fall 202	2 Proj	ect No.	21-0	5223
nati	Monitorin	g Point ID	7-174						abeled	844	706
forr	Inside	Diameter	2	(inches)	Key#	2100	6	X Lock	ed		t Locked
Well Description and Presampling Information	Casing	g Material:	N PVC	☐ St	_		Stainless				
nplir		De	epth Measu	rement a	and Elev	vation	s (from	top of we	II casin	g)	
sar					Top of	Casing	Elevation	on A	A	Fe	et , uhm
Pr						Total \	Well Dept	h8'	2.27	Fe	et www.cop
and			er level measu							Fe	
ion	Sta	atic water lev	el measureme						-48	Fe	
ript	B			later Leve	I Elevatio	n Befo	re Purgin	-		Fe	et
esc	Purge Met		der Pump		-0				BPC		F
II D	Date Pur Time Pur		12/21		- U			ater Colum sing Volum		79	Feet Gallons
We	Pump F		0.2		GPM/L	РМ		lume Purge		3	- Gallons Gallons
	T GITIP T		0.0								
		Sampled _	112/21		F			er Measui	2000000	-	
		Sampled _	1040	-			7.3	(units)		D.O_8	
-	Sampl	ing Equip		-			610	(µmhos/cm)	Turb	idity 7	The second secon
Data			MPG-7/TMS	-	emp. Obs			(°C)		Eh 10	
	Ar	nalyzed by _	RUS	_ Te	emp. Corr			_(°C)	С	ther	M
Field Sampling			ments Temp.				Yes	☐ No		NA	
Sar	Sampl		Metals Filtererature Correcti			.0	Yes	☐ No	Ш	NA	0.1
eld	Weather Co		ring Sampling				120001				
ii.			her nosos		mny,	, 10 6	LIDMPH				
		servations:								-	
			0-0								
	A. a.	рН	Specifc Cond	uctance	Temp	(°C)	D.O.	Turbidity	Er		Volume Purged
	Time	(units)	(μmhos/c	2.4	(obser	47-1-4	(mg/l)	(NTU)	(m\		(cumulative gal)
Stabilization Test	1075	7.4	620		9.	7	8,2	M	19		
e e	1030	7.3	620)	5. (e	8.1	MA	191	0	2
zati	1035	7.3	610		9.1	Le	8.0	NA	19	7	3
abili	-						Pu				
St							11/2/21				
										-	
9	amples chilled	immediately a	fler collection:	I.	Yes [Othe	ar.				
	Revised 01/25/20		ner concenter.		1 /c3 L		-				
Nam	e/Affiliation of	Sampler(e)	7-6	bsur		Par 1	Analytic	a l			
*aiii	C/Anniation of	Janipier(s)	Kiley Jace	VSC		, /		**,			
L	ead Techniciar	Signature:	Volunt	1				Date	e:/2	121	
		7	11011						-4/2		



uo	Client X	icel Energy	4	Project	Shew Pords	Fall 202	Projec	ct No. 21	-05223
mati	Monitorin	g Point ID	P-175				La	beled 8	14705
ıforı	Inside	Diameter	2	(inches)	Key# 210	5	X Locked	d 🗆	Not Locked
Well Description and Presampling Information	Casing	g Material:	X PVC	☐ Ste	el 🗌	Stainless \$	Steel		
nplii			epth Measur	ement a	nd Elevation	s (from	top of well	casing)	
esar					Top of Casing	Elevation	n <i>NA</i>		Feet) www (10)
1 Pr						Well Depti			Feet www.
and	01		ter level measur						FeetJ
tion	Sta	atic water is	vel measureme		or sampling (Fi Elevation Befo				Feet Feet
crip	Purge Met	thod B	ladder Pump	ater Lever	Lievation belo	re r urgin	Pump ID	BPC-2	1 661
Des	Date Pur		11/4/21			Wa	ater Column		Feet
Vell	Time Pur	ged ju	110 - 1450			One Cas	sing Volume	0.70	Gallons
	Pump F	Rate	0.10		GPM) LPM	Vol	ume Purged	3.5	Gallons
	Date	e Sampled	114/2		Field P	aramete	er Measure	ments of	Sample
	Time	Sampled_	1500		рН	7.6	_(units)	D.O	7·1 (mg/l)
	Sampl	ing Equip	0 1		Spec. Cond.	460	_(µmhos/cm)	Turbidity	(NTU)
Data			MPS-GTM-C		mp. Observed	11.0	_(°C)		
	Ar	nalyzed by_	Car	Ter	np. Corrected	11.1	_(°C)	Other	len no clor
Field Sampling			ements Temp. C			Yes	☐ No	□ NA	
Sal	Sampi		le Metals Filtere erature Correction		- (1)	Yes	☐ No	□ NA	
ielo	Weather Co		uring Sampling:			50	Smah		
		escription:	ilur no		, ,				
	Obs	servations:	* removed bladde						
	Bladler mapro	≈ 1 Or	* NO SAPET	EE Put	1PED - 700	1000 0	FVOL.	Topol BP.	- 81.83ft "/4/21
	Time	pH (units)	Specifc Condu	C1 - C10 - C	Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)
st	1418	7.6	460		11.0	7.0	NA	152	0.70
Stabilization Test	1426	7.6	460		11.0	6.8	1	153	1.40
zatic	1434	7.6	460		10.9	7.1		155	2.10
billiz	1442	7.6	460		11.0	7.1		156	2.80
Sta	1450	7.6	460		11.0	7.1		157	3.50
					W 114	12			
Sa	amples chilled	immediately	after collection:	Г×	Yes Oth				
	Revised: 01/25/20				*				
Nam	e/Affiliation of	Sampler(s):	Chn, Pel	(d)	Pace,	Analytic	ul		
L	ead Techniciar	n Signature:	Cen	DL			Date:	11/4/21	
	purged 5	tolomes 1	our clent request.	८५० माम्राय					



uo	Client Xce	1 Energy		_ Proje	ct Shew	Pords F	all 2021	Projec	t No	21-05223
mati	Monitoring	Point ID_	P-176					La	beled_	844703
ıforı	Inside D	iameter	2	(inches)	Key#	2106		X Locked	1	☐ Not Locked
Well Description and Presampling Information	Casing N	Material:	PVC		teel	☐ St	ainless Ste	eel		
mpli		D	epth Measu	irement	and Ele	vations	(from to	p of well	casing	9)
esa							levation_			Feet W//4
P		Ct - t' t	district and see				II Depth_			Feet was up
ı an	100000		er level measi el measurem			200	_			Feet Land (mad) (1/4/2)
otioi	Otati	c water lev			el Elevatio		_	NA	,,,	Feet
scrip	Purge Metho	od P	Stadder Pin					Pump ID	GP-2	,
Des	Date Purge		114/21				Wate	er Column	4.8	Feet Feet
Nell	Time Purge			5-1635				ng Volume		80 Gallons
	Pump Ra	te	0.10		_(GPM)	-PM	Volun	ne Purged	10 +	Gallons
	Date S	Sampled_	ulelm		F	ield Par	ameter	Measure	ments	of Sample
	Time S	Sampled _	855 16	40		pH_	7.5	(units)	I	D.O (mg/l)
		g Equip	•			Cond.		(μmhos/cm)	Turbi	dity 2.9 (NTU)
Data	the second secon		1PS-6 TM-6		emp. Obs	_		(°C)	1.0	Eh 165 (mV)
ng	Ana	lyzed by_	CJP	_ 1	emp. Cori	_		(°C)	Ot	ther der no offer
npli			ments Temp.			X Ye		□ No	-	NA
Field Sampling	Sample		Metals Filter ature Correct			S.C.	es	☐ No	N	NA
ield	Weather Con				_	n. ml				
							NTV & e	nd bladler on	up purge	I st. doudy -> clear.
	Obser	vations.	* removed h	ladder pur	up to me	warre SW	L -	Top of B	ladder	Pump @ 78.51
	Margan & Mountour	S +	* NO SAMP	LE PUM	PED - TO	00 10m	OF VO	04	OF B	lubber Promp 14/21 - 81.80
	Time	pH (units)	Specifc Cond		Temp		D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	
ist S	@1418 1603	7.7	(μmhos/	citi)	(obser	(69-76	NA	169	
T L	@1426 1611	7.5	590		12.		7.6	1	164	
zatic	O) 434 1619	7.5	590		. 12.	2	7.6	-34-1	163	
Stabilization Test	0/42 1627	7.5	590		12.	2	7.6		163	
ž,	01450 1635	7.5	590		12	2	7.5	1	160	4.0
					(2)				
S	amples chilled im	mediately a	fter collection:		× Yes	Other				
	Revised 01/25/2021 e/Affiliation of Sa	impler(s):	Chr. Pu	Liv		Pace An	alytical			
		- V C C	00	17					,, /.	ulz
L	ead Technician S	signature: _	()00)			111 -		Date:	11/9	<i>y</i> 4
0	urged 3 volum	with s	ubnusible gru	rulfes prim	p to cleiv	will 6	1520	_ 1550	11/9	1/zi
. 8	1 (0) 00					H	15	wel w/	bladder	pump before collecting s



uo	Client X	cel Enero	4	Project	Sheo Pords	Fall 2021	Proje	ct No. 21	-05223	
mati	Monitorin	g Point ID	P-177				La	beled g	44704	
nfor	Inside	Diameter	2	(inches)	Key # 210	6	X Locked	d 🗆	Not Locked	
ng li	Casing	g Material:	N PVC	☐ Ste	eel 🗌	Stainless St	teel			
Well Description and Presampling Information		I	Depth Measur	ement a	ind Elevation	ns (from to	op of well	casing)		
esal					Top of Casin	구시에 보다 시네네트			Feet Twastra	tı
d Pr		01-1:				Well Depth			- 1	
n an	Sta		ter level measureme						Feet J	
ptio	0.0	ano water n			Elevation Befo		-		Feet	
scri	Purge Met	hod_Bla	Wer Pimp				Pump ID	BPC-		
l De	Date Pur	-	114/21				er Column			
Wel			1450-1515		GPM) LPM		ng Volume			
	Pump F	kate	0.15	(GPM) LPM	Volui	me Purged	3.7	Gallons	_
100	Date	Sampled	Supertetar 1	14/25	Field F	Parameter	Measure	ments of	Sample	
		Sampled	_	20		7.5	(units)		10.3 (mg/l)	
es es	Sampl	ing Equip.		-	Spec. Cond.		(µmhos/cm)		2, 7 (NTU)	
Data	Λ.	Meter ID alyzed by	MPS-7/7M5		mp. Observed		(°C)		203 (mV)	
ling					mp. Corrected		.(°C)		v.A	-
Field Sampling			ements Temp. (le Metals Filtere			Yes	☐ No	□ NA NA		
S p			erature Correction		. (-			
Fiel			uring Sampling:	48t S	Sonny 5	e13MPV	1			
	Sample D						^	0	¥.	1
	Obs	ervations:	3/141		mp to measur				led after DK leng	
	-									Med
	Time	pH (units)	Specifc Condu (µmhos/c		Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Eh (mV)	Volume Purged (cumulative gal)	Po
est	1455	7.4	530		10.9	10.3	M	204	0.75	
T uc	1500	7.4	530	je .	10.9	103	MA	204	1.50	
Stabilization Test	1505	7.5	570	2	11.0	10-4	M	204	2.25	
ilide	1510	7.5	520		11.0	104	M	703	3.00	
Str	1515	7.5	510		11.0	10.3	NA	203	3 75	
						114/21				
S	amples chilled	immediately	after collection:	Ī ∇	Yes Ott					7
	Revised: 01/25/20		/] 1000	101				_
Nam	e/Affiliation of	Sampler(s):	Riley Tacot	Sur	Pace	Analytica	1			
			71)					,	
L	ead Techniciar	Signature:	Asleyt	n			Date:	11/4/	11	



		0 10			ds Fall 2021			-05223				
	nitoring Point ID			5.8 Su = =		- 550	beled P-					
'	nside Diameter	2	(inches)		106	X Locked	g []	Not Locked				
C	Casing Material:	× PVC	Ste		Stainless St							
		Depth Measi	urement a									
					ing Elevation			Feet Tuessed				
	Statio	ater level meas	uromont ho		al Well Depth			Feet Mensures				
		evel measurem			and the second second			Feet				
	orano mator n				efore Purging	-		Feet				
Purge	e Method 31	adder Pump	17.00			Pump ID	BPC-1					
Date	e Purged	11/21			Wat	ter Column	4.60	Feet				
N .	The state of the s	345-1357	}			ng Volume						
Pu	ımp Rate	0.2		GPM / LPM	Volu	me Purged	2.4	Gallons				
	Date Sampled	ulclai		Field	Parameter	Measure	ments of	Sample				
	Time Sampled	1400		p	H 7.6	(units)	D.O	2.3 (mg/l)				
S	ampling Equip.	Purp + GH	4	Spec. Con	d. 510	(µmhos/cm)	Turbidity	2:0 (NTU)				
		MPS-7/TM 5	_	mp. Observe		(°C)	Eh	190 (mV)				
	Analyzed by (C) Temp. Corrected 9 9 (°C) Other M4 Field Measurements Temp. Corrected: X Yes No NA											
0	Field Moseur	omonte Tomp	Corrected:	F	XI Voc	□ No	ПМА					
l l	sample for Solub Temp	le Metals Filter erature Correc	ed in Field: tion Factor:	to 1 °	Yes Yes	□ No □ No	□ NA □ NA					
Weath	ample for Solub Temp ner Conditions D	le Metals Filter erature Correct uring Sampling	red in Field: tion Factor: g: <u></u>	to 1 °	Yes	□ No						
Weath	tample for Solub Temp ner Conditions D ple Description:	erature Correct uring Sampling	red in Field: tion Factor: g: <u>40⁶, fo</u>	to 1 °C	X Yes	□ No	□ NA	271				
Weath	ample for Solub Temp ner Conditions D	erature Correct uring Sampling	red in Field: tion Factor: g: <u>40⁶, fo</u>	to 1 °C	X Yes	□ No	□ NA	2.71 '				
Weath Samp	Temp ner Conditions D ple Description: Observations:	erature Correct uring Sampling	red in Field: tion Factor: a: 40°, fo	to 1 °C	X Yes	□ No	□ NA					
Weath Samp	remple for Solub Temp ner Conditions D ple Description: Observations:	erature Correcturing Sampling ** blulle pur Specifc Cone (jumhos)	red in Field: tion Factor: g: 40 ^f , fo	to 1 °C) Temp (°C) (observed)	D.O. (mg/l)	Turbidity (NTU)	Pune - 4' Eh (mV)	Volume Purgeo (cumulative gal)				
Weath Samp	remple for Solub Templer Conditions Dole Description: Observations: pH (units)	Ple Metals Filter erature Correct uring Sampling stee 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	red in Field: tion Factor: g: 40°, fo	to 1 °C (observed)	D.O. (mg/l)	No No	NA Pump - 4'	Volume Purgeo				
Weath Samp	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) pH (units)	Specific Con- (µmhoss	red in Field: tion Factor: g: 40°, fo	thy Sunary the Mayore S Temp (°C) (observed) 7. 5 7. 8	D.O. (mg/l) 7.3	Turbidity (NTU)	Eh (mV)	Volume Purgeo (cumulative gal)				
Weath Samp	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) pH (units)	Ple Metals Filter erature Correct uring Sampling stee 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	red in Field: tion Factor: g: 40°, fo	to 1 °C (observed)	D.O. (mg/l)	Turbidity (NTU)	NA Pump - 4'	Volume Purgeo (cumulative gal)				
Weath Samp	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) pH (units)	Specific Con- (µmhoss	red in Field: tion Factor: g: 40°, fo	Temp (°C) (observed) 7. 7 9. 8	D.O. (mg/l) 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purgeo (cumulative gal)				
Weath Samp	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) pH (units)	Specific Con- (µmhoss	red in Field: tion Factor: g: 40°, fo	Temp (°C) (observed) 7. 7 9. 8	D.O. (mg/l) 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal)				
Weath Samp	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) pH (units)	Specific Con- (µmhoss	red in Field: tion Factor: g: 40°, fo	Temp (°C) (observed) 7. 7 9. 8	D.O. (mg/l) 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal)				
Weath Samp Tim 13 4 13 5	remple for Solub Templer Conditions Deple Description: Observations: pH (units) 7 7 7 4	Specific Con- (jumhos)	red in Field: tion Factor: a: 40°, fo	Temp (°C) (observed) 7. 5 9. 8	D.O. (mg/l) 7.3 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal)				
Weath Samp Tim 13 4 13 5	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) 7 7 7 4 7 7 4 hilled immediately	Specific Con- (jumhos)	red in Field: tion Factor: a: 40°, fo	Temp (°C) (observed) 7. 5 9. 8	D.O. (mg/l) 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal)				
Tim 13 4 13 5 13 5	remple for Solub Temp ner Conditions Dole Description: Observations: Per ph (units)	Specific Concumbos Specific Concumbos STOD STOD STOD Stop After collection:	red in Field: tion Factor: g: 40°, fo	to 1 °C (observed) 7. 5 9. 8 9. 8 Yes (C)	D.O. (mg/l) 7.3 7.3 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal)				
Weath Samp Tim 13 4 13 5 13 5	remple for Solub Temple of Conditions Dole Description: Observations: pH (units) 7 7 7 4 7 7 4 hilled immediately	Specific Concumbos Specific Concumbos STOD STOD STOD Stop After collection:	red in Field: tion Factor: g: 40°, fo	to 1 °C (observed) 7. 5 9. 8 9. 8 Yes (C)	D.O. (mg/l) 7.3 7.3 7.3	Turbidity (NTU) MA MA	Eh (mV)	Volume Purged (cumulative gal) 0 - 8 1, 4 2 - 4				





03 December 2021

Eric Ealy

Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis, MN 55401

RE: Sherco BAP2 CCR

Enclosed are the results of analyses for samples received by the laboratory on 11/03/2021 07:20-11/05/2021 09:00. If you have any questions concerning this report, please feel free to contact me.

CC:

I certify that this analysis report was prepared under my direction or supervision under a system designed to assure that qualified personnel analyzed the submitted samples. All protocols for analysis were followed as required by Minnesota Rules and the Applicable Management Plan.

Sincerely,

Steve Davis

Project Manager



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sample Qualifier	Laboratory ID	Matrix	Sampled	Received
P-17		MGK0016-03	Water	11/02/2021 15:20	11/03/2021 7:20
P-158		MGK0016-30	Water	11/02/2021 13:05	11/03/2021 7:20
P-173		MGK0016-31	Water	11/02/2021 10:00	11/03/2021 7:20
P-174		MGK0016-32	Water	11/02/2021 10:40	11/03/2021 7:20
P-178A		MGK0016-33	Water	11/02/2021 14:00	11/03/2021 7:20
Duplicate CCR-BAP2		MGK0016-39	Water	11/02/2021 10:00	11/03/2021 7:20
Rinse CCR-BAP2		MGK0016-40	Water	11/02/2021 10:05	11/03/2021 7:20
P-175		MGK0033-18	Water	11/04/2021 15:00	11/05/2021 9:00
P-176		MGK0033-19	Water	11/04/2021 16:40	11/05/2021 9:00
P-177		MGK0033-20	Water	11/04/2021 15:20	11/05/2021 9:00



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-17 MGK0016-03 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograph	у									
Chloride	15.1	1.00	mg/L		1	BGK0080	11/3/21 8:59	11/3/21 12:59	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0080	11/3/21 8:59	11/3/21 12:59	EPA 300.0	CRL
Sulfate	18.9	1.00	mg/L		1	BGK0080	11/3/21 8:59	11/3/21 12:59	EPA 300.0	CRL
Wet Chemistry										
рН	7.78		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 10:03	SM 4500-H+ B	CRL
Total Dissolved Solids	290	25.0	mg/L		1	BGK0082	11/4/21 9:13	11/4/21 9:13	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0081	11/4/21 6:45	11/4/21 6:45	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 13:48	EPA 200.7	HRD
Calcium	64.0	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 13:45	EPA 200.7	HRD



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

P-158 MGK0016-30 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	9.04	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 14:41	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 14:41	EPA 300.0	CRL
Sulfate	120	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 14:41	EPA 300.0	CRL
Wet Chemistry										
pH	7.71		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 13:10	SM 4500-H+ B	CRL
Total Dissolved Solids	488	25.0	mg/L		1	BGK0134	11/6/21 8:45	11/6/21 8:45	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0133	11/6/21 6:43	11/6/21 6:43	SM 2540D	HSD
Total Metals by ICP										
Boron	0.853	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:10	EPA 200.7	HRD
Calcium	103	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:08	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-173 MGK0016-31 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography	,						<u> </u>			
Chloride	5.67	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:02	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:02	EPA 300.0	CRL
Sulfate	26.0	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:02	EPA 300.0	CRL
Wet Chemistry										
pH	7.78		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 13:24	SM 4500-H+ B	CRL
Total Dissolved Solids	288	25.0	mg/L		1	BGK0160	11/7/21 8:39	11/7/21 8:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0159	11/7/21 6:30	11/7/21 6:30	SM 2540D	HSD
Total Metals by ICP										
Boron	0.134	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:17	EPA 200.7	HRD
Calcium	71.9	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:14	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-174 MGK0016-32 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	ı Batch	Prepared	Analyzed	Method	Analyst
							opa. oa			
Anions by Ion Chromatograp	phy									
Chloride	< 1.00	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:23	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:23	EPA 300.0	CRL
Sulfate	23.3	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:23	EPA 300.0	CRL
Wet Chemistry										
pH	7.68		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 13:28	SM 4500-H+ B	CRL
Total Dissolved Solids	334	25.0	mg/L		1	BGK0160	11/7/21 8:39	11/7/21 8:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0159	11/7/21 6:30	11/7/21 6:30	SM 2540D	HSD
Total Metals by ICP										
Boron	0.166	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:23	EPA 200.7	HRD
Calcium	82.8	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:20	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-178A MGK0016-33 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatograp	hy									
Chloride	3.40	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:43	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:43	EPA 300.0	CRL
Sulfate	44.4	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 15:43	EPA 300.0	CRL
Wet Chemistry										
pH	7.89		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 13:34	SM 4500-H+ B	CRL
Total Dissolved Solids	268	25.0	mg/L		1	BGK0160	11/7/21 8:39	11/7/21 8:39	SM 2540C	HSD
Total Suspended Solids	6.80	5.00	mg/L		1	BGK0159	11/7/21 6:30	11/7/21 6:30	SM 2540D	HSD
Total Metals by ICP										
Boron	0.201	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:29	EPA 200.7	HRD
Calcium	38.5	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:26	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Duplicate CCR-BAP2 MGK0016-39 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilution	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	5.65	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 17:47	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 17:47	EPA 300.0	CRL
Sulfate	25.9	1.00	mg/L		1	BGK0089	11/3/21 12:20	11/4/21 17:47	EPA 300.0	CRL
Wet Chemistry										
рН	7.83		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 14:05	SM 4500-H+ B	CRL
Total Dissolved Solids	292	25.0	mg/L		1	BGK0160	11/7/21 8:39	11/7/21 8:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0159	11/7/21 6:30	11/7/21 6:30	SM 2540D	HSD
Total Metals by ICP										
Boron	0.132	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:51	EPA 200.7	HRD
Calcium	68.7	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 15:49	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Rinse CCR-BAP2 MGK0016-40 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	< 1.00	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 12:28	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 12:28	EPA 300.0	CRL
Sulfate	< 1.00	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 12:28	EPA 300.0	CRL
Wet Chemistry										
pH	6.27		pH Units	M_TTT	1	BGK0079	11/3/21 8:57	11/3/21 14:08	SM 4500-H+ B	CRL
Total Dissolved Solids	< 25.0	25.0	mg/L	M_K-06	1	BGK0160	11/7/21 8:39	11/7/21 8:39	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0159	11/7/21 6:30	11/7/21 6:30	SM 2540D	HSD
Total Metals by ICP										
Boron	< 0.0500	0.0500	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 14:41	EPA 200.7	HRD
Calcium	< 1.50	1.50	mg/L		1	BGK0135	11/5/21 7:36	11/8/21 14:38	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-175 MGK0033-18 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutior	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.31	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:23	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:23	EPA 300.0	CRL
Sulfate	26.0	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:23	EPA 300.0	CRL
Wet Chemistry										
pH	7.73		pH Units	M_TTT	1	BGK0141	11/5/21 9:39	11/5/21 12:04	SM 4500-H+ B	CRL
Total Dissolved Solids	266	25.0	mg/L		1	BGK0174	11/9/21 8:57	11/9/21 8:57	SM 2540C	HSD
Total Suspended Solids	< 5.00	5.00	mg/L	M_K-06	1	BGK0173	11/9/21 6:59	11/9/21 6:59	SM 2540D	HSD
Total Metals by ICP										
Boron	0.189	0.0500	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:32	EPA 200.7	HRD
Calcium	68.8	1.50	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:30	EPA 200.7	HRD



Environmental Services-Water Minneapolis

Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

12/03/2021 09:20

P-176 MGK0033-19 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	3.59	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:44	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:44	EPA 300.0	CRL
Sulfate	66.0	1.00	mg/L		1	BGK0142	11/5/21 9:40	11/5/21 20:44	EPA 300.0	CRL
Wet Chemistry										
pH	7.68		pH Units	M_TTT	1	BGK0141	11/5/21 9:39	11/5/21 12:08	SM 4500-H+ B	CRL
Total Dissolved Solids	370	25.0	mg/L		1	BGK0174	11/9/21 8:57	11/9/21 8:57	SM 2540C	HSD
Total Suspended Solids	15.6	5.00	mg/L		1	BGK0173	11/9/21 6:59	11/9/21 6:59	SM 2540D	HSD
Total Metals by ICP										
Boron	0.478	0.0500	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:48	EPA 200.7	HRD
Calcium	78.2	1.50	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:46	EPA 200.7	HRD



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

P-177 MGK0033-20 (Water) - Chain of Custody Number: Pace

Analyte	Result	Reporting Limit	Units	Analyte Qualifier	Dilutio	n Batch	Prepared	Analyzed	Method	Analyst
Anions by Ion Chromatography										
Chloride	2.08	1.00	mg/L		1	BGK0172	11/8/21 7:31	11/8/21 10:05	EPA 300.0	CRL
Fluoride	< 0.750	0.750	mg/L		1	BGK0172	11/8/21 7:31	11/8/21 10:05	EPA 300.0	CRL
Sulfate	28.1	1.00	mg/L		1	BGK0172	11/8/21 7:31	11/8/21 10:05	EPA 300.0	CRL
Wet Chemistry										
pH	7.71		pH Units	M_TTT	1	BGK0141	11/5/21 9:39	11/5/21 12:12	SM 4500-H+ B	CRL
Total Dissolved Solids	282	25.0	mg/L		1	BGK0174	11/9/21 8:57	11/9/21 8:57	SM 2540C	HSD
Total Suspended Solids	14.4	5.00	mg/L		1	BGK0173	11/9/21 6:59	11/9/21 6:59	SM 2540D	HSD
Total Metals by ICP										
Boron	0.0976	0.0500	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:54	EPA 200.7	HRD
Calcium	66.5	1.50	mg/L		1	BGK0162	11/6/21 9:11	11/8/21 17:51	EPA 200.7	HRD



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

12/03/2021 09:20

A1.4-	Danist.	Reporting	l leite	Spike	Source	0/ DEC	%REC	DDD	RPD	Nata -
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0080 - Wet Prep										
Blank (BGK0080-BLK1)				Prepared	& Analyze	d: 11/03/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGK0080-BLK2)				Prepared	& Analyze	d: 11/03/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGK0080-BS1)				Prepared	& Analyze	d: 11/03/2	021			
Chloride	24.494	1.00	mg/L	25.000		98.0	90-110			
Fluoride	2.3360	0.750	mg/L	2.5000		93.4	90-110			
Sulfate	24.425	1.00	mg/L	25.000		97.7	90-110			
LCS (BGK0080-BS2)				Prepared	& Analyze	d: 11/03/2	021			
Chloride	24.618	1.00	mg/L	25.000		98.5	90-110			
Fluoride	2.3750	0.750	mg/L	2.5000		95.0	90-110			
Sulfate	24.609	1.00	mg/L	25.000		98.4	90-110			
LCS (BGK0080-BS3)				Prepared	& Analyze	d: 11/03/2	021			
Chloride	24.719	1.00	mg/L	25.000		98.9	90-110	<u> </u>		
Fluoride	2.3860	0.750	mg/L	2.5000		95.4	90-110			
Sulfate	24.721	1.00	mg/L	25.000		98.9	90-110			
Duplicate (BGK0080-DUP1)	So	urce: MGK00	16-06	Prepared	& Analyze	d: 11/03/2	021			
Chloride	6.8730	1.00	mg/L		6.8860			0.189	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	40.562	1.00	mg/L		40.609			0.116	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,	rtodit	Liiiik		20101	rtocan	701120	Liiiito	- 111 5	Liiiik	110100
Batch BGK0080 - Wet Prep										
Duplicate (BGK0080-DUP2)	Sou	rce: MGK00	16-07	Prepared	& Analyze	d: 11/03/2	021			
Chloride	12.976	1.00	mg/L		12.969			0.0540	20	
Fluoride	< 0.750	0.750	mg/L		< 0.750				20	
Sulfate	61.723	1.00	mg/L		61.596			0.206	20	
Matrix Spike (BGK0080-MS1)	Sou	rce: MGK00	16-06	Prepared	& Analyze	d: 11/03/2	021			
Chloride	37.686	1.25	mg/L	31.250	6.8860	98.6	90-110			
Fluoride	3.0350	0.938	mg/L	3.1250	<0.938	97.1	90-110			
Sulfate	71.719	1.25	mg/L	31.250	40.609	99.6	90-110			
Matrix Spike (BGK0080-MS2)	Sou	rce: MGK00	16-07	Prepared	& Analyze	d: 11/03/2	021			
Chloride	44.711	1.25	mg/L	31.250	12.969	102	90-110			
Fluoride	3.1325	0.938	mg/L	3.1250	<0.938	100	90-110			
Sulfate	93.064	1.25	mg/L	31.250	61.596	101	90-110			
Matrix Spike Dup (BGK0080-MSD1)	Sou	rce: MGK00	16-06	Prepared	& Analyze	d: 11/03/2	021			
Chloride	37.923	1.25	mg/L	31.250	6.8860	99.3	90-110	0.625	20	
Fluoride	3.0713	0.938	mg/L	3.1250	< 0.938	98.3	90-110	1.19	20	
Sulfate	71.918	1.25	mg/L	31.250	40.609	100	90-110	0.277	20	
Matrix Spike Dup (BGK0080-MSD2)	Sou	rce: MGK00	16-07	Prepared	& Analyze	d: 11/03/2	021			
Chloride	44.060	1.25	mg/L	31.250	12.969	99.5	90-110	1.47	20	
Fluoride	3.0600	0.938	mg/L	3.1250	<0.938	97.9	90-110	2.34	20	
Sulfate	92.738	1.25	mg/L	31.250	61.596	99.7	90-110	0.351	20	
Batch BGK0089 - Wet Prep										
Blank (BGK0089-BLK1)				Prepared:	11/03/202	21 Analyze	d: 11/04/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0089 - Wet Prep										
Blank (BGK0089-BLK2)				Prepared:	11/03/202	1 Analyze	d: 11/04/2	021		
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGK0089-BS1)				Prepared:	11/03/202	1 Analyze	ed: 11/04/2	021		
Chloride	24.659	1.00	mg/L	25.000		98.6	90-110			
Fluoride	2.4170	0.750	mg/L	2.5000		96.7	90-110			
Sulfate	24.681	1.00	mg/L	25.000		98.7	90-110			
LCS (BGK0089-BS2)				Prepared:	11/03/202	1 Analyze	ed: 11/04/2	021		
Chloride	24.534	1.00	mg/L	25.000		98.1	90-110			
Fluoride	2.3760	0.750	mg/L	2.5000		95.0	90-110			
Sulfate	24.578	1.00	mg/L	25.000		98.3	90-110			
LCS (BGK0089-BS3)				Prepared:	11/03/202	1 Analyze	d: 11/04/2	021		
Chloride	23.532	1.00	mg/L	25.000		94.1	90-110			
Fluoride	2.2740	0.750	mg/L	2.5000		91.0	90-110			
Sulfate	23.548	1.00	mg/L	25.000		94.2	90-110			
Duplicate (BGK0089-DUP1)	Sour	ce: MGK00	16-22	Prepared:	11/03/202	1 Analyze	ed: 11/04/2	021		
Chloride	12.567	1.00	mg/L		12.555			0.0955	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	26.057	1.00	mg/L		26.019			0.146	20	
Duplicate (BGK0089-DUP2)	Sour	ce: MGK00	16-23	Prepared:	11/03/202	1 Analyze	d: 11/04/2	021		
Chloride	22.513	1.00	mg/L		22.488			0.111	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	90.341	1.00	mg/L		90.155			0.206	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
•	resuit	Liiiik	Office	LOVOI	rtesuit	701120	Limito	TUB	Lillie	110103
Batch BGK0089 - Wet Prep										
Matrix Spike (BGK0089-MS1)	Sour	ce: MGK00	16-22	Prepared:	11/03/202	1 Analyze	ed: 11/04/2	.021		
Chloride	44.318	1.25	mg/L	31.250	12.555	102	90-110			
Fluoride	3.1450	0.938	mg/L	3.1250	<0.938	101	90-110			
Sulfate	58.079	1.25	mg/L	31.250	26.019	103	90-110			
Matrix Spike (BGK0089-MS2)	Sour	ce: MGK00	16-23	Prepared:	11/03/202	21 Analyze	ed: 11/04/2	.021		
Chloride	54.025	1.25	mg/L	31.250	22.488	101	90-110			
Fluoride	3.1238	0.938	mg/L	3.1250	<0.938	100	90-110			
Sulfate	121.31	1.25	mg/L	31.250	90.155	99.7	90-110			
Matrix Spike Dup (BGK0089-MSD1)	Sour	ce: MGK00	16-22	Prepared:	11/03/202	21 Analyze	ed: 11/04/2	2021		
Chloride	44.059	1.25	mg/L	31.250	12.555	101	90-110	0.586	20	
Fluoride	3.1113	0.938	mg/L	3.1250	<0.938	99.6	90-110	1.08	20	
Sulfate	57.816	1.25	mg/L	31.250	26.019	102	90-110	0.453	20	
Matrix Spike Dup (BGK0089-MSD2)	Sour	ce: MGK00	16-23	Prepared:	11/03/202	21 Analyze	ed: 11/04/2	.021		
Chloride	54.206	1.25	mg/L	31.250	22.488	101	90-110	0.335	20	
Fluoride	3.1463	0.938	mg/L	3.1250	<0.938	101	90-110	0.718	20	
Sulfate	121.39	1.25	mg/L	31.250	90.155	99.9	90-110	0.0659	20	
Batch BGK0142 - Wet Prep										
Blank (BGK0142-BLK1)				Prepared	& Analyze	d: 11/05/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
Blank (BGK0142-BLK2)				Prepared	& Analyze	d: 11/05/2	021			
Chloride	<1.00	1.00	mg/L						<u> </u>	
Fluoride	<0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0142 - Wet Prep										
LCS (BGK0142-BS1)				Prepared	& Analyze	d: 11/05/2	021			
Chloride	24.496	1.00	mg/L	25.000		98.0	90-110			
Fluoride	2.3720	0.750	mg/L	2.5000		94.9	90-110			
Sulfate	24.509	1.00	mg/L	25.000		98.0	90-110			
LCS (BGK0142-BS2)				Prepared	& Analyze	d: 11/05/2	021			
Chloride	24.658	1.00	mg/L	25.000		98.6	90-110			
Fluoride	2.3930	0.750	mg/L	2.5000		95.7	90-110			
Sulfate	24.707	1.00	mg/L	25.000		98.8	90-110			
LCS (BGK0142-BS3)				Prepared	& Analyze	d: 11/05/2	021			
Chloride	24.673	1.00	mg/L	25.000		98.7	90-110			
Fluoride	2.3930	0.750	mg/L	2.5000		95.7	90-110			
Sulfate	24.684	1.00	mg/L	25.000		98.7	90-110			
Duplicate (BGK0142-DUP1)	Sour	ce: MGK00	33-08	Prepared	& Analyze	d: 11/05/2	021			
Chloride	0.34800	1.00	mg/L		0.34600			0.576	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	3.3870	1.00	mg/L		3.3980			0.324	20	
Duplicate (BGK0142-DUP2)	Sour	ce: MGK00	33-09	Prepared	& Analyze	d: 11/05/2	021			
Chloride	22.770	1.00	mg/L		22.752			0.0791	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	29.822	1.00	mg/L		29.786			0.121	20	
Matrix Spike (BGK0142-MS1)	Sour	ce: MGK00	33-08	Prepared	& Analyze	d: 11/05/2	021			
Chloride	30.926	1.25	mg/L	31.250	0.34600	97.9	90-110			
Fluoride	3.0913	0.938	mg/L	3.1250	<0.938	98.9	90-110			
Sulfate	34.288	1.25	mg/L	31.250	3.3980	98.8	90-110			



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,						701120				
Batch BGK0142 - Wet Prep										
Matrix Spike (BGK0142-MS2)	Sou	rce: MGK003	33-09	Prepared	& Analyze	d: 11/05/2	021			
Chloride	54.444	1.25	mg/L	31.250	22.752	101	90-110			
Fluoride	3.1475	0.938	mg/L	3.1250	<0.938	101	90-110			
Sulfate	61.706	1.25	mg/L	31.250	29.786	102	90-110			
Matrix Spike Dup (BGK0142-MSD1)	Sou	rce: MGK00	33-08	Prepared	& Analyze	d: 11/05/2	021			
Chloride	31.178	1.25	mg/L	31.250	0.34600	98.7	90-110	0.809	20	
Fluoride	3.1225	0.938	mg/L	3.1250	<0.938	99.9	90-110	1.01	20	
Sulfate	34.545	1.25	mg/L	31.250	3.3980	99.7	90-110	0.748	20	
Matrix Spike Dup (BGK0142-MSD2)	Sou	rce: MGK00	33-09	Prepared	& Analyze	d: 11/05/2	021			
Chloride	53.918	1.25	mg/L	31.250	22.752	99.7	90-110	0.971	20	
Fluoride	3.0600	0.938	mg/L	3.1250	<0.938	97.9	90-110	2.82	20	
Sulfate	61.215	1.25	mg/L	31.250	29.786	101	90-110	0.799	20	
Batch BGK0172 - Wet Prep										
Blank (BGK0172-BLK1)				Prepared	& Analyze	d: 11/08/2	021			
Chloride	<1.00	1.00	mg/L							
Fluoride	< 0.750	0.750	mg/L							
Sulfate	<1.00	1.00	mg/L							
LCS (BGK0172-BS1)				Prepared	& Analyze	d: 11/08/2	021			
Chloride	24.347	1.00	mg/L	25.000		97.4	90-110			
Fluoride	2.3490	0.750	mg/L	2.5000		94.0	90-110			
Sulfate	24.329	1.00	mg/L	25.000		97.3	90-110			
LCS (BGK0172-BS2)				Prepared	& Analyze	d: 11/08/2	021			
Chloride	24.466	1.00	mg/L	25.000		97.9	90-110			
Fluoride	2.3650	0.750	mg/L	2.5000		94.6	90-110			
Sulfate	24.481	1.00	mg/L	25.000		97.9	90-110			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0172 - Wet Prep										
Duplicate (BGK0172-DUP1)	Sour	ce: MGK003	33-20	Prepared	& Analyze	d: 11/08/2	021			
Chloride	2.0720	1.00	mg/L		2.0750			0.145	20	
Fluoride	<0.750	0.750	mg/L		<0.750				20	
Sulfate	28.118	1.00	mg/L		28.136			0.0640	20	
Matrix Spike (BGK0172-MS1)	Sour	ce: MGK003	33-20	Prepared	& Analyze	d: 11/08/2	021			
Chloride	33.515	1.25	mg/L	31.250	2.0750	101	90-110			
Fluoride	3.1338	0.938	mg/L	3.1250	<0.938	100	90-110			
Sulfate	60.000	1.25	mg/L	31.250	28.136	102	90-110			
Matrix Spike Dup (BGK0172-MSD1)	Sour	ce: MGK003	33-20	Prepared	& Analyze	d: 11/08/2	021			
Chloride	33.269	1.25	mg/L	31.250	2.0750	99.8	90-110	0.737	20	
Fluoride	3.1063	0.938	mg/L	3.1250	<0.938	99.4	90-110	0.881	20	
Sulfate	59.785	1.25	mg/L	31.250	28.136	101	90-110	0.359	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGK0079 - Wet Prep										
LCS (BGK0079-BS1)				Prepared	& Analyze	d: 11/03/2	021			
pH	7.0900		pH Units	7.0000		101	90-110			
LCS (BGK0079-BS2)				Prepared	& Analyze	d: 11/03/2	021			
pH	7.1000		pH Units	7.0000		101	90-110			
Duplicate (BGK0079-DUP1)	Source	e: MGK00	16-01	Prepared	& Analyze	d: 11/03/2	021			
pH	7.3700		pH Units	•	7.4100			0.541	20	
Duplicate (BGK0079-DUP2)	Source	e: MGK00	16-11	Prepared	& Analyze	d: 11/03/2	021			
pH	7.5400		pH Units	•	7.5400			0.00	20	
Duplicate (BGK0079-DUP3)	Source	e: MGK00	16-21	Prepared	& Analyze	d: 11/03/2	021			
pH	7.6800		pH Units		7.6700			0.130	20	
Duplicate (BGK0079-DUP4)	Source	e: MGK00	16-31	Prepared	& Analyze	d: 11/03/2	021			
pH	7.7900		pH Units	-	7.7800			0.128	20	
Batch BGK0081 - Wet Prep										
Blank (BGK0081-BLK1)				Prepared	& Analyze	d: 11/04/2	021			
Total Suspended Solids	<5.00	5.00	mg/L	•	•					
LCS (BGK0081-BS1)				Prepared	& Analyze	d: 11/04/2	021			
Total Suspended Solids	92.000	5.00	mg/L	101.00	-	91.1	70-130			
Duplicate (BGK0081-DUP1)	Source	e: MGK00	16-02	Prepared	& Analyze	d: 11/04/2	021			
Total Suspended Solids	<12.5	12.5	mg/L		0.80000				20	M K-06



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Name/Location: Sherco BAP2 CCR

Reported:

12/03/2021 09:20

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared	& Analyze	d: 11/04/2	021			
<25.0	25.0	mg/L							
			Prepared	& Analyze	d: 11/04/2	021			
94.000	25.0	mg/L	100.80		93.3	70-130			
Sour	ce: MGK00	16-02	Prepared	& Analyze	d: 11/04/2	021			
1174.0	25.0	mg/L		1194.0			1.69	20	
			Prepared	& Analyze	d: 11/05/2	021			
<5.00	5.00	mg/L							
			Prepared	& Analyze	d: 11/05/2	021			
96.000	5.00	mg/L	101.00		95.0	70-130			
Sour	ce: MGK00	16-12	Prepared	& Analyze	d: 11/05/2	021			
313.33	16.7	mg/L		313.33			0.00	20	
			Prepared	& Analyze	d: 11/05/2	021			
<25.0	25.0	mg/L							
			Prepared	& Analyze	d: 11/05/2	021			
104.00	25.0	mg/L	100.80		103	70-130			
	<25.0 94.000 Sour 1174.0 <5.00 96.000 Sour 313.33	Color Colo	Result Limit Units	Prepared Prepared	Prepared & Analyze	Result Limit Units Level Result %REC	Result Limit Units Level Result %REC Limits	Prepared & Analyzed: 11/04/2021	Prepared & Analyzed: 11/04/2021



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,										
Batch BGK0107 - Wet Prep										
Duplicate (BGK0107-DUP1)	Soi	urce: MGK00	16-12	Prepared	& Analyze	d: 11/05/2	021			
Total Dissolved Solids	598.00	25.0	mg/L		602.00			0.667	20	
Batch BGK0133 - Wet Prep										
Blank (BGK0133-BLK1)				Prepared	& Analyze	d: 11/06/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGK0133-BS1)				Prepared	& Analyze	ed: 11/06/2	021			
Total Suspended Solids	96.000	5.00	mg/L	101.00		95.0	70-130			
Duplicate (BGK0133-DUP1)	Sou	ırce: MGK00	16-22	Prepared	& Analyze	d: 11/06/2	021			
Total Suspended Solids	4.5000	12.5	mg/L		3.6000			22.2	20	M_D-RL, M_K-06
Batch BGK0134 - Wet Prep										
Blank (BGK0134-BLK1)				Prepared	& Analyze	d: 11/06/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGK0134-BS1)				Prepared	& Analyze	ed: 11/06/2	021			
Total Dissolved Solids	106.00	25.0	mg/L	100.80	-	105	70-130			
Duplicate (BGK0134-DUP1)	Soi	ırce: MGK00	16-22	Prepared	& Analyze	ed: 11/06/2	021			
Total Dissolved Solids	304.00	25.0	mg/L		306.00			0.656	20	
Batch BGK0141 - Wet Prep										
LCS (BGK0141-BS1)				Prepared	& Analyze	ed: 11/05/2	021			
pH	7.0900		pH Units	7.0000	·	101	90-110			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
, alwayse			0			701.120				
Batch BGK0141 - Wet Prep										
LCS (BGK0141-BS2)				Prepared	& Analyze	d: 11/05/2	.021			
pH	7.1000		pH Units	7.0000		101	90-110			
Duplicate (BGK0141-DUP1)	Sou	rce: MGK00	33-01	Prepared	& Analyze	d: 11/05/2	.021			
рН	7.5000		pH Units	-	7.5600			0.797	20	
Duplicate (BGK0141-DUP2)	Sou	rce: MGK00	33-11	Prepared	& Analyze	d: 11/05/2	.021			
pH	7.8200		pH Units	,	7.8200	,,,,,,	-	0.00	20	
Duplicate (BGK0141-DUP3)	Sau	rce: MGK00	133-21	Prenared	& Analyze	d· 11/05/2	0021			
pH	7.6600	100. HIGHU	pH Units	. ropurou	7.6700	G. 11/00/2	.021	0.130	20	
Batch BGK0159 - Wet Prep										
Blank (BGK0159-BLK1)				Prepared	& Analyze	d: 11/07/2	.021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGK0159-BS1)				Prepared	& Analyze	d: 11/07/2	.021			
Total Suspended Solids	100.00	5.00	mg/L	101.00	<u> </u>	99.0	70-130			
Duplicate (BGK0159-DUP1)	Sou	rce: MGK00	16-31	Prepared	& Analyze	d: 11/07/2	021			
Total Suspended Solids	2.5000	12.5	mg/L		1.8000		··	32.6	20	M_D-RL
										M_K-06
Batch BGK0160 - Wet Prep										
Blank (BGK0160-BLK1)				Prenared	& Analyze	d: 11/07/2	n21			
Total Dissolved Solids	<25.0	25.0	mg/L	i iepaieu	& Allaly26	u. 11/0//2	.02 1			
	20.0	_5.0	9/ =							



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza Reported:

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0160 - Wet Prep										
LCS (BGK0160-BS1)				Prepared	& Analyze	d: 11/07/2	021			
Total Dissolved Solids	90.000	25.0	mg/L	100.80		89.3	70-130			
Duplicate (BGK0160-DUP1)	Sour	ce: MGK00	16-31	Prepared	& Analyze	d: 11/07/2	021			
Total Dissolved Solids	292.00	25.0	mg/L		288.00			1.38	20	
Batch BGK0168 - Wet Prep										
Blank (BGK0168-BLK1)				Prepared	& Analyze	d: 11/08/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGK0168-BS1)				Prepared	& Analyze	d: 11/08/2	021			
Total Suspended Solids	96.000	5.00	mg/L	102.60		93.6	70-130			
Duplicate (BGK0168-DUP1)	Sour	ce: MGK00	33-01	Prepared	& Analyze	d: 11/08/2	021			
Total Suspended Solids	6.0000	12.5	mg/L		8.6000			35.6	20	M_K-06
Duplicate (BGK0168-DUP2)	Sour	ce: MGK00	33-02	Prepared	& Analyze	d: 11/08/2	021			
Total Suspended Solids	12.500	12.5	mg/L		12.400			0.803	20	
Batch BGK0169 - Wet Prep										
Blank (BGK0169-BLK1)				Prepared	& Analyze	d: 11/08/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGK0169-BS1)				Prepared	& Analyze	d: 11/08/2	021			
Total Dissolved Solids	100.00	25.0	mg/L	102.20		97.8	70-130			



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0169 - Wet Prep										
Duplicate (BGK0169-DUP1)	Sour	ce: MGK00	33-01	Prepared	& Analyze	d: 11/08/2	021			
Total Dissolved Solids	636.00	25.0	mg/L		632.00			0.631	20	
Duplicate (BGK0169-DUP2)	Sour	ce: MGK003	33-02	Prepared	& Analyze	d: 11/08/2	021			
Total Dissolved Solids	560.00	25.0	mg/L		556.00			0.717	20	
Batch BGK0173 - Wet Prep										
Blank (BGK0173-BLK1)				Prepared	& Analyze	d: 11/09/2	021			
Total Suspended Solids	<5.00	5.00	mg/L							
LCS (BGK0173-BS1)				Prepared	& Analyze	d: 11/09/2	021			
Total Suspended Solids	92.000	5.00	mg/L	102.60		89.7	70-130			
Duplicate (BGK0173-DUP1)	Sour	ce: MGK00	33-13	Prepared	& Analyze	d: 11/09/2	021			
Total Suspended Solids	<12.5	12.5	mg/L		<12.5				20	M_K-06
Duplicate (BGK0173-DUP2)	Sour	ce: MGK003	33-14	Prepared	& Analyze	d: 11/09/2	021			
Total Suspended Solids	16.000	12.5	mg/L		14.600			9.15	20	
Batch BGK0174 - Wet Prep										
Blank (BGK0174-BLK1)				Prepared	& Analyze	d: 11/09/2	021			
Total Dissolved Solids	<25.0	25.0	mg/L							
LCS (BGK0174-BS1)				Prepared	& Analyze	d: 11/09/2	021			
Total Dissolved Solids	110.00	25.0	mg/L	102.20		108	70-130			



Environmental Services-Water Minneapolis	Project Name/Location: Sherco BAP2 CCR	
250 Marquette Plaza		Reported:
Minneapolis MN, 55401	Project Manager: Eric Ealy	12/03/2021 09:20

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGK0174 - Wet Prep										
Duplicate (BGK0174-DUP1)	Source	e: MGK003	3-13	Prepared	& Analyze	d: 11/09/20	021			
Total Dissolved Solids	250.00	25.0	mg/L		246.00			1.61	20	
Duplicate (BGK0174-DUP2)	Source	ce: MGK003	3-14	Prepared	& Analyze	d: 11/09/20	021			
Total Dissolved Solids	550.00	25.0	mg/L		560.00			1.80	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0135 - EPA 200.2, EPA 30	05									
Blank (BGK0135-BLK1)				Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Boron	<0.0500	0.0500	mg/L							
Calcium	<1.50	1.50	mg/L							
LCS (BGK0135-BS1)				Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Calcium	96.865	1.50	mg/L	100.00		96.9	85-115			
Boron	0.93498	0.0500	mg/L	1.0000		93.5	85-115			
Duplicate (BGK0135-DUP1)	Sou	rce: MGK001	16-03	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Calcium	64.547	1.50	mg/L		64.030			0.804	20	
Boron	0.042945	0.0500	mg/L		0.048149			11.4	20	
Duplicate (BGK0135-DUP2)	Sou	rce: MGK001	16-04	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Boron	0.72949	0.0500	mg/L		0.75939			4.02	20	
Calcium	86.849	1.50	mg/L		86.069			0.903	20	
Matrix Spike (BGK0135-MS1)	Sou	rce: MGK001	16-03	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Calcium	163.82	1.50	mg/L	100.00	64.030	99.8	70-130			
Boron	0.99431	0.0500	mg/L	1.0000	0.048149	94.6	70-130			
Matrix Spike (BGK0135-MS2)	Sou	rce: MGK001	16-04	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Calcium	190.02	1.50	mg/L	100.00	86.069	104	70-130			
Boron	1.6833	0.0500	mg/L	1.0000	0.75939	92.4	70-130			
Matrix Spike Dup (BGK0135-MSD1)	Sou	rce: MGK001	16-03	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Boron	0.97416	0.0500	mg/L	1.0000	0.048149	92.6	70-130	2.05	20	
Calcium	160.07	1.50	mg/L	100.00	64.030	96.0	70-130	2.32	20	
Matrix Spike Dup (BGK0135-MSD2)	Sou	rce: MGK001	16-04	Prepared:	11/05/202	1 Analyze	ed: 11/08/20	021		
Calcium	187.03	1.50	mg/L	100.00	86.069	101	70-130	1.59	20	
Boron	1.6886	0.0500	mg/L	1.0000	0.75939	92.9	70-130	0.311	20	



Environmental Services-Water Minneapolis Project Name/Location: Sherco BAP2 CCR

250 Marquette Plaza

Minneapolis MN, 55401 Project Manager: Eric Ealy 12/03/2021 09:20

Total Metals by ICP - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch BGK0162 - EPA 200.2, EPA 3005										
Blank (BGK0162-BLK1)				Prepared	: 11/06/202	1 Analyze	ed: 11/08/2	021		
Calcium	<1.50	1.50	mg/L							
Boron	<0.0500	0.0500	mg/L							
LCS (BGK0162-BS1)				Prepared	: 11/06/202	1 Analyze	ed: 11/08/2	021		
Calcium	93.896	1.50	mg/L	100.00		93.9	85-115			
Boron	0.89721	0.0500	mg/L	1.0000		89.7	85-115			
Duplicate (BGK0162-DUP1)	Sou	ırce: MGK003	33-14	Prepared	: 11/06/202	1 Analyze	ed: 11/08/2	021		
Boron	0.22634	0.0500	mg/L		0.22873			1.05	20	
Calcium	85.896	1.50	mg/L		86.759			0.999	20	
Matrix Spike (BGK0162-MS1)	Sou	rce: MGK00	33-14	Prepared	11/06/202	21 Analyze	ed: 11/08/2	021		
Calcium	184.53	1.50	mg/L	100.00	86.759	97.8	70-130			
Boron	1.1404	0.0500	mg/L	1.0000	0.22873	91.2	70-130			
Matrix Spike Dup (BGK0162-MSD1)	Sou	rce: MGK00	33-14	Prepared	: 11/06/202	1 Analyze	ed: 11/08/2	021		
Calcium	181.16	1.50	mg/L	100.00	86.759	94.4	70-130	1.84	20	<u> </u>
Boron	1.1009	0.0500	mg/L	1.0000	0.22873	87.2	70-130	3.53	20	



Environmental Services-Water Minneapolis

250 Marquette Plaza

Minneapolis MN, 55401

Project Manager: Eric Ealy

Project Manager: Eric Ealy

Qualifiers and Definitions

M_TTT Sample received at the lab outside of required hold time.

M_K-06 The reporting limit has been increased, the reported result is acceptable. The maximum routine sample volume was used,

but the amount of residue measured was below reference method limits.

M_D-RL The RPD for the sample duplicate was outside of QC acceptance limits due to<RL.

Z Non Accredited Analyte

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Face Analytical "www.pacelebs.com

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company: XO	mormation: Xcel Fnerav	Report To: Chris Pe	Chris Pelosi	iso	= <	Attention:	Hance			Steve	Steve Davis						REGIL	REGULATORY AGENCY	AGEN	<u>}</u>
	Total Linding	1		5	1	N. Common of Com	1000			200	2					3				5
Addi ess.	Environmental services	copy to.	Riley Jacobson	nosq)	dinpariy ise									_	NPDES	K GROUN	GROUND WATER		DRINKING WATE
	MP-7		-		ď.	Address:									L	UST	- RCRA		0	OTHER MCES
Email To:	Chris Pelosi	Purchase Order No.	r No.:		ď	Pace Quote Reference	Referent	.ec.								SITE	N.C.N.	MN I	ILT IN	L W
Phone: (612) 597-7254	EM Fax:	Project Number	21-05-12	23	ď.	Pace Project Manager:	Manage	Эr.	Chris	Pelo	Chris Pelosi/ Riley Jacobson	y Jaco	nosq			LOCATION	L	OH L	SCI_ WIF	V OTHER
Requested Due Date/TAT:	Date/TAT: 2 Weeks	Project Name:	Xcel Energy		.co Pc	Sherco Ponds Fall 2021	2021	Pace Profile #.	.# "						Filter	Filtered (Y/N)		1	11	
Section D	SAMPLE ID One Character per box.	Valid Mainx Codes MATRIX Debacing water water water product soursoud	CODE Covi vivi vivi vivi vivi out	BIX CODE	PLE TYPE		COLLE	COLLECTED	,	LE TEMP AT LECTION	SABNIATNO		Preservatives	89/	Requested Analysis:	sted sis:	13h	200	SONO SUND	
# W3	Sample IDs MUST BE UNIQUE		ARP OT		3=CE	COMPOSITE START	3.1	COMPOSITE END/GRAB	ND/GRAB		10EC	_		S ₂ O ₃		10	8-77-0 (190°	78/80/80/80 78/80/80/80	10 Jeng	
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3	P-03B			TW	9	ı	i	11/2/11	Ioss		69	-	-		×		×			
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9	P=17		CONTROL BRANCHISM (COLOR POPULACION)	TW	9	,		11/2/21	1520		2	-	-			×	×	×		
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6	P-42			WT	9	,	ı	11/1/11	5211		ო	1 1	-		×		×			
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100	in myesser, 4.					100	IGNATURE	SIGNATURE of SAMPLER	30	JACIS PELOSI	11	+ Killey	DACON	Signed (M	DATE Signed (MM/DD/YY)			Temp		

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Face Analytical

DRINKING WATE N/A Samples Intact N/A OTHER OTHER MCES SAMPLE CONDITIONS of Sealed Cooler N/A N/A N/A Custody REGULATORY AGENCY L MIN Page: 3 eo| ON N/A Received on SCL ▼ GROUND WATER

▼ 5.0 O° ni qmaT LHOL L NC WN -11/5/21/0900 TIME RCRA × × × × × × × × L LOCATION NPDES iltered (Y/N) SITE DATE UST tequested inalysis: × × × × × × ACCEPTED BY / AFFILIATION Chris Pelosi + Pelly Suchson lonerhan EOSSEN HORN Chris Pelosi/ Riley Jacobson IOI FONH -*OSZH pewesendu Steve Davis 4 m 3 3 4 3 3 500 m m 00 3 # OF CONTAINERS SAMPLER NAME AND SIGNATURE COFFECTION TA 9MBT 3J9MA2 0060 TIME 1235 0741 1355 940 5001 1145 1315 1225 1345 1425 5501 1110 11/3/21 12/4/11 11/3/21 11/3/21 11/2/11 11/3/21 11/3/21 17/4/11 17/121 11/1/21 RELINQUISHED BY / AFFILIATION DATE 11/2/21 DATE 11/2/11 11/2/11 COLLECTED ace Quote Reference: Pace Project Manager Xcel Energy Sherco Ponds Fall 2021 TIME Invoice Information: 1 1 . company Name Section C DATE Attention: 1 ddress: 1 1 • . 1 1 V -1 . GRAB C=COMP O O O 0 0 0 0 9 O 0 0 0 TW TW WT TW WT WT TW TW TW TW MT Riley Jacobson MT 21-05223 MATRIX CODE Chris Pelosi Required Project Information: Purchase Order No. Project Number *, samples delivered to Xeel lab 11/3/21 CIP. Project Name: Section B -remaining simples delivered to XCel lab Report To: Jos : 17800 hy chart Copy To: Section D Required Client Information P-101B P-101A P-93D P-94A P-126 P-129 P-131 P-93A P-93B P-127 P-128 P-130 **Environmental Services** 2 Weeks (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE One Character per box. SAMPLE ID Xcel Energy Chris Pelosi MP-7 Section A Required Client Information: Fax Requested Due Date/TAT: Additional Comments: hone: (612) 597-7254 company. mail To: # MaTI *

e-File(ALLQ020rev.3,31Mar05))22Jun2005

(MM/DD/YY)

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Face Analytical"

Page Project No. DRINKING WATE Samples Intact N/A N/A OTHER SAMPLE CONDITIONS OTHER MCES ō Sealed Coole N/A N/A N/A N/A e-File(ALLQ020rev.3,31Mar05))22Jun2005 Custody L REGULATORY AGENCY M Page: 2 90 N/A N/P N/Y Received on _ F GROUND WATER | SCL O° ni qmeT L 3 L aro OH NC RCRA L × × × × × × × × × × LOCATION e 11/3/21 iltered (Y/N) L NPDES TSU T Requested Analysis: × × × × × × × × × × × Chris Pelis, + Biley Jacobson Darie Signed (MM TOD) TOTAL)ther ACCEPTED BY / AFFILIATION lethanol 195Szel HOP Chris Pelosi/ Riley Jacobson IOH EONH -------*OSZH -5----npreserved Steve Davis 3 3 3 3 3 3 3 n 3 3 # OF CONTAINERS 3 3 SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION 720 1320 1050 1255 1225 0900 1345 1305 1020 1225 810 TIME 835 900 COMPOSITE END/GRAB Xcel Energy Sherco Ponds Fall 2021 Pace Profile #: KINT Name of SAMPLER: 11/2/21 11/3/21 11/2/21 11/2/21 12/1/11 11/1/21 DATE 11/2/21 uldu 11/1/21 11/1/21 11/2/21 17/1/11 11/1/11 COLLECTED ace Quote Reference: Pace Project Manager: TIME Invoice Information • 1 1 . . Company Name: COMPOSITE START Jak Section C DATE Attention: 1 5 1 1 SAMPLE TYPE PARD=D 0 0 O O 9 O O O 9 0 0 0 Riley Jacobson Project Number 21-65223 TW TW TW TW TM TM TW TW WT TW TW TW MATRIX CODE Chris Pelosi Required Project Information: CODE Down Purchase Order No.: Project Name: PHStys: Moster. 4.1°C Section B Report To: MATRIX
DRINKING WATER
WATER
WASTE WATER
SOLUSOLID
OIL Copy To: *, sumplie delined to Xel lab 11/3/21 Section D Required Client Information P-50D P-89-1 P-90A P-92A P-92B P-92D P-90 P-56 D-60 P-62 99-d P-88 Environmental Services 2 Weeks One Character per box. (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE SAMPLEID Xcel Energy Chris Pelosi MP-7 Requested Due Date/TAT: Required Client Information: Fax: Additional Comments: Phone; (612) 597-7254 Company: Email To: 9 # MHT * * * * * * *

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Face Analytical

0 DRINKING WATER OTHER SAMPLE CONDITIONS OTHER MCES of N/A N/A L Z REGULATORY AGENCY N N Page: 4 NC IL GROUND WATER LOS LHO L TIME × 11/5/2/0900 × RCRA × × LOCATION NPDES | iltered (Y/N) SITE DATE UST ACCEPTED BY / AFFILIATION Sp EOSSEN Chris Pelosi/ Riley Jacobson EONH Post Steve Davis N # OF CONTAINERS 2 2 2 0 N N N 2 COLLECTION
SAMPLE TEMP AT WELLDRY NO SAMPLE WELL DRY NO SAMPLE 0060 TIME 1230 845 1300 11/2/11 1305 930 925 TIME 835 SSS 11/4/21 1135 1100 11/4/21 11/2/21 11/2/11 17/4/21 17/4/11 11/2/11 11/3/21 11/2/21 11/4/11 DATE RELINQUISHED BY / AFFILIATION DATE COLLECTED ace Quote Reference Pace Project Manager. Xcel Energy Sherco Ponds Fall 2021 TIME Invoice Information ١ 1 Company Name: Section C DATE 1 1 1 -1 SAMPLE TYPE TWPE G=0MP 0 0 0 0 0 0 0 WT G WT G WT G TW TW TW TW Riley Jacobson 21-05223 TW 1 TW TW MATRIX CODE Chris Pelosi Required Project Information: Purchase Order No. Project Number *, symples delivered to Xcel lab 11/3/21 CIP. Project Name: remaining sumples delivered to Kel lab Section B Report To: Copy To: P-154A P-132 P-151 P-153 P-155 P-156 P-157 P-158 P-162 P-163 Environmental Services One Character per box. (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE SAMPLE ID Xcel Energy Chris Pelosi Required Client Information. ax: Requested Due Date/TAT: Additional Comments: Section D hone: (612) 597-7254 mail To: H MHI ¥ ¥

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SAMPLER NAME AND SIGNATURE

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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DRINKING WATE MY WYY OTHER OTHER MCES SAMPLE CONDITIONS of N/A N REGULATORY AGENCY M Page: 5 N 1 SCL F GROUND WATER 5.0 NC WN T L HO L × × × × 060 TIME RCRA × × × × × × L. LOCATION × 17 5/21 L NPDES iltered (Y/N) SITE DATE L UST equested nalysis: × × × × × ACCEPTED BY / AFFILIATION lonertel EOSSEN XCE HOEN Chris Pelosi/ Riley Jacobson 101 EONH 1 1 1 1 1 1 1082H 1 1 Steve Davis 63 3 3 N N 2 2 2 00 # OF CONTAINERS N 2 4 SAMPLE TEMP AT 0060 TIME SH6 1520 0501 935 1355 1000 0491 1345 TIME 1000 1500 aghi SZH ulstu 11/4/24 12/4/11 11/4/21 11/3/21 11/2/11 11/2/11 11/3/21 11/3/21 DATE 12/2/11 12/2/11 11/4/21 11/1/21 RELINQUISHED BY / AFFILIATION DATE COLLECTED ace Quote Reference: Pace Project Manager Xcel Energy Sherco Ponds Fall 2021 TIME nvoice Information. • 1 1 1 1 1 1 Company Name: COMPOSITE START Section C DATE -١ 1 1 -1 -1 1 1 1 SAMPLE TYPE 9MOD=D BARD=D 0 0 0 0 0 0 0 0 0 0 0 WT G TW Riley Jacobson WT WT TW WT TW TW WT TW W WT MATRIX CODE Rey Chris Pelosi 21-05223 Required Project Information: SOD 3 2 5 1 2 2 3 5 2 5 Purchase Order No.: Project Number Project Name; *, samples delivered to Xeel lab 11/3/21 CJP. Section B Report To: MATRIX
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DATE Signed (MM / DD / YY)

+ Riley Jacobson

Chris Peloi:

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CHAIN-OF-CUSTODY / Analytical Request Document

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Company:	Xcel Energy	Report To: C	Chris Pelosi		Attention:			Steve	re Davis	S			**	REGULATORY AGENCY	RY AG	ENCY	
Address: En	Environmental Services	Copy To: Rile	Riley Jacobson	-	Company Name	ame:						L	NPDES F GR	GROUND WATER	R	DRINK	DRINKING WATER
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