

November 20, 2025
File No. 27225178.00

Mr. Brian Rath, PE
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Land Quality Bureau
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Subject: 2025 Annual Water Quality Report and
Leachate Control System Performance Evaluation Report
Heidelberg Materials CKD Monofill
Permit No. 17-SDP-08-99P

Dear Brian,

SCS Engineers has completed the required groundwater monitoring and statistical evaluation at the Heidelberg Materials Cement Kiln Dust (CKD) Monofill for the 2025 reporting year. Our services were performed in general accordance with Iowa Administrative Code (IAC) 567-115.26 and the landfill permit requirements for implementation of the Hydrologic Monitoring System Plan (HMSP). Please find enclosed a copy of the 2025 Annual Water Quality Report for the Monofill. Additionally, the 2025 Leachate Control System Performance Evaluation Report for the site is included as Appendix F to the Annual Water Quality Report.

If you have any questions about this report, please contact us as noted below.

Sincerely,



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2025 Annual Water Quality Report 2025 Leachate Control System Performance Evaluation Report

Heidelberg Materials US Cement CKD Monofill
Solid Waste Permit No. 17-SDP-08-99P

Prepared for:

Heidelberg Materials US Cement
700 25th Street NW
Mason City, Iowa 50401

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27225178.00 | November 2025

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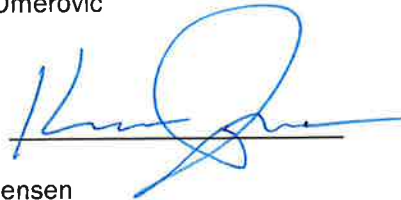
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CERTIFICATION

Prepared by: 

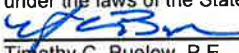
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Date: 11-20-2025

Typed: Kevin Jensen

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	<u></u>	Date: <u>11/20/2025</u>
	Timothy C. Buelow, P.E.	
	License No. 14445	
	My license renewal date is December 31, 2025.	
Pages or sheets covered by this seal:		
<u>All except Appendix B-1.</u>		
<u> </u>		

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of Heidelberg Materials US Cement, has completed the required groundwater sampling for the Heidelberg Materials US Cement CKD Monofill (Monofill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2024 AWQR up to and including the April and October 2025 semiannual sampling events. This AWQR was prepared in accordance with the requirements of Iowa Administrative Code (IAC) 567-115.26, the site permit, and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Monofill:

- Department review urgency: None.
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Actions and/or permit amendments needed: Updated plans and specifications for the Phase IV-VI disposal cells will be submitted by March 31, 2026, as required by permit special provision #3.a.

ES.3 SITE STATUS AND APPLICABLE RULES

- Monofill Status: Active, Operating Permit.
- Types of waste accepted: Industrial (Cement-Kiln Dust (CKD) waste).
- Applicable IAC rules: 567-115.26.

ES.4 COMMENTS

The following summarizes points of special emphasis:

- The Monofill may be having a limited impact on the surrounding groundwater in isolated areas. Historical placement of CKD in the area could also be an influencing factor. Due to the limited nature of the impact, the industrial use of the site, and the lack of receptors in the area, additional assessment does not appear necessary at this time.
- Concentrations of several constituents in leak detection riser LDR-3 have continued to steadily increase; however, groundwater at the nearest monitoring well MW-201 appears to remain largely unaffected by conditions at LDR-3. Water collected at LDR-3 does not appear to be representative of groundwater conditions in the groundwater monitoring network, therefore, additional sampling or site assessment does not appear necessary at this time.

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1.0 ACRONYMS/ABBREVIATIONS

AL = Action Level
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
GWPS = Groundwater Protection Standard
GWQAP = Groundwater Quality Assessment Plan
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LN = Lognormal
M+/-2SD = Mean Plus/Minus Two Standard Deviations
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
N = Normal
NC = No Change
NM = Not Measured
ORP = Oxidation-Reduction Potential
PL = Prediction Limit
QA = Quality Assurance
QC = Quality Control
RL = Reporting Limit
SWS = DNR Statewide Standard for a Protected Groundwater Source
SSI = Statistically Significant Increase Above Background
SSL = Statistically Significant Level Above Groundwater Protection Standard
SSS = Site-Specific Standard (Site-Specific GWPS)
TSS = Total Suspended Solids
UCL = Upper Confidence Limit

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The Heidelberg Materials US Cement manufacturing plant is located near the north edge of Mason City, Iowa on the northwest corner of the intersection of 25th Street Northwest and U.S. Highway 65. The cement manufacturing waste monofill (Monofill) is located on this property. The legal description of the Monofill location is the North ½ of Section 32, Township 97 North, Range 20 West, Cerro Gordo County, Iowa.

2.2 FACILITY

Heidelberg Materials US Cement owns and operates a cement manufacturing waste monofill on their mining and manufacturing facility property in Mason City, Iowa. The Monofill was constructed in the summer of 2002 and authorization to begin filling was granted by DNR on October 31, 2002. The Monofill was developed within portions of the previous clay quarry.

Prior to filling of cement manufacturing waste, including cement kiln dust (CKD), in the Monofill, CKD was buried in several areas across the current and former site property. Five of these burial areas within the current property and on the property now operated by the Lime Creek Nature Center are regulated by the Environmental Protection Agency (EPA) as a Superfund site (EPA ID No. IAD005288634).

In accordance with the consent decrees issued by the Iowa Department of Water, Air, and Waste Management in April 1984 (Consent Order No. 84-A-001) and the EPA (Civil Action No. 2c 84-3030) in May 1986, the Lehigh Cement Company buried CKD in portions of the clay quarry over top of remaining in-situ clay which was approximately three to four feet thick.

2.3 GEOLOGY OF THE SITE

The following information pertaining to this section was obtained from the Landfill Hydrogeologic Investigation Report prepared by Barr Engineering Company, August 2001 (note that the referenced tables, figures, and appendices are part of the referenced report and not included herein):

As indicated on the cross sections, the surficial deposits (i.e., unconsolidated material above the bedrock) at the site consist of two significant layers. The uppermost layer consists of brown, oxidized, generally mottled, clay till with zones of silt, sandy clay, sandy silty clay, and clayey sand. Bedding is not apparent in samples of the brown till. This brown clay till is present only in the unmined areas of the clay quarry. Thickness of the brown clay till varies from 5.5 ft. to 20.5 ft.

The stratigraphically lower second layer consists of greenish-gray clay. Based on field testing and observations, this clay was classified as likely being fat clay. However, laboratory testing indicated that the greenish-gray clay is lean clay. Thin bedding is visible in samples of the greenish-gray clay. Sandy zones were not seen in the greenish-gray clay samples. The greenish-gray clay is stiff but can be parted along bedding planes under manual pressure. This greenish-gray clay is homogeneous, unlike the overlying brown clay till, and may be consistent with a lacustrine depositional environment. An occasional gravel to small cobble sized rock was the only particle larger than clay size observed in the greenish-gray clay samples.

In some locations a "clay-shale" was encountered at the base of the greenish-gray clay, directly above the bedrock. This clay-shale was the same color as the clay immediately above it but was generally harder (based on standard penetration test blow counts) and less malleable than the overlying greenish-gray clay. Samples of the clay-shale also tended to break along bedding planes in thinner pieces than the overlying greenish-gray clay.

Bedrock encountered during drilling at the site consisted mainly of carbonate rocks. Core samples of the bedrock were obtained from wells MW-201, MW-202, and MW-203. The upper portions of the cores consisted mainly of mottled dark gray to brown dolomite. This dolomitic portion of the cores contained numerous vugs and cavities. Calcite crystals and some small pyrite crystals were observed in vugs in this upper zone of the bedrock. Lower portions of the cored intervals appeared to consist of more limestone than dolomite. The limestone portion of the cores tended to have fewer open vugs/cavities than stratigraphically higher portions of the cores. A 0.5-foot thick shaley zone was encountered within the carbonate bedrock at well MW-202.

2.4 HYDROLOGY OF THE SITE

The following information pertaining to this section was obtained from the Landfill Hydrogeologic Investigation Report prepared by Barr Engineering Company, August 2001:

A well-defined and continuous water table was not present in the unconsolidated material at the site. Some saturated zones were identified in the brown till during drilling; however, the saturated zones were not seen continuously across the site. Saturated zones were not observed in the greenish-gray clay during drilling. In order to fully evaluate the potential for saturated zones in the greenish-gray clay, the temporary piezometers and monitoring wells MW-101, MW-102, MW-103, and MW-104R were installed. The piezometers were installed in March 2001 and abandoned in June 2001. Piezometers were checked several times during this period to determine if there was any water in them. All the piezometers were dry when checked during the period March through June, except for piezometer PZ-1 at the end of June 2001.

When PZ-1 was checked on June 28 there was approximately 0.5 ft of water in the piezometer. The Barr geologist noted that the bentonite grout around the piezometer riser appeared to be desiccated and cracked and that the piezometer riser appeared to be loose (i.e., the riser pipe could be moved from side to side). Water was pumped out of piezometer PZ-1 with a whale pump until there was only about 0.1 ft of water remaining in the piezometer. Piezometer PZ-1 was checked again on June 29 and there was still only about 0.1 ft of water in the piezometer. As indicated in Appendix B, no saturated zones were observed in the greenish-gray clay when piezometer PZ-1 was installed. In light of the observations made at the time of piezometer installation, the lack of recharge in the piezometer suggests that the likely source of the water in piezometer PZ-1 was water leaking down the piezometer annulus from above through a compromised bentonite grout seal.

Water has not been detected in monitoring wells MW-102, MW-103, and MW-104R. Monitoring well MW-101 was constructed over a two-day period (Appendix B). No evidence of saturated zones in the greenish-gray clay was observed during the drilling of well MW-101. The driller noted some wet cuttings from a depth of approximately 7 feet. This depth appears consistent with the interpreted depth of the contact between

the brown till and the greenish gray clay (Appendix B). After the cement grout had cured, well MW-101 was checked and there was approximately 0.5 feet of water in the well. As with piezometer PZ-1, well MW-101 was evacuated using a whale pump. One day later, there was still no water in the well. It appears likely that water detected in well MW-101 moved down the borehole from the contact between the brown till and greenish-gray clay during the installation of well MW 101.

Laboratory permeability tests were performed on shelly tube samples from both the brown till and the greenish-gray clay. As shown in Table 2, the permeability of the brown till ranged from 1.3×10^{-8} to 1.6×10^{-8} ft/min. Permeability of the greenish-gray clay ranged from 1.3×10^{-8} to 7.8×10^{-8} ft/min.

During the installation of wells MW-201, MW-202, and MW-203 no groundwater was encountered in the unconsolidated sediments. Steel casings were grouted into the top of the bedrock at each of these wells (Appendix B). Rock coring was then done through these casings after the grout had set. Groundwater entered the coreholes from the bedrock and rose up inside the outer casings several feet above the bedrock surface. As noted above, some of the soil borings terminated when the auger encountered the bedrock surface. Groundwater did not enter these boreholes. Thus, it appears that the uppermost portion of the bedrock, rather than the clay-shale or the greenish-gray clay, is the upper confining unit for the bedrock aquifer at the site.

Groundwater elevations were measured in wells MW-201, MW-202, and MW-203 on March 26, April 25, June 22, and July 25, 2001. Comparison of the measured groundwater elevations with the bedrock surface elevations at wells MW-201, MW-202, and MW-203 (e.g., Figure 8) indicates that the piezometric surface in the bedrock aquifer is approximately 9.7 to 14 ft above the bedrock surface. Piezometric surface elevation contours for the bedrock aquifer are shown on Figures 9, 10, 11, and 12. As shown on these figures, the groundwater flow direction in the bedrock aquifer beneath the site varied from approximately north to northeast. The horizontal hydraulic gradient in the bedrock aquifer varied from 1.2×10^{-4} ft/ft to 1.5×10^{-3} ft/ft.

As described in Section 2, single well recovery tests were performed in wells MW-201 and MW-203 at the site. The aquifer test data and evaluations are presented in Appendix E. Data gathered during the tests was used to calculate a specific capacity for each of the wells. Following the method described in Driscoll (1986), specific capacity data can be used to estimate aquifer transmissivity. These estimates are considered good first approximations to the aquifer transmissivity (Driscoll, 1986). Estimated transmissivities for wells MW-201 and MW-203 are shown in Table 6. The geometric mean of the bedrock transmissivity, as estimated from the specific capacities of the wells, is 69 ft²/day.

Recovery test data for each well were analyzed with the Theis recovery method (Theis, 1935) using the software package AQTESOLV (Duffield, 1999). The geometric mean of the bedrock transmissivity, as determined from the recovery tests, is 124 ft²/day. Using information obtained during this investigation, the groundwater flow velocity in the bedrock beneath the new landfill site has been estimated. To facilitate the calculation of an estimated groundwater flow velocity it has been assumed that 1) the bedrock porosity is 0.05 (this is within the typical range for limestone and dolomite presented by Freeze and Cherry (1979)) and 2) the carbonate aquifer is 290 feet thick. Thus, the hydraulic conductivity of the bedrock aquifer beneath the site is estimated

to be 0.43 ft/day. The groundwater flow velocity in the bedrock beneath the site is estimated to 2.5 ft/yr. (0.069 ft/day).

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrological monitoring system plan (HMSP) network are depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well.

3.2 FIGURES 2 & 3 – GROUNDWATER CONTOURS – CLAY UNIT

Groundwater contour maps based on water levels measured in the clay unit during the April and October semiannual groundwater sampling events are included as **Figure 2** and **Figure 3**, respectively. **Figure 2** and **Figure 3** indicate a generally southwesterly flow direction. Elevation measurements of the north pond during the April and October semiannual sampling events were recorded as 1,112.53 feet and 1,113.25 feet, respectively. The level of the north pond is controlled via manual pumping to the south pond and discharges through NPDES Outfall #4 and monitoring point SW-1 to Calamus Creek.

3.3 FIGURES 4 & 5 – GROUNDWATER CONTOURS – BEDROCK UNIT

Groundwater contour maps based on water levels measured in the bedrock unit during the April and October semiannual groundwater sampling events are included as **Figure 4** and **Figure 5**, respectively. **Figure 4** indicates a generally northwesterly flow direction with flow beneath the Phase 1-3 area being away from the north pond. **Figure 5** indicates a generally westerly flow with flow beneath the Phase 1-3 area moving away from the north pond. The vertical gradient within the nested monitoring well pair MW-102R/MW-202R appeared to be downward during the April sampling event and slightly upward during the October sampling event.

4.0 QA/QC SUMMARY

Date indicates the date(s) of sampling.

4.1 APRIL 29-30, 2025 (2025 APRIL SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by analytical irregularities and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in **Appendix B-1**. Data validation documentation can be found in **Appendix B-2**.

4.2 OCTOBER 8-9, 2025 (2025 OCTOBER SAMPLING EVENT)

Based on the QA review, no samples were rejected as unusable due to QC failures. In general, the quality of the analytical data for this reporting period does not appear to have been compromised by analytical irregularities and results affected by QC anomalies are qualified with the appropriate data flags, which are listed in the laboratory report in **Appendix B-1**. Data validation documentation can be found in **Appendix B-2**.

5.0 DATA EVALUATION

Statistical evaluation in accordance with the requirements of the 1989 IAC 567-103.2(8)"d" were conducted for the groundwater analytical data collected during the April and October 2025 semiannual sampling events. The statistical evaluation for samples collected during 2025 semiannual sampling events is located in **Appendix D** of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Monofill consists of sampling from two units. The clay unit contains one background monitoring well (MW-101R) located on the west side of the Monofill and two compliance monitoring wells; one located on the north side (MW-102R) and one located on the east side (MW-103R) of the Monofill. The bedrock unit contains two background monitoring wells located on the south (MW-205) and far southwest (MW-203R) sides of the Monofill and four compliance monitoring wells; one located on the southeast side (MW-201), one located along the east side (MW-204), one located on the north side (MW-202R), and one located on the west side (MW-206) of the Monofill.

A total of 43 control limit exceedances were detected based on 2025 semiannual sampling results as listed in **Table 1** and **Table 7** compared to 40 control limit exceedances detected based on 2024 semiannual sampling results reported in the 2024 AWQR. Most of the control limit exceedances detected based on 2025 semiannual sampling results were attributed to the clay unit monitoring wells and bedrock monitoring well MW-201.

Exceedances of action or advisory levels were largely associated with sodium, sulfate, and total dissolved solids as listed in **Table 9**. The action levels for sodium, sulfate, and total dissolved solids were also exceeded in the clay unit background monitoring well MW-101R. Concentrations of sodium, sulfate, and total dissolved solids in monitoring well MW-101R were significantly lower in the recharge sample as compared to the initial no-purge sample where samples were available, however the action levels for sodium and total dissolved solids were also exceeded in the recharge samples. Noted exceedances of the action or advisory levels were based on a review of concentrations listed in the Summary of Groundwater Chemistry in **Appendix C** and information reported in **Table 9**.

5.2 TRENDING IN MONITORING WELLS

Statistically significant trends at a 99% confidence level ($\alpha=0.01$) were identified in four monitoring point – constituent pairs by Mann-Kendall analysis during this reporting period. The monitoring points subject to the trend analysis included groundwater monitoring wells, leak detection risers, and the surface water monitoring point. The trend analysis results using data through the October 2025 sampling event are included in **Appendix D**. The statistically significant trends were as follows:

Monitoring Point	Constituent	Trend
LDR-3	Chloride	Increasing
LDR-3	Potassium	Increasing
LDR-3	Specific Conductance	Increasing
LDR-3	Total Dissolved Solids	Increasing

Although not necessarily statistically significant, the Mann-Kendall statistics can provide an indication of general trending in the data. Trend indications for monitoring wells, leak detection risers and the surface water monitoring point in the monitoring program are shown in the table below. The

statistics used to develop the general trending differ from the Mann-Kendall statistics used in the diagnostics section of the statistical evaluation in that a much lower trend threshold is applied for the general trending information ($\alpha=0.20$ versus $\alpha=0.01$). Trends classified as decreasing or increasing exhibited a statistically significant trend with 80% confidence using the most recent eight data points. Trends classified as stable did not exhibit a statistically significant trend with 80% confidence using the eight most recent data points. A summary of Mann-Kendall statistics by constituent in each monitoring point is included in **Appendix E** of this report.

Trending in Monitoring Wells					
Aquifer	Monitoring Well	Decreasing Trends	Stable Trends	Increasing Trends	Number of Constituents Analyzed
Clay Unit	MW-101R-NP (u)	0.0%	70.0%	30.0%	20
	MW-102R-NP	0.0%	85.7%	14.3%	14
	MW-103R-NP	7.1%	64.3%	28.6%	14
Bedrock Unit	MW-201	5.0%	90.0%	5.0%	20
	MW-202R	0.0%	100.0%	0.0%	16
	MW-203R (u)	0.0%	92.9%	7.1%	14
	MW-204	0.0%	73.3%	26.7%	15
	MW-205 (u)	0.0%	93.3%	6.7%	15
	MW-206	0.0%	93.3%	6.7%	15
Leak Detection Risers	LDR-1	0.0%	100.0%	0.0%	20
	LDR-2	0.0%	100.0%	0.0%	15
	LDR-3	10.5%	52.6%	36.8%	19
Surface Water	SW-1	19.0%	76.2%	4.8%	21
Combined	Site Wide	3.7%	83.5%	12.8%	218

(bg) indicates background monitoring point.

Review of the Mann-Kendall statistics indicated that approximately 87% of the Mann-Kendall statistics were considered stable or decreasing following the 2025 annual statistical evaluation with none of the decreasing trends being pH. Although concentrations of chloride, magnesium, potassium, sodium, specific conductance, sulfate, and TDS have continued to rise in leak detection riser LDR-3, concentrations of these constituents in the groundwater at nearby monitoring well MW-201 were stable to decreasing, with the exception of magnesium.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Based on the data collected during the 2025 sampling events, it appears the Monofill may be having a limited impact on the surrounding groundwater in isolated areas. Historical placement of CKD in the area could also be an influencing factor. Due to the limited nature of the impact, the industrial use of the site, and the lack of receptors in the area, additional assessment does not appear necessary at this time.

Although concentrations of several parameters in LDR-3 have continued to steadily increase, groundwater at the nearest compliance point, bedrock monitoring well MW-201, appears to remain unaffected by the conditions in LDR-3. Water collected at LDR-3 does not appear to be representative of groundwater conditions in the groundwater monitoring network, therefore additional sampling or site assessment does not appear necessary at this time.

6.2 PROPOSED MONITORING

The groundwater monitoring program is summarized in **Table 1**. No changes to the HMSP monitoring program are recommended at this time. It is recommended that sampling continue for calendar year 2026 as summarized in **Table 2**.

6.3 PROPOSED MONITORING WELL CHANGES

Monitoring well performance is summarized in **Table 4**. No proposed changes to the monitoring wells are recommended at this time.

Tables

- 1 Monitoring Program Summary
- 2 Monitoring Program Implementation Schedule
- 3 Monitoring Well Maintenance and Performance Re-Evaluation Schedule
- 4 Monitoring Well Performance and Maintenance Summary
- 5 Background and GWPS Summary
- 6 Summary of Well/Detected Constituent Pairs with No Immediately Preceding Control Limit Exceedances
- 7 Summary Table of Ongoing and Newly Identified Control Limit Exceedances
- 8 Summary of Groundwater Chemistry
- 9 Historical Control and Action Level Exceedances
- 10 Groundwater Quality Assessment Plan Trend Analysis

Table 1
Monitoring Program Summary
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Monitoring Well	Formation	Current Monitoring Program	Change for Next Sampling Event	Control Limit Exceedances	Total Number of Samples in Each Monitoring Program Since January 1, 2018		
					Routine	Supplemental	Remedial Action
Clay Unit							
MW-101R	Gray Clay	Background	None	-	13	-	-
MW-102R	Gray Clay	Detection	None	Total Alkalinity, Bicarbonate, Calcium, Magnesium, Potassium, Specific Conductance, Sulfate, Total Dissolved Solids, Total Hardness	12	-	-
MW-103R	Gray Clay	Detection	None	Total Alkalinity, Bicarbonate, Calcium, Chloride, Magnesium, Nitrate/Nitrite as N, Potassium, Specific Conductance, Sulfate, Total Dissolved Solids, Total Hardness	16	-	-
Bedrock Unit							
MW-201	Dolomite	Detection	None	Total Alkalinity, Ammonia as N, Bicarbonate, Chloride, Magnesium, Nitrate/Nitrite as N, Potassium, Sodium, Sulfate, Total Dissolved Solids, Total Hardness, Total Kjeldahl Nitrogen	16	-	-
MW-202R	Dolomite	Detection	None	Magnesium, Sodium, Sulfate	16	-	-
MW-203R	Dolomite	Background	None	-	16	-	-
MW-204	Dolomite	Detection	None	Arsenic, Magnesium, Potassium, Sulfate, Total Dissolved Solids, Total Hardness	16	-	-
MW-205	Dolomite	Background	None	-	16	-	-
MW-206	Dolomite	Detection	None	Nitrate/Nitrite as N, Sulfate	16	-	-
Lysimeters							
LDR-1	Not Applicable	Detection	None	Not Evaluated	16	-	-
LDR-2	Not Applicable	Detection	None	Not Evaluated	16	-	-
LDR-3	Not Applicable	Detection	None	Not Evaluated	16	-	-
Surface Water							
SW-1	Surface Water	Detection	None	Not Evaluated	13	-	-

Notes: Control limit exceedances listed are based on at least one exceedance during the reporting period.

Table 2 - continued
Monitoring Program Implementation Schedule
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Regime	Monitoring Well	Upcoming Sampling Dates and Constituents		Recent Sampling Dates and Constituents	
		4/29-30/2025	10/8-9/2025	2026 Spring Event	2026 Fall Event
Lysimeters	LDR-1	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters
	LDR-2	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters
	LDR-3	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters
Surface Water	SW-1	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters
Leachate	Phase 1, 2, & 3 Sump Composite	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	None	Total alkalinity, ammonia-nitrogen, chloride, hardness, nitrate/nitrite, pH, total phosphorus, specific conductance, sulfate, TDS, TKN, TOC, TSS, Total inorganic parameters	None

Notes: Total inorganic parameters include: aluminum, arsenic, calcium, chromium, lead, magnesium, potassium, selenium, and sodium.
TDS - Total Dissolved Solids
TKN - Total Kjeldahl Nitrogen
TOC - Total Organic Compounds
TSS - Total Suspended Solids

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Compliance with:	2023	2024	2025	2026
567 IAC 114.21(2)"a" high and low water levels (annually)	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"b" changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"c" well depths	Completed	Completed	Included	Scheduled
567 IAC 114.21(2)"d" well recharge rates ⁽¹⁾	Completed		Included	

Notes:

⁽¹⁾ In-situ permeability testing was replaced with biennial well recharge rate evaluation in DNR correspondence dated July 22, 2020 (Doc# 98114).

Table 4
Monitoring Well Performance and Maintenance Summary
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Regime	Well	Top of Casing	Top of Screen	Total Depth	Description	Date of Measurements	Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min)	Recent Flow Rate (L/min)	
						10/8-9/2025		4/26/2017	10/8-9/2025	% Change
Clay Unit	MW-101R	1129.88	1111.53	28.9	Groundwater Level (ft)	19.30	2.2	Grab and Purge Dry		
					Groundwater Elevation (Ft MSL)	1110.58				
					Measured Well Depth (ft)	26.7				
					Submerged screen	N				
	MW-102R	1128.29	1105.96	27.3	Groundwater Level (ft)	14.08	-1.7	Grab and Purge Dry		
					Groundwater Elevation (Ft MSL)	1114.21				
					Measured Well Depth (ft)	29.0				
					Submerged screen	Y				
	MW-103R	1125.10	1106.90	26.0	Groundwater Level (ft)	9.68	-0.1	Grab and Purge Dry		
					Groundwater Elevation (Ft MSL)	1115.42				
					Measured Well Depth (ft)	26.1				
					Submerged screen	Y				
Bedrock Unit	MW-201	1126.13	1094.41	42.0	Groundwater Level (ft)	12.20	0.2	0.183	0.167	-9%
					Groundwater Elevation (Ft MSL)	1113.93				
					Measured Well Depth (ft)	41.8				
					Submerged screen	Y				
	MW-202R	1128.58	1094.96	43.8	Groundwater Level (ft)	14.34	-1.6	0.213	0.175	-18%
					Groundwater Elevation (Ft MSL)	1114.24				
					Measured Well Depth (ft)	45.4				
					Submerged screen	Y				
	MW-203R	1149.85	1092.01	68.1	Groundwater Level (ft)	36.79	-0.6	0.138	0.192	39%
					Groundwater Elevation (Ft MSL)	1113.06				
					Measured Well Depth (ft)	68.7				
					Submerged screen	Y				
	MW-204	1123.80	1090.24	43.6	Groundwater Level (ft)	9.50	-0.1	0.300	0.183	-39%
					Groundwater Elevation (Ft MSL)	1114.30				
					Measured Well Depth (ft)	43.7				
					Submerged screen	Y				
	MW-205	1124.47	1088.82	45.7	Groundwater Level (ft)	11.00	-1.3	0.216	0.158	-27%
					Groundwater Elevation (Ft MSL)	1113.47				
					Measured Well Depth (ft)	47.0				
					Submerged screen	Y				
	MW-206	1128.80	1099.97	39.0	Groundwater Level (ft)	18.00	-0.6	0.250	0.150	-40%
					Groundwater Elevation (Ft MSL)	1110.80				
					Measured Well Depth (ft)	39.6				
					Submerged screen	Y				

Comments:

- 1) Measured well depths were within 1.0 foot of the installed depths where measured with the following exceptions:
(Shallower) MW-101R: This monitoring well has consistently measured approximately 2.4 feet shallower than the installed depth; however, since the monitoring well produced sufficient groundwater for sampling it is likely that the well is functioning properly.
(Deeper) MW-102R & MW-202R: These monitoring wells have consistently measured approximately 1.6 feet deeper than the installed depth. It is likely either the well construction information was recorded incorrectly or the wells were extended post-installation and the extensions were not recorded.
(Deeper) MW-205: This monitoring well was measured approximately 1.3 feet deeper than the installed depth during the fall 2025 sampling event and 0.7 feet deeper than the installed depth during the spring 2025 sampling event; however since the monitoring well produced sufficient groundwater for sampling it is likely that the well is functioning properly.

Table 5
Background and GWPS Summary
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Interwell Background/GWPS (Clay Unit: MW-101R)

Constituent	Units	Samples	Detections	Background Level	Statistical Test	Action Level	Source
Alkalinity, Total	mg/L	17	17	519.3 - 303.9	M+2SD	-	-
Aluminum	mg/L	16	10	1.393	M+2SD	0.05 mg/L	SMCL
Ammonia as N	mg/L	31	11	0.328	M+2SD	30.0 mg/L	HAL
Arsenic	mg/L	16	11	0.0047	M+2SD	0.01 mg/L	MCL
Bicarbonate	mg/L	10	10	529.2	M+2SD	-	-
Calcium	mg/L	17	17	224.8	M+2SD	-	-
Carbonate	mg/L	10	0	6.08	M+2SD	-	-
Chloride	mg/L	35	29	14.4	M+2SD	250 mg/L	SMCL
Chromium	mg/L	16	5	0.007	M+2SD	0.1 mg/L	SWS
Lead	mg/L	16	8	0.003	M+2SD	.015 mg/L	SWS
Magnesium	mg/L	17	17	126.4	M+2SD	-	-
Nitrate/Nitrite as N	mg/L	17	8	0.175	M+2SD	-	-
pH	S.U.	26	26	6.29 - 8.47	M+/-2SD	6.5 - 8.5	SMCL
Phosphorus, Total	mg/L	16	4	0.133	M+2SD	-	-
Potassium	mg/L	17	17	10.90	M+2SD	-	-
Selenium	mg/L	16	1	0.003	M+2SD	-	-
Sodium	mg/L	17	17	62.6	M+2SD	20 mg/L	DWA
Specific Conductance	µS/cm	27	27	2707	M+2SD	-	-
Sulfate	mg/L	17	17	684	M+2SD	250 mg/L	SMCL
Total Dissolved Solids	mg/L	33	33	2210	M+2SD	500 mg/L	SMCL
Total Hardness	mg/L	16	16	997	M+2SD	-	-
Total Kjeldahl Nitrogen	mg/L	16	0	0.50	M+2SD	-	-
Total Organic Carbon	mg/L	16	15	2.09	M+2SD	-	-

Interwell Background/GWPS (Bedrock Unit: MW-203R, MW-205)

Constituent	Units	Samples	Detections	Background Level	Statistical Test	Action Level	Source
Alkalinity, Total	mg/L	51	53	382.1 - 305.6	M+2SD	-	-
Aluminum	mg/L	44	4	0.127	M+2SD	0.05 mg/L	SMCL
Ammonia as N	mg/L	75	73	0.611	M+2SD	30.0 mg/L	HAL
Arsenic	mg/L	44	3	0.002	M+2SD	0.01 mg/L	MCL
Bicarbonate	mg/L	24	26	370.1	M+2SD	-	-
Calcium	mg/L	44	46	132.8	M+2SD	-	-
Carbonate	mg/L	24	0	5.772	M+2SD	-	-
Chloride	mg/L	75	55	29.1	M+2SD	250 mg/L	SMCL
Chromium	mg/L	44	5	0.018	M+2SD	0.1 mg/L	SWS
Lead	mg/L	44	5	0.002	M+2SD	.015 mg/L	SWS
Magnesium	mg/L	44	46	43.5	M+2SD	-	-
Nitrate/Nitrite as N	mg/L	51	0	0.050	M+2SD	-	-
pH	S.U.	65	65	5.52 - 10.04	M+/-2SD	6.5 - 8.5	SMCL
Phosphorus, Total	mg/L	51	3	0.146	M+2SD	-	-
Potassium	mg/L	44	46	10.4	M+2SD	-	-
Selenium	mg/L	44	3	0.003	M+2SD	-	-
Sodium	mg/L	44	46	20.4	M+2SD	20 mg/L	DWA
Specific Conductance	µS/cm	64	64	1707.3	M+2SD	-	-
Sulfate	mg/L	51	31	23.9	M+2SD	250 mg/L	SMCL
Total Dissolved Solids	mg/L	75	77	480.6	M+2SD	500 mg/L	SMCL
Total Hardness	mg/L	51	53	502	M+2SD	-	-
Total Kjeldahl Nitrogen	mg/L	51	14	0.674	M+2SD	-	-
Total Organic Carbon	mg/L	51	46	2.78	M+2SD	-	-

Notes:

- 1) Background levels based on most recent calculated control limits or reporting limit, as applicable.

Acronyms/Abbreviations:

RL = Reporting Limit

GWPS = Groundwater Protection Standard

SSS = Site-Specific GWPS

SWS = Statewide Standard

SD = Standard Deviation

MCL = EPA Maximum Contaminant Level

SMCL = Secondary Maximum Contaminant Level

HAL = Health Advisory Level

DWA = Drinking Water Advisory

ND = Non-Detection

Comments:

- 1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of control limits which consist of the mean plus two standard deviations (plus and minus two standard deviations for pH).
- 2) **Changes to the previous statistical method during reporting period:** None.

Table 6
Summary of Well/Detected Constituent Pairs With No Immediately Preceding Control Limit Exceedances
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Spring 2025

Well	Constituent	Units	Result	Background Standard
MW-201	Nitrate/Nitrite as N	mg/L	0.249	0.050
MW-206	Nitrate/Nitrite as N	mg/L	0.0805	0.050

Fall 2025

Well	Constituent	Units	Result	Background Standard
MW-201	Ammonia as N	mg/L	0.647	0.611
	Bicarbonate	mg/L	400	370.1
	Total Hardness	mg/L	522	502.0
	Total Kjeldahl Nitrogen	mg/L	1.35	0.674
MW-204	Arsenic	mg/L	0.0022	0.002
	Total Hardness	mg/L	517	502

Note: Table include control limit exceedances identified during the 2025 sampling events that were not identified as control limit exceedances in the previous year.

Comments:

- 1) **Problems with the current HMSP network:** None.
- 2) **Schedule to implement remedies:** Not applicable.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Significant changes to prediction limits:** None.

Table 7
Summary Table of Ongoing and Newly Identified Control Limit Exceedances
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Key

	Denotes ongoing control limit exceedances that were identified as control limit exceedances during this reporting period and the previous reporting period at least once during each reporting period.
	Denotes newly identified control limit exceedances in the 2025 reporting period. Newly identified is defined as occurring at least once in the current reporting period but not in the immediately preceeding reporting period.

Well	Constituent	Units	Most Recent Result	Background Standard	Action Level/ Statewide Standard
MW-103P	Alkalinity, Total	mg/L	646	519.3 - 303.9	-
	Bicarbonate	mg/L	646	529.19	-
	Calcium	mg/L	454	224.8	-
	Magnesium	mg/L	248	126.4	-
	Potassium	mg/L	13	10.9	-
	Specific Conductance	µS/cm	3017	2706.8	-
	Sulfate	mg/L	1470	683.8	250 mg/L
	Total Dissolved Solids	mg/L	2520	2209.9	500 mg/L
	Total Hardness	mg/L	2150	996.8	-
MW-103R-NP	Alkalinity, Total	mg/L	607	519.3 - 303.9	-
	Bicarbonate	mg/L	607	529.19	-
	Calcium	mg/L	525	224.8	-
	Chloride	mg/L	19.1	14.4	250 mg/L
	Magnesium	mg/L	305	126.4	-
	Nitrate/Nitrite as N	mg/L	<0.100	0.1746	-
	Potassium	mg/L	25.7	10.9	-
	Specific Conductance	µS/cm	3485	2706.8	-
	Sulfate	mg/L	1790	683.8	250 mg/L
	Total Dissolved Solids	mg/L	3110	2209.9	500 mg/L
	Total Hardness	mg/L	2570	996.8	-
MW-201	Alkalinity, Total	mg/L	400	382.1 - 305.6	-
	Ammonia as N	mg/L	0.647	0.611	30.0 mg/L
	Bicarbonate	mg/L	400	370.07	-
	Chloride	mg/L	30.6	29.1	250 mg/L
	Magnesium	mg/L	55.8	43.5	-
	Nitrate/Nitrite as N	mg/L	<0.100	0.050	-
	Potassium	mg/L	25.4	10.4	-
	Sodium	mg/L	27.1	20.4	20 mg/L
	Sulfate	mg/L	136	23.9	250 mg/L
	Total Dissolved Solids	mg/L	626	480.6	500 mg/L
	Total Hardness	mg/L	517	502.0	-
	Total Kjeldakhl Nitrogen	mg/L	1.35	0.67	-
MW-202R	Magnesium	mg/L	53.4	43.5	-
	Sodium	mg/L	27.1	20.4	20 mg/L
	Sulfate	mg/L	100	23.9	250 mg/L
MW-204	Arsenic	mg/L	0.00222	0.0016	0.01 mg/L
	Magnesium	mg/L	57	43.5	-
	Potassium	mg/L	10.8	10.4	-
	Sulfate	mg/L	26.7	23.9	250 mg/L
	Total Dissolved Solids	mg/L	626	480.6	500 mg/L
	Total Hardness	mg/L	517	502.0	-
MW-206	Nitrate/Nitrite as N	mg/L	<0.100	0.050	-
	Sulfate	mg/L	26.7	23.9	250 mg/L

Comments:

- 1) **Problems with the current HMSP network:** None.
- 2) **Proposed remedies:** None.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** Not Applicable.
- 5) **Property owner notifications:** Not applicable.

Table 8
Summary of Groundwater Chemistry
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

The Summary of Groundwater Chemistry is located in Appendix C.

Table 9
Historical Control Limit & Action Level Exceedances
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Key

	Control Limit Exceedance
X	Action Level Exceedance

Well	Constituent	2022	2023	2024	2025
MW-102R-NP	Alkalinity, Total				
	Bicarbonate				
	Calcium				
	Magnesium				
	Potassium				
	Sodium	X	X	X	X
	Specific Conductance				
	Sulfate	X	X	X	X
	Total Dissolved Solids	X	X	X	X
	Total Hardness				
	Total Organic Carbon				
MW-103R-NP	Alkalinity, Total				
	Bicarbonate				
	Calcium				
	Chloride				
	Magnesium				
	Nitrate/Nitrite as N				
	Potassium				
	Sodium	X	X	X	X
	Specific Conductance				
	Sulfate	X	X	X	X
	Total Dissolved Solids	X	X	X	X
	Total Hardness				
	Total Organic Carbon				
MW-201	Alkalinity, Total				
	Ammonia as N				
	Arsenic				
	Bicarbonate				
	Chloride				
	Lead				
	Magnesium				
	Nitrate/Nitrite as N				
	pH		X		
	Potassium				
	Selenium				
	Sodium	X	X	X	X
	Sulfate				
	Total Dissolved Solids	X	X	X	X
	Total Hardness				
	Total Kjeldahl Nitrogen				
MW-202R	Total Alkalinity				
	Bicarbonate				
	Carbonate				
	Magnesium				
	Nitrate/Nitrite as N				
	pH	X	X		
	Sodium	X	X	X	X
	Sulfate				
MW-204	Arsenic				
	Total Alkalinity				
	Bicarbonate				
	Magnesium				
	Potassium				
	Sodium		X	X	X
	Sulfate				
	Total Dissolved Solids	X	X	X	X
	Total Hardness				
MW-206	Ammonia as N				
	Nitrate/Nitrite as N				
	Sulfate				

Comments: Action level exceedances for upgradeint monitoring wells not included.

Table 10
Groundwater Quality Assessment Plan Trend Analysis
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

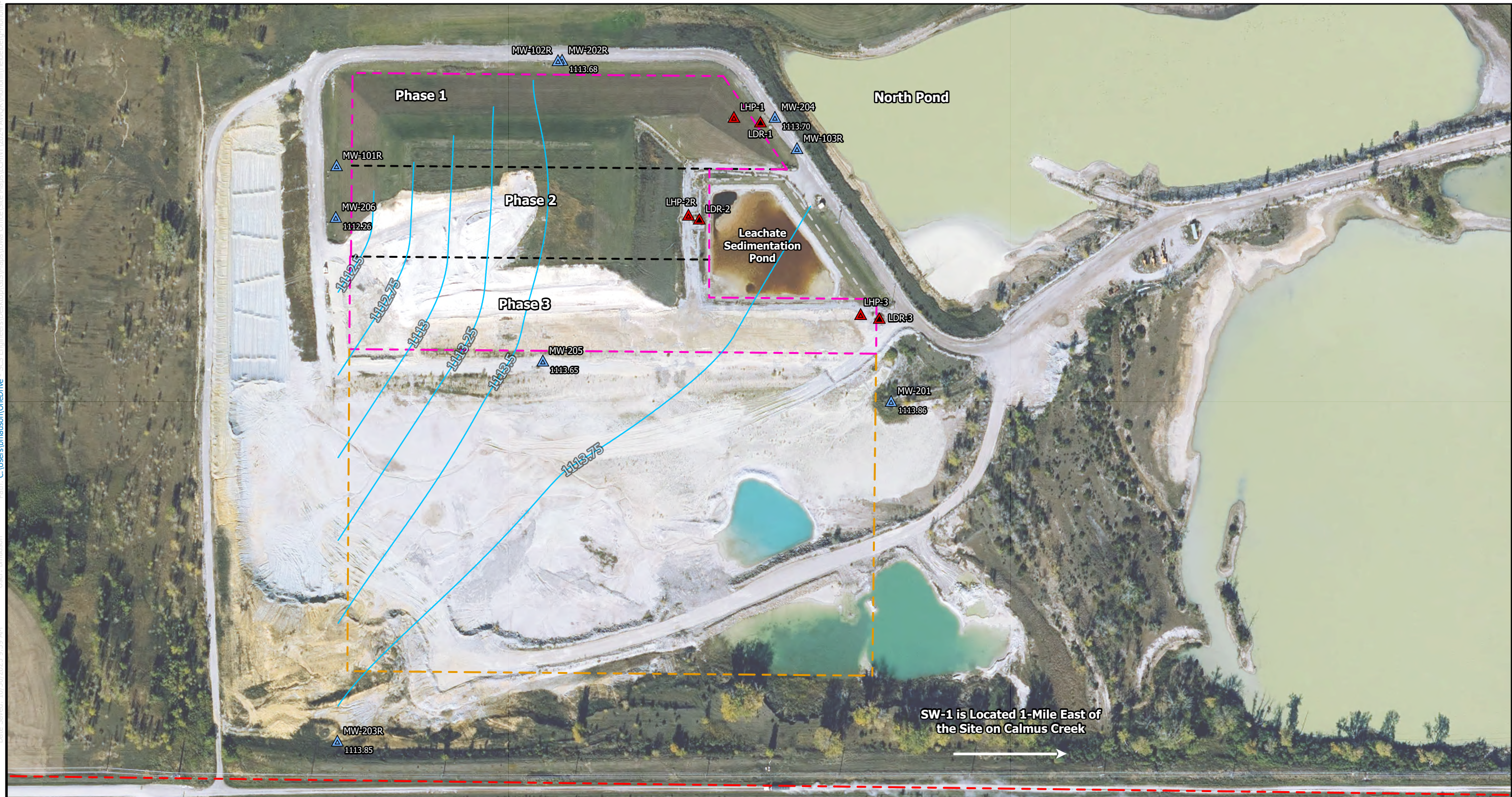
See Appendix E for Mann-Kendall Trend Analysis.

Figures

- 1 Approved Monitoring Network
- 2 Spring Groundwater Contours (Clay)
- 3 Fall Groundwater Contours (Clay)
- 4 Spring Groundwater Contours (Bedrock)
- 5 Fall Groundwater Contours (Bedrock)



Path: C:\Users\hmadson\OneDrive
User: hmadson
Data Saved: 10/20/2025 9:29 AM
SCS Engineers\Desktop\GIS\Map\Lehigh Cement\Site Map\Lehigh Cement\Map\2024



Spring Groundwater Contours (Bedrock)

Legend

Approximate Groundwater
Contours Based on Field
Measurements Taken April 29-30,
2025

Monitoring Well

Leachate Piezometer

Leak Detection Lysimeter

Waste Boundary

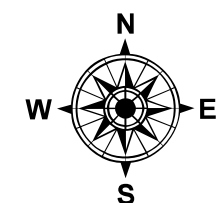
Existing Cell Boundary

FML Liner Boundary

Future Waste Boundary

Property Boundary

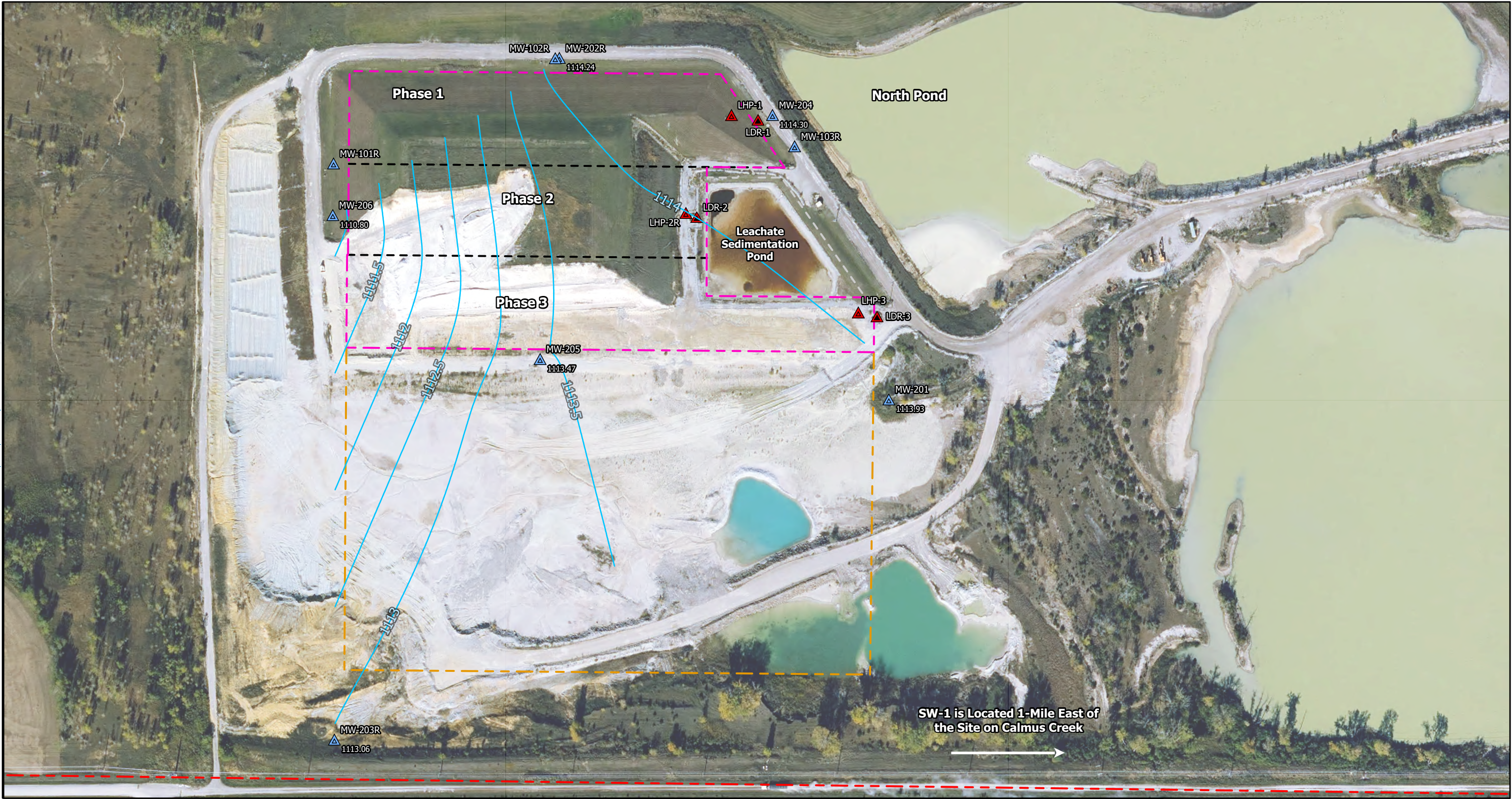
Lehigh Cement Company
Mason City, Iowa
Project No: 27225178.00
Drawing Date: November
2025



0 110 220 440 660 Feet

Figure 4

C:\Users\hmadson\OneDrive Path: C:\Users\hmadson\OneDrive User: hmadson Date Saved: 10/20/2025 9:29 AM SCS Engineers\Desktop\GIS\Map\Lehigh Cement\Site Map\Fall Groundwater Contours.mxd



Fall Groundwater Contours (Bedrock)

Legend

- | | | |
|--|----------------------------|-------------------------|
| Approximate Groundwater Contours Based on Field Measurements Taken October 8-9, 2025 | ▲ Leachate Piezometer | — FML Liner Boundary |
| ▲ Monitoring Well | ▲ Leak Detection Lysimeter | — Future Waste Boundary |
| | — Waste Boundary | — Property Boundary |
| | — Existing Cell Boundary | |

Lehigh Cement Company
Mason City, Iowa
Project No: 27225178.00
Drawing Date: November 2025

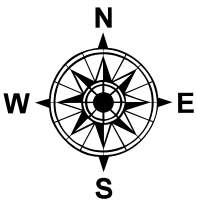


Figure 5



Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill			
Monitoring Well/Piezometer ID: MW-101R-RECHARGE		Date: 4/30/2025	
Gradient: Up		Sampler: Konner Roth	

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.5
Initial Static Water Level (feet):	17.60
Initial Groundwater Elevation (ft-amsl):	1112.28
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:27 AM	Purging start time.						
9:30 AM	10.7	0.8	1198.3	7.08	140.4	236.4	
9:33 AM	10.7	0.5	990.7	7.09	75.1	94.7	
9:36 AM	10.7	0.3	930.8	7.09	44.2	45.6	
9:39 AM	10.7	0.2	900.0	7.10	29.4	56.5	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-201	Date: 4/29/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	41.4
Initial Static Water Level (feet):	12.27
Initial Groundwater Elevation (ft-amsl):	1113.86
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:52 PM	Purging start time.						
3:55 PM	9.7	1.0	798.6	8.24	-8.2	2.6	
3:58 PM	9.8	0.7	792.6	8.25	10.4	2.6	
4:01 PM	9.8	0.6	793.0	8.24	22.5	2.6	
4:04 PM	9.8	0.6	792.1	8.24	28.8	2.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-203R	Date: 4/29/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	68.7
Initial Static Water Level (feet):	36.00
Initial Groundwater Elevation (ft-amsl):	1113.85
Equipment Used:	Dedicated Submersible

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:00 PM	Purging start time.						
2:03 PM	10.3	0.3	624.5	7.18	-48.7	5.3	
2:06 PM	10.5	0.1	617.5	7.18	-53.3	4.2	
2:09 PM	10.5	0.1	614.2	7.18	-54.9	3.6	
2:12 PM	10.6	<0.1	611.3	7.18	-56.1	5.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-204	Date: 4/29/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	43.7
Initial Static Water Level (feet):	10.10
Initial Groundwater Elevation (ft-amsl):	1113.70
Equipment Used: Dedicated Tubing – Peristaltic Pump	

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:11 PM	Purging start time.						
3:14 PM	11.2	0.7	916.4	7.10	-45.3	3.0	
3:17 PM	11.2	0.2	933.9	7.08	-48.2	2.6	
3:20 PM	11.2	0.1	942.2	7.06	-46.0	2.7	
3:23 PM	11.2	0.1	942.9	7.06	-44.2	3.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-205	Date: 4/29/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	46.4
Initial Static Water Level (feet):	10.82
Initial Groundwater Elevation (ft-amsl):	1113.65
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:47 PM	Purging start time.						
4:50 PM	10.8	0.5	651.1	7.16	-44.2	3.1	
4:53 PM	10.7	0.2	652.6	7.15	-46.6	4.4	
4:56 PM	10.7	0.1	652.6	7.15	-51.6	7.8	
4:59 PM	10.6	0.1	652.2	7.15	-55.0	11.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-206	Date: 4/29/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	39.5
Initial Static Water Level (feet):	16.54
Initial Groundwater Elevation (ft-amsl):	1112.26
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
5:21 PM	Purging start time.						
5:24 PM	11.3	1.4	690.6	7.19	66.9	4.5	
5:27 PM	11.3	0.5	686.2	7.15	70.5	5.7	
5:30 PM	11.3	0.4	686.4	7.13	68.0	10.8	
5:33 PM	11.3	0.3	686.6	7.12	66.3	17.8	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-1	Date: 4/30/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	20.3
Initial Static Water Level (feet):	10.50
Initial Groundwater Elevation (ft-amsl):	1115.31
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:07 AM	Purging start time.						
10:10 AM	10.0	6.1	3128.6	7.06	131.2	797.5	
10:13 AM	10.1	6.0	3134.3	7.07	150.6	268.0	
10:16 AM	10.4	6.0	3129.3	7.08	161.2	220.5	
10:19 AM	10.0	6.0	3135.6	7.08	167.7	317.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Cloudy Odor-None Volume Evacuated: 21 gallons

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-2	Date: 4/30/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	13.1
Initial Static Water Level (feet):	6.88
Initial Groundwater Elevation (ft-amsl):	1115.52
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:38 AM	Purging start time.						
10:41 AM	9.4	3.2	3321.2	6.73	187.7	15.0	
10:44 AM	9.5	3.4	3298.3	6.76	187.7	7.3	
10:47 AM	9.3	3.6	3294.8	6.78	187.9	5.8	
10:50 AM	9.3	3.8	3290.9	6.79	188.5	5.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color-Clear Odor-None Volume Evacuated: 8 gallons

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-3	Date: 4/30/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	16.9
Initial Static Water Level (feet):	13.90
Initial Groundwater Elevation (ft-amsl):	1109.69
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:11 AM	Purging start time.						
11:14 AM	8.4	0.4	6178.0	6.58	203.8	15.1	
11:17 AM	8.4	0.2	6179.9	6.58	197.3	10.8	
11:20 AM	8.3	0.2	6185.0	6.59	192.8	9.0	
11:23 AM	8.0	0.1	6184.3	6.59	189.6	9.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color-Clear Odor-None Volume Evacuated: 6 gallons

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill			
Monitoring Well/Piezometer ID: MW-101R-RECHARGE		Date: 10/9/2025	
Gradient: Up		Sampler: Konner Roth	

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.7
Initial Static Water Level (feet):	19.25
Initial Groundwater Elevation (ft-amsl):	1110.63
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
9:26 AM	Purging start time.						
9:29 AM	11.5	1.2	1113.5	7.25	194.3	76.6	
9:32 AM	11.5	0.7	1040.9	7.22	188.7	93.8	
9:35 AM	11.5	0.5	1006.3	7.21	179.7	85.7	
9:38 AM	11.5	0.4	972.2	7.20	158.7	68.9	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill			
Monitoring Well/Piezometer ID: MW-103R-RECHARGE		Date: 10/9/2025	
Gradient: Down		Sampler: Konner Roth	

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.1
Initial Static Water Level (feet):	16.00
Initial Groundwater Elevation (ft-amsl):	1109.10
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
8:52 AM	Purging start time.						
8:55 AM	12.4	1.2	3497.5	6.71	208.5	3.4	
8:58 AM	12.7	2.1	3482.8	6.76	202.8	4.5	
9:01 AM	12.9	2.4	3471.5	6.78	200.1	5.9	
9:04 AM	13.1	2.3	3472.3	6.77	198.2	6.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-201	Date: 10/9/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	41.8
Initial Static Water Level (feet):	12.20
Initial Groundwater Elevation (ft-amsl):	1113.93
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:44 AM	Purging start time.						
10:47 AM	15.4	0.8	1024.6	7.81	-7.1	4.4	
10:50 AM	15.2	0.3	1035.6	7.83	-81.5	11.0	
10:53 AM	15.1	0.2	1035.7	7.82	-105.2	20.5	
10:56 AM	15.2	0.2	1035.7	7.82	-119.3	36.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-202R	Date: 10/8/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	45.4
Initial Static Water Level (feet):	14.34
Initial Groundwater Elevation (ft-amsl):	1114.24
Equipment Used: Dedicated Tubing – Peristaltic Pump	

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:36 PM	Purging start time.						
4:39 PM	14.2	0.8	693.6	9.58	126.9	2.4	
4:42 PM	14.1	0.3	753.7	8.37	131.2	2.5	
4:45 PM	14.0	0.2	817.2	7.54	24.7	2.8	
4:48 PM	13.6	0.1	828.4	7.62	-135.3	3.2	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-203R	Date: 10/8/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	68.7
Initial Static Water Level (feet):	36.79
Initial Groundwater Elevation (ft-amsl):	1113.06
Equipment Used:	Dedicated Submersible

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
3:31 PM	Purging start time.						
3:34 PM	12.7	0.8	652.1	7.26	33.3	5.3	
3:37 PM	12.0	0.3	653.2	7.23	-31.1	5.7	
3:40 PM	10.9	0.2	647.1	7.23	-44.5	4.3	
3:43 PM	10.9	0.0	637.2	7.23	-47.5	4.6	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-204	Date: 10/8/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	43.7
Initial Static Water Level (feet):	9.50
Initial Groundwater Elevation (ft-amsl):	1114.30
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
4:04 PM	Purging start time.						
4:07 PM	14.5	0.6	953.2	7.15	15.7	3.1	
4:10 PM	14.5	0.3	970.6	7.12	1.2	2.7	
4:13 PM	14.4	0.2	984.1	7.09	1.9	2.8	
4:16 PM	14.4	0.1	989.7	7.08	1.5	3.0	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-205	Date: 10/9/2025
Gradient: Up	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	47.0
Initial Static Water Level (feet):	11.00
Initial Groundwater Elevation (ft-amsl):	1113.47
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
10:04 AM	Purging start time.						
10:07 AM	12.7	0.7	690.6	7.27	-4.6	4.2	
10:10 AM	12.6	0.3	685.5	7.23	-29.9	7.2	
10:13 AM	12.6	0.2	685.0	7.23	-35.8	12.4	
10:16 AM	12.6	0.1	684.6	7.22	-38.7	18.4	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: MW-206	Date: 10/8/2025
Gradient: Down	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	39.6
Initial Static Water Level (feet):	18.00
Initial Groundwater Elevation (ft-amsl):	1110.80
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
2:37 PM	Purging start time.						
2:40 PM	13.0	0.6	735.6	7.13	133.5	10.6	
2:43 PM	12.8	0.3	723.8	7.12	90.7	21.9	
2:46 PM	12.9	0.2	720.9	7.12	70.4	42.9	
2:49 PM	12.8	0.1	721.3	7.12	61.4	56.5	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-1	Date: 10/9/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped? Yes	
Litter/Standing Water? No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	18.1
Initial Static Water Level (feet):	9.60
Initial Groundwater Elevation (ft-amsl):	1116.21
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
11:19 AM	Purging start time.						
11:22 AM	15.5	1.1	3285.3	6.69	67.3	4.0	
11:25 AM	15.6	0.6	3357.0	6.68	68.8	4.9	
11:28 AM	14.5	0.4	3364.7	6.69	53.9	6.6	
11:31 AM	14.3	0.3	3363.0	6.70	45.9	10.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color-Clear Odor-None Volume Evacuated: 33 gallons

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-2	Date: 10/9/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	13.8
Initial Static Water Level (feet):	4.20
Initial Groundwater Elevation (ft-amsl):	1118.20
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:00 PM	Purging start time.						
12:03 PM	16.5	0.4	3541.4	6.49	108.8	5.6	
12:06 PM	16.4	0.2	3540.0	6.49	107.6	14.0	
12:09 PM	16.7	0.1	3534.6	6.49	106.2	20.5	
12:12 PM	16.4	0.1	3547.6	6.49	105.2	31.5	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE	
Does the well require any future maintenance? No	
If yes, explain:	
Additional Comments:	Color-Clear Odor-None Volume Evacuated: 15 gallons

FORM FOR GROUNDWATER SAMPLING

Project: Heidelberg Materials US Cement CKD Monofill	
Monitoring Well/Piezometer ID: LDR-3	Date: 10/9/2025
Gradient: NA	Sampler: Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	17.3
Initial Static Water Level (feet):	12.01
Initial Groundwater Elevation (ft-amsl):	1111.58
Equipment Used:	Other

C. WELL PURGING							
FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES							
Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	
12:40 PM	Purging start time.						
12:43 PM	17.8	0.7	6682.3	6.53	76.0	12.3	
12:46 PM	17.4	0.3	6706.7	6.53	45.8	6.6	
12:49 PM	17.4	0.2	6699.7	6.53	38.0	5.2	
12:52 PM	17.8	0.1	6698.0	6.53	34.7	5.1	
Parameters stabilized, sample collected.							

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

D. WELL MAINTENANCE	
Does the well require any future maintenance?	No
If yes, explain:	
Additional Comments:	Color-Clear Odor-None Volume Evacuated: 45 gallons

Appendix B-1

Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Jensen
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 5/14/2025 8:38:49 AM

JOB DESCRIPTION

Heidelberg CKD Monofill-Spring 2025

JOB NUMBER

310-305512-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
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Case Narrative

Client: SCS Engineers
Project: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Job ID: 310-305512-1

Eurofins Cedar Falls

Job Narrative 310-305512-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/1/2025 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.2°C, 0.4°C, 0.6°C and 2.1°C.

HPLC/IC

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW-203R (310-305512-3). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers

Job ID: 310-305512-1

Project/Site: Heidelberg CKD Monofill-Spring 2025

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-305512-1	MW-201	Water	04/29/25 16:20	05/01/25 16:05
310-305512-2	MW-202R	Water	04/29/25 15:01	05/01/25 16:05
310-305512-3	MW-203R	Water	04/29/25 14:26	05/01/25 16:05
310-305512-4	MW-204	Water	04/29/25 15:38	05/01/25 16:05
310-305512-5	MW-205	Water	04/29/25 17:14	05/01/25 16:05
310-305512-6	MW-206	Water	04/29/25 18:00	05/01/25 16:05
310-305512-7	LDR-1	Water	04/30/25 10:35	05/01/25 16:05
310-305512-8	LDR-2	Water	04/30/25 10:56	05/01/25 16:05
310-305512-9	LDR-3	Water	04/30/25 11:35	05/01/25 16:05
310-305512-10	SW-1	Water	04/29/25 18:15	05/01/25 16:05
310-305512-11	Phase 1,2,3 Sump Composite	Water	04/30/25 12:05	05/01/25 16:05
310-305512-12	MW-D	Water	04/29/25 18:00	05/01/25 16:05
310-305512-13	MW-101R-No Purge	Water	04/29/25 13:35	05/01/25 16:05
310-305512-14	MW-102R-No Purge	Water	04/29/25 13:00	05/01/25 16:05
310-305512-15	MW-103R-No Purge	Water	04/29/25 12:26	05/01/25 16:05
310-305512-16	MW-101R-Recharge	Water	04/30/25 09:56	05/01/25 16:05
310-305512-17	MW-103R-Recharge	Water	04/30/25 09:15	05/01/25 16:05

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-201

Lab Sample ID: 310-305512-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	31.7		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	129		20.0	8.40	mg/L	20			9056A	Total/NA
Arsenic	0.000689	J	0.00200	0.000530	mg/L	1			6020B	Total/NA
Calcium	86.9		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	54.9		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	26.1		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	26.0		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	443		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.398	J	0.500	0.210	mg/L	1			350.1	Total/NA
Nitrate Nitrite as N	0.249		0.100	0.0800	mg/L	1			353.2	Total/NA
Total Phosphorus as P	0.0899	J	0.100	0.0680	mg/L	1			365.1	Total/NA
Total Organic Carbon	1.73		1.00	0.500	mg/L	1			9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	288		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	288		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	496		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-202R

Lab Sample ID: 310-305512-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	20.2		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	101		20.0	8.40	mg/L	20			9056A	Total/NA
Calcium	74.0		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	54.8		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	6.37		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	24.0		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	410		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.311	J	0.500	0.210	mg/L	1			350.1	Total/NA
Total Organic Carbon	1.41		1.00	0.500	mg/L	1			9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	325		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	325		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	460		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-203R

Lab Sample ID: 310-305512-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	3.47	J	5.00	2.25	mg/L	5			9056A	Total/NA
Calcium	68.7		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	33.0		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	4.55		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	16.5		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	307		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.358	J	0.500	0.210	mg/L	1			350.1	Total/NA
Total Organic Carbon	1.27		1.00	0.500	mg/L	1			9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	338		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	338		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	318		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-204

Lab Sample ID: 310-305512-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	27.1		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	155		20.0	8.40	mg/L	20			9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-204 (Continued)

Lab Sample ID: 310-305512-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	106		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	55.4		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	10.9		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	19.2		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	493		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.335	J	0.500	0.210	mg/L	1			350.1	Total/NA
Total Organic Carbon	1.48		1.00	0.500	mg/L	1			9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	339		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	339		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	572		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-205

Lab Sample ID: 310-305512-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.15	J	5.00	2.25	mg/L	5			9056A	Total/NA
Sulfate	15.6		5.00	2.10	mg/L	5			9056A	Total/NA
Calcium	73.7		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	36.3		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	5.32		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	17.3		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	334		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.245	J	0.500	0.210	mg/L	1			350.1	Total/NA
Total Organic Carbon	1.17		1.00	0.500	mg/L	1			9060A	Total/NA
Total Suspended Solids	1.88		1.88	1.31	mg/L	1			I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	343		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	343		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	340		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: MW-206

Lab Sample ID: 310-305512-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.28	J	5.00	2.25	mg/L	5			9056A	Total/NA
Sulfate	26.5		5.00	2.10	mg/L	5			9056A	Total/NA
Calcium	84.6		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	37.1		0.500	0.150	mg/L	1			6020B	Total/NA
Potassium	7.20		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	17.7		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	364		2.06	0.618	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.243	J	0.500	0.210	mg/L	1			350.1	Total/NA
Total Organic Carbon	1.16		1.00	0.500	mg/L	1			9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	359		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	359		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	360		50.0	36.0	mg/L	1			SM 2540C	Total/NA

Client Sample ID: LDR-1

Lab Sample ID: 310-305512-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	34.8		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	1630		20.0	8.40	mg/L	20			9056A	Total/NA
Aluminum	2.45		0.0500	0.0290	mg/L	1			6020B	Total/NA
Arsenic	0.00127	J	0.00200	0.000530	mg/L	1			6020B	Total/NA
Calcium	440		0.500	0.190	mg/L	1			6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-1 (Continued)

Lab Sample ID: 310-305512-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chromium	0.0119		0.00500	0.00180	mg/L	1			6020B	Total/NA
Lead	0.000869		0.000500	0.000330	mg/L	1			6020B	Total/NA
Magnesium	241		2.00	0.600	mg/L	4			6020B	Total/NA
Potassium	48.5		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	27.0		4.00	2.60	mg/L	4			6020B	Total/NA
Total Hardness	2090		8.24	2.47	mg/L	1			SM 2340B	Total/NA
Nitrate Nitrite as N	0.128		0.100	0.0800	mg/L	1			353.2	Total/NA
Total Phosphorus as P	0.392		0.100	0.0680	mg/L	1			365.1	Total/NA
Total Organic Carbon	1.45		1.00	0.500	mg/L	1			9060A	Total/NA
Total Suspended Solids	217		15.0	10.5	mg/L	1			I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	549		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	549		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	2870		250	180	mg/L	1			SM 2540C	Total/NA

Client Sample ID: LDR-2

Lab Sample ID: 310-305512-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	169		20.0	9.00	mg/L	20			9056A	Total/NA
Sulfate	1370		20.0	8.40	mg/L	20			9056A	Total/NA
Calcium	436		0.500	0.190	mg/L	1			6020B	Total/NA
Magnesium	235		2.00	0.600	mg/L	4			6020B	Total/NA
Potassium	67.7		0.500	0.170	mg/L	1			6020B	Total/NA
Sodium	61.7		1.00	0.650	mg/L	1			6020B	Total/NA
Total Hardness	2060		8.24	2.47	mg/L	1			SM 2340B	Total/NA
Total Organic Carbon	1.46		1.00	0.500	mg/L	1			9060A	Total/NA
Total Suspended Solids	3.25		1.88	1.31	mg/L	1			I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	591		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	591		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	2770		250	180	mg/L	1			SM 2540C	Total/NA

Client Sample ID: LDR-3

Lab Sample ID: 310-305512-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	657		100	45.0	mg/L	100			9056A	Total/NA
Sulfate	2370		100	42.0	mg/L	100			9056A	Total/NA
Calcium	612		3.50	1.33	mg/L	7			6020B	Total/NA
Magnesium	359		3.50	1.05	mg/L	7			6020B	Total/NA
Potassium	458		3.50	1.19	mg/L	7			6020B	Total/NA
Sodium	114		7.00	4.55	mg/L	7			6020B	Total/NA
Total Hardness	3010		14.4	4.32	mg/L	1			SM 2340B	Total/NA
Ammonia as N	0.319	J	0.500	0.210	mg/L	1			350.1	Total/NA
Nitrate Nitrite as N	0.526		0.100	0.0800	mg/L	1			353.2	Total/NA
Total Organic Carbon	1.06		1.00	0.500	mg/L	1			9060A	Total/NA
Total Suspended Solids	4.00		1.88	1.31	mg/L	1			I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	628		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	628		5.00	2.50	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	5190		250	180	mg/L	1			SM 2540C	Total/NA

Client Sample ID: SW-1

Lab Sample ID: 310-305512-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	43.6		20.0	9.00	mg/L	20			9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: SW-1 (Continued)

Lab Sample ID: 310-305512-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	113		20.0	8.40	mg/L	20		9056A	Total/NA
Aluminum	0.0322	J	0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.00132	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	66.5		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	20.2		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	137		2.00	0.680	mg/L	4		6020B	Total/NA
Sodium	9.53		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	249		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Total Phosphorus as P	0.0680	J	0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	9.83		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	3.75		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	259		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	259		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Phase 1,2,3 Sump Composite

Lab Sample ID: 310-305512-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1500		100	45.0	mg/L	100		9056A	Total/NA
Sulfate	4700		100	42.0	mg/L	100		9056A	Total/NA
Aluminum	2.43		0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.171		0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	42.5		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.207		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.0232		0.000500	0.000330	mg/L	1		6020B	Total/NA
Magnesium	9.76		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	9070		75.0	25.5	mg/L	150		6020B	Total/NA
Selenium	0.276		0.00500	0.00140	mg/L	1		6020B	Total/NA
Sodium	502		150	97.5	mg/L	150		6020B	Total/NA
Total Hardness	146		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	2.97		0.500	0.210	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	5.39		1.00	0.620	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	2.39		0.100	0.0800	mg/L	1		353.2	Total/NA
Total Phosphorus as P	2.35		0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	42.6		40.0	20.0	mg/L	40		9060A	Total/NA
Total Suspended Solids	406		30.0	21.0	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	5360		100	50.0	mg/L	1		SM 2320B	Total/NA
Carbonate Alkalinity as CaCO3	2440		100	50.0	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	19900		2500	1800	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-305512-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.22	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	26.5		20.0	8.40	mg/L	20		9056A	Total/NA
Calcium	77.1		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	35.4		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	6.08		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	17.1		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	338		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.111		0.100	0.0800	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.16		1.00	0.500	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-D (Continued)

Lab Sample ID: 310-305512-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Total Suspended Solids	2.25		1.88	1.31	mg/L		1		I-3765-85	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	359		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO ₃	359		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Total Dissolved Solids	364		50.0	36.0	mg/L		1		SM 2540C	Total/NA

Client Sample ID: MW-101R-No Purge

Lab Sample ID: 310-305512-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	4.02	J	5.00	2.25	mg/L		5		9056A	Total/NA
Sulfate	250		5.00	2.10	mg/L		5		9056A	Total/NA
Aluminum	2.30		0.0500	0.0290	mg/L		1		6020B	Total/NA
Arsenic	0.00622		0.00200	0.000530	mg/L		1		6020B	Total/NA
Calcium	147		0.500	0.190	mg/L		1		6020B	Total/NA
Chromium	0.00600		0.00500	0.00180	mg/L		1		6020B	Total/NA
Lead	0.00297		0.000500	0.000330	mg/L		1		6020B	Total/NA
Magnesium	84.9		0.500	0.150	mg/L		1		6020B	Total/NA
Potassium	9.14		0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	45.0		1.00	0.650	mg/L		1		6020B	Total/NA
Total Hardness	717		2.06	0.618	mg/L		1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.101		0.100	0.0800	mg/L		1		353.2	Total/NA
Total Phosphorus as P	0.175		0.100	0.0680	mg/L		1		365.1	Total/NA
Total Organic Carbon	1.05		1.00	0.500	mg/L		1		9060A	Total/NA
Total Suspended Solids	97.0		3.75	2.63	mg/L		1		I-3765-85	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	421		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO ₃	421		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Total Dissolved Solids	834		50.0	36.0	mg/L		1		SM 2540C	Total/NA

Client Sample ID: MW-102R-No Purge

Lab Sample ID: 310-305512-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.71		5.00	2.25	mg/L		5		9056A	Total/NA
Sulfate	1520		20.0	8.40	mg/L		20		9056A	Total/NA
Calcium	445		0.500	0.190	mg/L		1		6020B	Total/NA
Magnesium	256		2.00	0.600	mg/L		4		6020B	Total/NA
Potassium	12.6		0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	50.3		1.00	0.650	mg/L		1		6020B	Total/NA
Total Hardness	2170		8.24	2.47	mg/L		1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.128		0.100	0.0800	mg/L		1		353.2	Total/NA
Total Organic Carbon	1.36		1.00	0.500	mg/L		1		9060A	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	658		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO ₃	658		5.00	2.50	mg/L		1		SM 2320B	Total/NA
Total Dissolved Solids	2750		50.0	36.0	mg/L		1		SM 2540C	Total/NA

Client Sample ID: MW-103R-No Purge

Lab Sample ID: 310-305512-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	19.2		10.0	4.50	mg/L		10		9056A	Total/NA
Sulfate	1750		100	42.0	mg/L		100		9056A	Total/NA
Calcium	462		2.00	0.760	mg/L		4		6020B	Total/NA
Magnesium	281		2.00	0.600	mg/L		4		6020B	Total/NA
Potassium	29.2		0.500	0.170	mg/L		1		6020B	Total/NA
Sodium	57.2		4.00	2.60	mg/L		4		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-103R-No Purge (Continued)

Lab Sample ID: 310-305512-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Hardness	2310		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.268		0.100	0.0800	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.35		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	637		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	637		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3060		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-101R-Recharge

Lab Sample ID: 310-305512-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.20	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	118		5.00	2.10	mg/L	5		9056A	Total/NA
Aluminum	1.04		0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.00615		0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	94.8		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.00180	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000624		0.000500	0.000330	mg/L	1		6020B	Total/NA
Magnesium	52.9		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	6.54		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	28.3		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	455		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Total Phosphorus as P	0.108		0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	1.14		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	38.1		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	371		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	371		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	522		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-103R-Recharge

Lab Sample ID: 310-305512-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19.1		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	1760		20.0	8.40	mg/L	20		9056A	Total/NA
Aluminum	0.0399	J	0.0500	0.0290	mg/L	1		6020B	Total/NA
Calcium	478		2.00	0.760	mg/L	4		6020B	Total/NA
Magnesium	287		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	25.6		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	60.4		4.00	2.60	mg/L	4		6020B	Total/NA
Total Hardness	2380		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.202		0.100	0.0800	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.25		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	632		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	632		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3130		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
SM 2340B	Total Hardness	Water	Total/NA	mg/L	0.500	3.3

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-201

Lab Sample ID: 310-305512-1

Date Collected: 04/29/25 16:20

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.7		20.0	9.00	mg/L			05/08/25 22:55	20
Sulfate	129		20.0	8.40	mg/L			05/08/25 22:55	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:36	1
Arsenic	0.000689	J	0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:36	1
Calcium	86.9		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:36	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:36	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:36	1
Magnesium	54.9		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:36	1
Potassium	26.1		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:36	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:36	1
Sodium	26.0		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	443		2.06	0.618	mg/L			05/11/25 22:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.398	J	0.500	0.210	mg/L		05/13/25 13:01	05/13/25 19:58	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:15	1
Nitrate Nitrite as N (EPA 353.2)	0.249		0.100	0.0800	mg/L			05/09/25 08:12	1
Total Phosphorus as P (EPA 365.1)	0.0899	J	0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:40	1
Total Organic Carbon (SW846 9060A)	1.73		1.00	0.500	mg/L			05/08/25 16:28	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	288		5.00	2.50	mg/L			05/09/25 12:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	288		5.00	2.50	mg/L			05/09/25 12:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 12:18	1
Total Dissolved Solids (SM 2540C)	496		50.0	36.0	mg/L			05/05/25 16:57	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-202R

Lab Sample ID: 310-305512-2

Date Collected: 04/29/25 15:01

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		20.0	9.00	mg/L			05/08/25 23:09	20
Sulfate	101		20.0	8.40	mg/L			05/08/25 23:09	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 21:37	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 21:37	1
Calcium	74.0		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 21:37	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 21:37	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 21:37	1
Magnesium	54.8		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 21:37	1
Potassium	6.37		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 21:37	1
Selenium	<0.00500	F1	0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 21:37	1
Sodium	24.0		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 21:37	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	410		2.06	0.618	mg/L			05/11/25 21:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.311	J	0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:59	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:13	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 08:14	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:41	1
Total Organic Carbon (SW846 9060A)	1.41		1.00	0.500	mg/L			05/08/25 17:04	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	325		5.00	2.50	mg/L			05/09/25 12:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	325		5.00	2.50	mg/L			05/09/25 12:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 12:28	1
Total Dissolved Solids (SM 2540C)	460		50.0	36.0	mg/L			05/05/25 16:57	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-203R

Lab Sample ID: 310-305512-3

Date Collected: 04/29/25 14:26

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.47	J	5.00	2.25	mg/L			05/08/25 23:23	5
Sulfate	<5.00		5.00	2.10	mg/L			05/08/25 23:23	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:01	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:01	1
Calcium	68.7		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:01	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:01	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:01	1
Magnesium	33.0		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:01	1
Potassium	4.55		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:01	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:01	1
Sodium	16.5		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:01	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	307		2.06	0.618	mg/L			05/11/25 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.358	J	0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:13	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:15	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 08:16	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:23	05/07/25 15:20	1
Total Organic Carbon (SW846 9060A)	1.27		1.00	0.500	mg/L			05/08/25 17:40	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	338		5.00	2.50	mg/L			05/09/25 12:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	338		5.00	2.50	mg/L			05/09/25 12:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 12:38	1
Total Dissolved Solids (SM 2540C)	318		50.0	36.0	mg/L			05/05/25 16:57	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-204

Lab Sample ID: 310-305512-4

Date Collected: 04/29/25 15:38

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.1		20.0	9.00	mg/L			05/08/25 23:37	20
Sulfate	155		20.0	8.40	mg/L			05/08/25 23:37	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:15	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:15	1
Calcium	106		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:15	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:15	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:15	1
Magnesium	55.4		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:15	1
Potassium	10.9		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:15	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:15	1
Sodium	19.2		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:15	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	493		2.06	0.618	mg/L			05/11/25 22:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.335	J	0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:11	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:57	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 08:18	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:38	1
Total Organic Carbon (SW846 9060A)	1.48		1.00	0.500	mg/L			05/08/25 18:16	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	339		5.00	2.50	mg/L			05/09/25 12:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	339		5.00	2.50	mg/L			05/09/25 12:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 12:48	1
Total Dissolved Solids (SM 2540C)	572		50.0	36.0	mg/L			05/05/25 16:57	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-205

Lab Sample ID: 310-305512-5

Date Collected: 04/29/25 17:14

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.15	J	5.00	2.25	mg/L			05/08/25 23:51	5
Sulfate	15.6		5.00	2.10	mg/L			05/08/25 23:51	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:18	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:18	1
Calcium	73.7		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:18	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:18	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:18	1
Magnesium	36.3		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:18	1
Potassium	5.32		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:18	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:18	1
Sodium	17.3		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:18	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	334		2.06	0.618	mg/L			05/11/25 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.245	J	0.500	0.210	mg/L		05/13/25 13:01	05/13/25 20:12	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:59	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 08:58	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:36	1
Total Organic Carbon (SW846 9060A)	1.17		1.00	0.500	mg/L			05/08/25 20:04	1
Total Suspended Solids (USGS I-3765-85)	1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	343		5.00	2.50	mg/L			05/09/25 12:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	343		5.00	2.50	mg/L			05/09/25 12:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 12:58	1
Total Dissolved Solids (SM 2540C)	340		50.0	36.0	mg/L			05/05/25 17:05	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-206

Lab Sample ID: 310-305512-6

Date Collected: 04/29/25 18:00

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.28	J	5.00	2.25	mg/L			05/09/25 15:16	5
Sulfate	26.5		5.00	2.10	mg/L			05/09/25 15:16	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 19:09	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 19:09	1
Calcium	84.6		0.500	0.190	mg/L		05/07/25 09:00	05/08/25 19:09	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 19:09	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 19:09	1
Magnesium	37.1		0.500	0.150	mg/L		05/07/25 09:00	05/08/25 19:09	1
Potassium	7.20		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 19:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 19:09	1
Sodium	17.7		1.00	0.650	mg/L		05/07/25 09:00	05/10/25 21:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	364		2.06	0.618	mg/L			05/08/25 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.243	J	0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:14	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:57	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 09:00	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:33	1
Total Organic Carbon (SW846 9060A)	1.16		1.00	0.500	mg/L			05/08/25 20:40	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 11:18	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	359		5.00	2.50	mg/L			05/09/25 13:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	359		5.00	2.50	mg/L			05/09/25 13:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 13:15	1
Total Dissolved Solids (SM 2540C)	360		50.0	36.0	mg/L			05/02/25 20:25	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-1

Lab Sample ID: 310-305512-7

Date Collected: 04/30/25 10:35

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		20.0	9.00	mg/L			05/09/25 15:56	20
Sulfate	1630		20.0	8.40	mg/L			05/09/25 15:56	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.45		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 18:01	1
Arsenic	0.00127	J	0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 18:01	1
Calcium	440		0.500	0.190	mg/L		05/07/25 09:00	05/08/25 18:01	1
Chromium	0.0119		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 18:01	1
Lead	0.000869		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 18:01	1
Magnesium	241		2.00	0.600	mg/L		05/07/25 09:00	05/10/25 20:37	4
Potassium	48.5		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 18:01	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 18:01	1
Sodium	27.0		4.00	2.60	mg/L		05/07/25 09:00	05/10/25 20:37	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2090		8.24	2.47	mg/L			05/10/25 20:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:52	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:59	1
Nitrate Nitrite as N (EPA 353.2)	0.128		0.100	0.0800	mg/L			05/13/25 01:49	1
Total Phosphorus as P (EPA 365.1)	0.392		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:37	1
Total Organic Carbon (SW846 9060A)	1.45		1.00	0.500	mg/L			05/08/25 21:16	1
Total Suspended Solids (USGS I-3765-85)	217		15.0	10.5	mg/L			05/03/25 08:13	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	549		5.00	2.50	mg/L			05/09/25 13:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	549		5.00	2.50	mg/L			05/09/25 13:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 13:27	1
Total Dissolved Solids (SM 2540C)	2870		250	180	mg/L			05/06/25 18:00	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-2

Lab Sample ID: 310-305512-8

Date Collected: 04/30/25 10:56

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		20.0	9.00	mg/L			05/09/25 16:09	20
Sulfate	1370		20.0	8.40	mg/L			05/09/25 16:09	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:30	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:30	1
Calcium	436		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:30	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:30	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:30	1
Magnesium	235		2.00	0.600	mg/L		05/07/25 09:00	05/12/25 15:20	4
Potassium	67.7		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:30	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:30	1
Sodium	61.7		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:30	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2060		8.24	2.47	mg/L			05/12/25 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:50	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:59	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/13/25 01:51	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:36	1
Total Organic Carbon (SW846 9060A)	1.46		1.00	0.500	mg/L			05/08/25 21:52	1
Total Suspended Solids (USGS I-3765-85)	3.25		1.88	1.31	mg/L			05/03/25 08:13	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	591		5.00	2.50	mg/L			05/09/25 13:38	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	591		5.00	2.50	mg/L			05/09/25 13:38	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 13:38	1
Total Dissolved Solids (SM 2540C)	2770		250	180	mg/L			05/06/25 18:00	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-3

Lab Sample ID: 310-305512-9

Date Collected: 04/30/25 11:35

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	657		100	45.0	mg/L			05/09/25 16:22	100
Sulfate	2370		100	42.0	mg/L			05/09/25 16:22	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 19:00	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 19:00	1
Calcium	612		3.50	1.33	mg/L		05/07/25 09:00	05/10/25 21:00	7
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 19:00	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 19:00	1
Magnesium	359		3.50	1.05	mg/L		05/07/25 09:00	05/10/25 21:00	7
Potassium	458		3.50	1.19	mg/L		05/07/25 09:00	05/10/25 21:00	7
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 19:00	1
Sodium	114		7.00	4.55	mg/L		05/07/25 09:00	05/10/25 21:00	7

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	3010		14.4	4.32	mg/L			05/10/25 21:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.319	J	0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:50	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 18:01	1
Nitrate Nitrite as N (EPA 353.2)	0.526		0.100	0.0800	mg/L			05/13/25 01:53	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 08:48	05/07/25 14:02	1
Total Organic Carbon (SW846 9060A)	1.06		1.00	0.500	mg/L			05/08/25 23:04	1
Total Suspended Solids (USGS I-3765-85)	4.00		1.88	1.31	mg/L			05/03/25 08:13	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	628		5.00	2.50	mg/L			05/09/25 14:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	628		5.00	2.50	mg/L			05/09/25 14:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 14:03	1
Total Dissolved Solids (SM 2540C)	5190		250	180	mg/L			05/06/25 18:00	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: SW-1

Lab Sample ID: 310-305512-10

Date Collected: 04/29/25 18:15

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.6		20.0	9.00	mg/L			05/09/25 16:35	20
Sulfate	113		20.0	8.40	mg/L			05/09/25 16:35	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0322	J	0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:12	1
Arsenic	0.00132	J	0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:12	1
Calcium	66.5		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:12	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:12	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:12	1
Magnesium	20.2		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:12	1
Potassium	137		2.00	0.680	mg/L		05/07/25 09:00	05/12/25 15:10	4
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:12	1
Sodium	9.53		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:12	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	249		2.06	0.618	mg/L			05/11/25 22:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:47	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 18:00	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/13/25 01:55	1
Total Phosphorus as P (EPA 365.1)	0.0680	J	0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:38	1
Total Organic Carbon (SW846 9060A)	9.83		1.00	0.500	mg/L			05/08/25 23:41	1
Total Suspended Solids (USGS I-3765-85)	3.75		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	259		5.00	2.50	mg/L			05/09/25 14:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	259		5.00	2.50	mg/L			05/09/25 14:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 14:16	1
Total Dissolved Solids (SM 2540C)	550		50.0	36.0	mg/L			05/02/25 20:25	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: Phase 1,2,3 Sump Composite

Lab Sample ID: 310-305512-11

Date Collected: 04/30/25 12:05

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		100	45.0	mg/L			05/09/25 16:48	100
Sulfate	4700		100	42.0	mg/L			05/09/25 16:48	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.43		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 18:19	1
Arsenic	0.171		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 18:19	1
Calcium	42.5		0.500	0.190	mg/L		05/07/25 09:00	05/08/25 18:19	1
Chromium	0.207		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 18:19	1
Lead	0.0232		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 18:19	1
Magnesium	9.76		0.500	0.150	mg/L		05/07/25 09:00	05/08/25 18:19	1
Potassium	9070		75.0	25.5	mg/L		05/07/25 09:00	05/10/25 20:45	150
Selenium	0.276		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 18:19	1
Sodium	502		150	97.5	mg/L		05/07/25 09:00	05/10/25 20:45	150

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	146		2.06	0.618	mg/L			05/08/25 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	2.97		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:47	1
Total Kjeldahl Nitrogen (EPA 351.2)	5.39		1.00	0.620	mg/L		05/05/25 05:31	05/05/25 22:45	1
Nitrate Nitrite as N (EPA 353.2)	2.39		0.100	0.0800	mg/L			05/13/25 01:57	1
Total Phosphorus as P (EPA 365.1)	2.35		0.100	0.0680	mg/L		05/08/25 18:31	05/09/25 10:25	1
Total Organic Carbon (SW846 9060A)	42.6		40.0	20.0	mg/L			05/09/25 00:16	40
Total Suspended Solids (USGS I-3765-85)	406		30.0	21.0	mg/L			05/03/25 09:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	5360		100	50.0	mg/L			05/08/25 11:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<100		100	50.0	mg/L			05/08/25 11:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	2440		100	50.0	mg/L			05/08/25 11:28	1
Total Dissolved Solids (SM 2540C)	19900		2500	1800	mg/L			05/06/25 18:00	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-D

Lab Sample ID: 310-305512-12

Date Collected: 04/29/25 18:00

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.22	J	5.00	2.25	mg/L			05/12/25 10:33	5
Sulfate	26.5		20.0	8.40	mg/L			05/09/25 17:27	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 18:48	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 18:48	1
Calcium	77.1		0.500	0.190	mg/L		05/07/25 09:00	05/08/25 18:48	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 18:48	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 18:48	1
Magnesium	35.4		0.500	0.150	mg/L		05/07/25 09:00	05/08/25 18:48	1
Potassium	6.08		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 18:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 18:48	1
Sodium	17.1		1.00	0.650	mg/L		05/07/25 09:00	05/10/25 20:54	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	338		2.06	0.618	mg/L			05/08/25 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:52	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:16	1
Nitrate Nitrite as N (EPA 353.2)	0.111		0.100	0.0800	mg/L			05/13/25 01:58	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:23	05/07/25 14:57	1
Total Organic Carbon (SW846 9060A)	1.16		1.00	0.500	mg/L			05/09/25 00:52	1
Total Suspended Solids (USGS I-3765-85)	2.25		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	359		5.00	2.50	mg/L			05/09/25 14:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	359		5.00	2.50	mg/L			05/09/25 14:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 14:26	1
Total Dissolved Solids (SM 2540C)	364		50.0	36.0	mg/L			05/02/25 20:25	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-101R-No Purge

Lab Sample ID: 310-305512-13

Date Collected: 04/29/25 13:35

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.02	J	5.00	2.25	mg/L			05/09/25 17:40	5
Sulfate	250		5.00	2.10	mg/L			05/09/25 17:40	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.30		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:09	1
Arsenic	0.00622		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:09	1
Calcium	147		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:09	1
Chromium	0.00600		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:09	1
Lead	0.00297		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:09	1
Magnesium	84.9		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:09	1
Potassium	9.14		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:09	1
Sodium	45.0		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:09	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	717		2.06	0.618	mg/L			05/11/25 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:11	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:15	1
Nitrate Nitrite as N (EPA 353.2)	0.101		0.100	0.0800	mg/L			05/09/25 08:19	1
Total Phosphorus as P (EPA 365.1)	0.175		0.100	0.0680	mg/L		05/07/25 09:23	05/07/25 15:20	1
Total Organic Carbon (SW846 9060A)	1.05		1.00	0.500	mg/L			05/09/25 01:28	1
Total Suspended Solids (USGS I-3765-85)	97.0		3.75	2.63	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	421		5.00	2.50	mg/L			05/09/25 14:37	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	421		5.00	2.50	mg/L			05/09/25 14:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 14:37	1
Total Dissolved Solids (SM 2540C)	834		50.0	36.0	mg/L			05/02/25 20:25	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-102R-No Purge

Lab Sample ID: 310-305512-14

Date Collected: 04/29/25 13:00

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.71		5.00	2.25	mg/L			05/09/25 17:53	5
Sulfate	1520		20.0	8.40	mg/L			05/12/25 10:45	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 21:58	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 21:58	1
Calcium	445		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 21:58	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 21:58	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 21:58	1
Magnesium	256		2.00	0.600	mg/L		05/07/25 09:00	05/12/25 15:08	4
Potassium	12.6		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 21:58	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 21:58	1
Sodium	50.3		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 21:58	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2170		8.24	2.47	mg/L			05/12/25 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:16	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:17	1
Nitrate Nitrite as N (EPA 353.2)	0.128		0.100	0.0800	mg/L			05/09/25 09:02	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:23	05/07/25 15:20	1
Total Organic Carbon (SW846 9060A)	1.36		1.00	0.500	mg/L			05/09/25 03:16	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	658		5.00	2.50	mg/L			05/05/25 19:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	658		5.00	2.50	mg/L			05/05/25 19:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/05/25 19:45	1
Total Dissolved Solids (SM 2540C)	2750		50.0	36.0	mg/L			05/02/25 20:25	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-103R-No Purge

Lab Sample ID: 310-305512-15

Date Collected: 04/29/25 12:26

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		10.0	4.50	mg/L			05/09/25 18:06	10
Sulfate	1750		100	42.0	mg/L			05/09/25 18:20	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 18:22	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 18:22	1
Calcium	462		2.00	0.760	mg/L		05/07/25 09:00	05/10/25 20:48	4
Chromium	<0.0200		0.0200	0.00720	mg/L		05/07/25 09:00	05/10/25 20:48	4
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 18:22	1
Magnesium	281		2.00	0.600	mg/L		05/07/25 09:00	05/10/25 20:48	4
Potassium	29.2		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 18:22	1
Selenium	<0.0200		0.0200	0.00560	mg/L		05/07/25 09:00	05/10/25 20:48	4
Sodium	57.2		4.00	2.60	mg/L		05/07/25 09:00	05/10/25 20:48	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2310		8.24	2.47	mg/L			05/10/25 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 18:01	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:55	1
Nitrate Nitrite as N (EPA 353.2)	0.268		0.100	0.0800	mg/L			05/09/25 09:04	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:34	1
Total Organic Carbon (SW846 9060A)	1.35		1.00	0.500	mg/L			05/09/25 03:52	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/02/25 14:08	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	637		5.00	2.50	mg/L			05/09/25 14:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	637		5.00	2.50	mg/L			05/09/25 14:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 14:48	1
Total Dissolved Solids (SM 2540C)	3060		50.0	36.0	mg/L			05/02/25 20:31	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-101R-Recharge

Lab Sample ID: 310-305512-16

Date Collected: 04/30/25 09:56

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.20	J	5.00	2.25	mg/L			05/09/25 18:33	5
Sulfate	118		5.00	2.10	mg/L			05/09/25 18:33	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.04		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 22:24	1
Arsenic	0.00615		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 22:24	1
Calcium	94.8		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 22:24	1
Chromium	0.00180	J	0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 22:24	1
Lead	0.000624		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 22:24	1
Magnesium	52.9		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 22:24	1
Potassium	6.54		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 22:24	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 22:24	1
Sodium	28.3		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 22:24	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	455		2.06	0.618	mg/L			05/11/25 22:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:14	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:56	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			05/09/25 09:05	1
Total Phosphorus as P (EPA 365.1)	0.108		0.100	0.0680	mg/L		05/07/25 08:48	05/07/25 14:01	1
Total Organic Carbon (SW846 9060A)	1.14		1.00	0.500	mg/L			05/09/25 04:29	1
Total Suspended Solids (USGS I-3765-85)	38.1		1.88	1.31	mg/L			05/03/25 08:13	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	371		5.00	2.50	mg/L			05/09/25 15:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	371		5.00	2.50	mg/L			05/09/25 15:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 15:01	1
Total Dissolved Solids (SM 2540C)	522		50.0	36.0	mg/L			05/05/25 17:05	1

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Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-103R-Recharge

Lab Sample ID: 310-305512-17

Date Collected: 04/30/25 09:15

Matrix: Water

Date Received: 05/01/25 16:05

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		5.00	2.25	mg/L			05/09/25 18:46	5
Sulfate	1760		20.0	8.40	mg/L			05/12/25 10:58	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0399	J	0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 18:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 18:25	1
Calcium	478		2.00	0.760	mg/L		05/07/25 09:00	05/10/25 20:51	4
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 18:25	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 18:25	1
Magnesium	287		2.00	0.600	mg/L		05/07/25 09:00	05/10/25 20:51	4
Potassium	25.6		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 18:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 18:25	1
Sodium	60.4		4.00	2.60	mg/L		05/07/25 09:00	05/10/25 20:51	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2380		8.24	2.47	mg/L			05/10/25 20:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:57	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:57	1
Nitrate Nitrite as N (EPA 353.2)	0.202		0.100	0.0800	mg/L			05/09/25 09:07	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:35	1
Total Organic Carbon (SW846 9060A)	1.25		1.00	0.500	mg/L			05/09/25 05:05	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			05/03/25 09:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	632		5.00	2.50	mg/L			05/09/25 15:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	632		5.00	2.50	mg/L			05/09/25 15:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			05/09/25 15:18	1
Total Dissolved Solids (SM 2540C)	3130		50.0	36.0	mg/L			05/05/25 17:05	1

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Definitions/Glossary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-454391/3

Matrix: Water

Analysis Batch: 454391

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/08/25 17:32	1
Sulfate	<1.00		1.00	0.420	mg/L			05/08/25 17:32	1

Lab Sample ID: LCS 310-454391/4

Matrix: Water

Analysis Batch: 454391

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.846		mg/L		98	90 - 110
Sulfate	10.0	10.03		mg/L		100	90 - 110

Lab Sample ID: MB 310-454447/3

Matrix: Water

Analysis Batch: 454447

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			05/09/25 14:50	1
Sulfate	<1.00		1.00	0.420	mg/L			05/09/25 14:50	1

Lab Sample ID: LCS 310-454447/4

Matrix: Water

Analysis Batch: 454447

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.785		mg/L		98	90 - 110
Sulfate	10.0	9.969		mg/L		100	90 - 110

Lab Sample ID: 310-305512-6 MS

Matrix: Water

Analysis Batch: 454447

Client Sample ID: MW-206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.28	J	25.0	26.99		mg/L		91	80 - 120
Sulfate	26.5		25.0	50.30		mg/L		95	80 - 120

Lab Sample ID: 310-305512-6 MSD

Matrix: Water

Analysis Batch: 454447

Client Sample ID: MW-206

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.28	J	25.0	26.63		mg/L		89	80 - 120	1	15
Sulfate	26.5		25.0	50.53		mg/L		96	80 - 120	0	15

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-453871/1-A

Matrix: Water

Analysis Batch: 454259

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/08/25 17:56	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/08/25 17:56	1
Calcium	<0.500		0.500	0.190	mg/L		05/07/25 09:00	05/08/25 17:56	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/08/25 17:56	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/08/25 17:56	1
Magnesium	<0.500		0.500	0.150	mg/L		05/07/25 09:00	05/08/25 17:56	1
Potassium	<0.500		0.500	0.170	mg/L		05/07/25 09:00	05/08/25 17:56	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/08/25 17:56	1

Lab Sample ID: MB 310-453871/1-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<1.00		1.00	0.650	mg/L		05/07/25 09:00	05/10/25 20:25	1

Lab Sample ID: LCS 310-453871/2-A

Matrix: Water

Analysis Batch: 454259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.2108		mg/L		105	80 - 120
Arsenic	0.200	0.1968		mg/L		98	80 - 120
Calcium	2.00	1.881		mg/L		94	80 - 120
Chromium	0.100	0.1017		mg/L		102	80 - 120
Lead	0.200	0.2043		mg/L		102	80 - 120
Magnesium	2.00	1.933		mg/L		97	80 - 120
Potassium	2.00	1.900		mg/L		95	80 - 120
Selenium	0.400	0.3816		mg/L		95	80 - 120

Lab Sample ID: LCS 310-453871/2-A

Matrix: Water

Analysis Batch: 454361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	2.00	1.922		mg/L		96	80 - 120

Lab Sample ID: 310-305512-7 MS

Matrix: Water

Analysis Batch: 454259

Client Sample ID: LDR-1

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	2.45		0.200	3.578	4	mg/L		565	75 - 125
Arsenic	0.00127	J	0.200	0.2058		mg/L		102	75 - 125
Calcium	440		2.00	430.5	4	mg/L		-495	75 - 125
Chromium	0.0119		0.100	0.1085		mg/L		97	75 - 125
Lead	0.000869		0.200	0.1965		mg/L		98	75 - 125
Potassium	48.5		2.00	48.85	4	mg/L		16	75 - 125
Selenium	<0.00500		0.400	0.3893		mg/L		97	75 - 125

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

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

Lab Sample ID: 310-305512-7 MS

Matrix: Water

Analysis Batch: 454361

Client Sample ID: LDR-1

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	241		2.00	237.5	4	mg/L		-198	75 - 125
Sodium	27.0		2.00	28.85	4	mg/L		93	75 - 125

Lab Sample ID: 310-305512-7 MSD

Matrix: Water

Analysis Batch: 454259

Client Sample ID: LDR-1

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	2.45		0.200	3.645	4	mg/L		599	75 - 125	2	20
Arsenic	0.00127	J	0.200	0.2079		mg/L		103	75 - 125	1	20
Calcium	440		2.00	436.7	4	mg/L		-187	75 - 125	1	20
Chromium	0.0119		0.100	0.1100		mg/L		98	75 - 125	1	20
Lead	0.000869		0.200	0.1990		mg/L		99	75 - 125	1	20
Potassium	48.5		2.00	49.10	4	mg/L		28	75 - 125	1	20
Selenium	<0.00500		0.400	0.3928		mg/L		98	75 - 125	1	20

Lab Sample ID: 310-305512-7 MSD

Matrix: Water

Analysis Batch: 454361

Client Sample ID: LDR-1

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	241		2.00	240.9	4	mg/L		-26	75 - 125	1	20
Sodium	27.0		2.00	28.93	4	mg/L		97	75 - 125	0	20

Lab Sample ID: 310-305512-12 DU

Matrix: Water

Analysis Batch: 454259

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	<0.0500		<0.0500		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Calcium	77.1		79.98		mg/L		4	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Magnesium	35.4		36.54		mg/L		3	20
Potassium	6.08		6.260		mg/L		3	20
Selenium	<0.00500		<0.00500		mg/L		NC	20

Lab Sample ID: 310-305512-12 DU

Matrix: Water

Analysis Batch: 454361

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 453871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sodium	17.1		18.19		mg/L		6	20

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

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

Lab Sample ID: MB 310-453874/1-A

Matrix: Water

Analysis Batch: 454379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 453874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		05/07/25 09:00	05/11/25 21:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/07/25 09:00	05/11/25 21:25	1
Calcium	<0.500		0.500	0.190	mg/L		05/07/25 09:00	05/11/25 21:25	1
Chromium	<0.00500		0.00500	0.00180	mg/L		05/07/25 09:00	05/11/25 21:25	1
Lead	<0.000500		0.000500	0.000330	mg/L		05/07/25 09:00	05/11/25 21:25	1
Magnesium	<0.500		0.500	0.150	mg/L		05/07/25 09:00	05/11/25 21:25	1
Potassium	<0.500		0.500	0.170	mg/L		05/07/25 09:00	05/11/25 21:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/07/25 09:00	05/11/25 21:25	1
Sodium	<1.00		1.00	0.650	mg/L		05/07/25 09:00	05/11/25 21:25	1

Lab Sample ID: LCS 310-453874/2-A

Matrix: Water

Analysis Batch: 454379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.1928		mg/L		96	80 - 120
Arsenic	0.200	0.1930		mg/L		96	80 - 120
Calcium	2.00	1.837		mg/L		92	80 - 120
Chromium	0.100	0.09684		mg/L		97	80 - 120
Lead	0.200	0.1993		mg/L		100	80 - 120
Magnesium	2.00	1.875		mg/L		94	80 - 120
Potassium	2.00	1.838		mg/L		92	80 - 120
Selenium	0.400	0.3596		mg/L		90	80 - 120
Sodium	2.00	2.093		mg/L		105	80 - 120

Lab Sample ID: 310-305512-2 MS

Matrix: Water

Analysis Batch: 454379

Client Sample ID: MW-202R

Prep Type: Total/NA

Prep Batch: 453874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<0.0500		0.200	0.2014		mg/L		101	75 - 125
Arsenic	<0.00200		0.200	0.2041		mg/L		102	75 - 125
Calcium	74.0		2.00	74.68	4	mg/L		32	75 - 125
Chromium	<0.00500		0.100	0.09869		mg/L		99	75 - 125
Lead	<0.000500		0.200	0.2012		mg/L		101	75 - 125
Magnesium	54.8		2.00	55.78	4	mg/L		50	75 - 125
Potassium	6.37		2.00	8.806		mg/L		122	75 - 125
Selenium	<0.00500	F1	0.400	0.2729	F1	mg/L		68	75 - 125
Sodium	24.0		2.00	25.58	4	mg/L		78	75 - 125

Lab Sample ID: 310-305512-2 MSD

Matrix: Water

Analysis Batch: 454379

Client Sample ID: MW-202R

Prep Type: Total/NA

Prep Batch: 453874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<0.0500		0.200	0.2078		mg/L		104	75 - 125	3	20
Arsenic	<0.00200		0.200	0.2095		mg/L		105	75 - 125	3	20
Calcium	74.0		2.00	74.36	4	mg/L		16	75 - 125	0	20
Chromium	<0.00500		0.100	0.1015		mg/L		101	75 - 125	3	20

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

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

Lab Sample ID: 310-305512-2 MSD

Matrix: Water

Analysis Batch: 454379

Client Sample ID: MW-202R

Prep Type: Total/NA

Prep Batch: 453874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	<0.000500		0.200	0.2054		mg/L		103	75 - 125	2	20
Magnesium	54.8		2.00	55.94	4	mg/L		58	75 - 125	0	20
Potassium	6.37		2.00	8.755		mg/L		119	75 - 125	1	20
Selenium	<0.00500	F1	0.400	0.2857	F1	mg/L		71	75 - 125	5	20
Sodium	24.0		2.00	25.52	4	mg/L		74	75 - 125	0	20

Lab Sample ID: 310-305512-16 DU

Matrix: Water

Analysis Batch: 454379

Client Sample ID: MW-101R-Recharge

Prep Type: Total/NA

Prep Batch: 453874

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	1.04		1.029		mg/L		0.8	20
Arsenic	0.00615		0.006141		mg/L		0.2	20
Calcium	94.8		95.76		mg/L		1	20
Chromium	0.00180	J	<0.00500		mg/L		NC	20
Lead	0.000624		0.0006140		mg/L		2	20
Magnesium	52.9		52.30		mg/L		1	20
Potassium	6.54		6.670		mg/L		2	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Sodium	28.3		28.81		mg/L		2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-454483/1-A

Matrix: Water

Analysis Batch: 454581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454483

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.500		0.500	0.210	mg/L		05/13/25 08:55	05/13/25 17:40	1

Lab Sample ID: LCS 310-454483/2-A

Matrix: Water

Analysis Batch: 454581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	4.00	3.837		mg/L		96	90 - 110

Lab Sample ID: MB 310-454484/1-A

Matrix: Water

Analysis Batch: 454581

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.500		0.500	0.210	mg/L		05/13/25 09:01	05/13/25 18:02	1

Lab Sample ID: LCS 310-454484/2-A

Matrix: Water

Analysis Batch: 454581

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	4.00	3.703		mg/L		93	90 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 310-454532/1-A
Matrix: Water
Analysis Batch: 454581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.500		0.500	0.210	mg/L		05/13/25 13:01	05/13/25 18:25	1

Lab Sample ID: LCS 310-454532/2-A
Matrix: Water
Analysis Batch: 454581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	4.00	3.907		mg/L		98	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-453636/1-A
Matrix: Water
Analysis Batch: 453773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		05/05/25 05:08	05/05/25 19:06	1

Lab Sample ID: LCS 310-453636/25-A
Matrix: Water
Analysis Batch: 453773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.925		mg/L		98	90 - 110

Lab Sample ID: MB 310-453637/1-A
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		05/05/25 05:10	05/05/25 17:51	1

Lab Sample ID: LCS 310-453637/2-A
Matrix: Water
Analysis Batch: 453771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	4.308		mg/L		108	90 - 110

Lab Sample ID: MB 310-453638/1-A
Matrix: Water
Analysis Batch: 453773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		05/05/25 05:31	05/05/25 22:37	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 310-453638/25-A

Matrix: Water

Analysis Batch: 453773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 453638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.966		mg/L		99	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 310-454272/16

Matrix: Water

Analysis Batch: 454272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			05/09/25 07:30	1

Lab Sample ID: MB 310-454272/44

Matrix: Water

Analysis Batch: 454272

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			05/09/25 08:21	1

Lab Sample ID: LCS 310-454272/17

Matrix: Water

Analysis Batch: 454272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.07	2.210		mg/L		107	90 - 110

Lab Sample ID: LCS 310-454272/45

Matrix: Water

Analysis Batch: 454272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.07	2.248		mg/L		109	90 - 110

Lab Sample ID: MB 310-454531/16

Matrix: Water

Analysis Batch: 454531

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			05/12/25 23:59	1

Lab Sample ID: LCS 310-454531/17

Matrix: Water

Analysis Batch: 454531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.07	2.150		mg/L		104	90 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 310-453946/1-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		05/07/25 08:48	05/07/25 13:52	1

Lab Sample ID: LCS 310-453946/2-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.00	1.002		mg/L		100	90 - 110

Lab Sample ID: MB 310-453949/1-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		05/07/25 09:08	05/07/25 14:30	1

Lab Sample ID: LCS 310-453949/2-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.00	0.9547		mg/L		95	90 - 110

Lab Sample ID: MB 310-453951/1-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 453951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		05/07/25 09:23	05/07/25 14:42	1

Lab Sample ID: LCS 310-453951/2-A
Matrix: Water
Analysis Batch: 454025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 453951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.00	0.9759		mg/L		97	90 - 110

Lab Sample ID: MB 310-454194/1-A
Matrix: Water
Analysis Batch: 454279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 454194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		05/08/25 18:31	05/09/25 10:16	1

Lab Sample ID: LCS 310-454194/2-A
Matrix: Water
Analysis Batch: 454279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 454194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	1.00	1.003		mg/L		100	90 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 310-454229/11

Matrix: Water

Analysis Batch: 454229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			05/08/25 12:52	1

Lab Sample ID: LCS 310-454229/12

Matrix: Water

Analysis Batch: 454229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.21		mg/L		102	85 - 115

Lab Sample ID: 310-305512-8 MS

Matrix: Water

Analysis Batch: 454229

Client Sample ID: LDR-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.46		4.99	6.174		mg/L		94	85 - 115

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-453514/1

Matrix: Water

Analysis Batch: 453514

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/02/25 11:18	1

Lab Sample ID: LCS 310-453514/2

Matrix: Water

Analysis Batch: 453514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	99.00		mg/L		99	81 - 116

Lab Sample ID: MB 310-453554/1

Matrix: Water

Analysis Batch: 453554

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/02/25 14:08	1

Lab Sample ID: LCS 310-453554/2

Matrix: Water

Analysis Batch: 453554

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	96.00		mg/L		96	81 - 116

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: MB 310-453616/1

Matrix: Water

Analysis Batch: 453616

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/03/25 08:13	1

Lab Sample ID: LCS 310-453616/2

Matrix: Water

Analysis Batch: 453616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	81 - 116

Lab Sample ID: MB 310-453619/1

Matrix: Water

Analysis Batch: 453619

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			05/03/25 09:16	1

Lab Sample ID: LCS 310-453619/2

Matrix: Water

Analysis Batch: 453619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	94.00		mg/L		94	81 - 116

Lab Sample ID: 310-305512-11 DU

Matrix: Water

Analysis Batch: 453619

Client Sample ID: Phase 1,2,3 Sump Composite

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	406		420.0		mg/L		3	35

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-453772/25

Matrix: Water

Analysis Batch: 453772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	1008		mg/L		101	86 - 111

Lab Sample ID: LCS 310-454129/1

Matrix: Water

Analysis Batch: 454129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	1053		mg/L		105	86 - 111

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 310-454344/2

Matrix: Water

Analysis Batch: 454344

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	1000	953.4		mg/L		95	86 - 111

Lab Sample ID: 310-305512-8 DU

Matrix: Water

Analysis Batch: 454344

Client Sample ID: LDR-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	591		588.5		mg/L		0.5	16
Bicarbonate Alkalinity as CaCO3	591		588.5		mg/L		0.5	
Carbonate Alkalinity as CaCO3	<5.00		<5.00		mg/L		NC	

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

Lab Sample ID: MB 310-453603/1

Matrix: Water

Analysis Batch: 453603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/02/25 20:25	1

Lab Sample ID: LCS 310-453603/2

Matrix: Water

Analysis Batch: 453603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	966.0		mg/L		97	88 - 110

Lab Sample ID: MB 310-453604/1

Matrix: Water

Analysis Batch: 453604

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/02/25 20:31	1

Lab Sample ID: LCS 310-453604/2

Matrix: Water

Analysis Batch: 453604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	960.0		mg/L		96	88 - 110

Lab Sample ID: MB 310-453767/1

Matrix: Water

Analysis Batch: 453767

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/05/25 16:57	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

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

Lab Sample ID: LCS 310-453767/2

Matrix: Water

Analysis Batch: 453767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	88 - 110

Lab Sample ID: MB 310-453768/1

Matrix: Water

Analysis Batch: 453768

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/05/25 17:05	1

Lab Sample ID: LCS 310-453768/2

Matrix: Water

Analysis Batch: 453768

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	966.0		mg/L		97	88 - 110

Lab Sample ID: MB 310-453901/1

Matrix: Water

Analysis Batch: 453901

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			05/06/25 18:00	1

Lab Sample ID: LCS 310-453901/2

Matrix: Water

Analysis Batch: 453901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	988.0		mg/L		99	88 - 110

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

HPLC/IC

Analysis Batch: 454391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	9056A	
310-305512-2	MW-202R	Total/NA	Water	9056A	
310-305512-3	MW-203R	Total/NA	Water	9056A	
310-305512-4	MW-204	Total/NA	Water	9056A	
310-305512-5	MW-205	Total/NA	Water	9056A	
MB 310-454391/3	Method Blank	Total/NA	Water	9056A	
LCS 310-454391/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 454447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	9056A	
310-305512-7	LDR-1	Total/NA	Water	9056A	
310-305512-8	LDR-2	Total/NA	Water	9056A	
310-305512-9	LDR-3	Total/NA	Water	9056A	
310-305512-10	SW-1	Total/NA	Water	9056A	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	9056A	
310-305512-12	MW-D	Total/NA	Water	9056A	
310-305512-12	MW-D	Total/NA	Water	9056A	
310-305512-13	MW-101R-No Purge	Total/NA	Water	9056A	
310-305512-14	MW-102R-No Purge	Total/NA	Water	9056A	
310-305512-14	MW-102R-No Purge	Total/NA	Water	9056A	
310-305512-15	MW-103R-No Purge	Total/NA	Water	9056A	
310-305512-15	MW-103R-No Purge	Total/NA	Water	9056A	
310-305512-16	MW-101R-Recharge	Total/NA	Water	9056A	
310-305512-17	MW-103R-Recharge	Total/NA	Water	9056A	
310-305512-17	MW-103R-Recharge	Total/NA	Water	9056A	
MB 310-454447/3	Method Blank	Total/NA	Water	9056A	
LCS 310-454447/4	Lab Control Sample	Total/NA	Water	9056A	
310-305512-6 MS	MW-206	Total/NA	Water	9056A	
310-305512-6 MSD	MW-206	Total/NA	Water	9056A	

Metals

Analysis Batch: 453758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	SM 2340B	
310-305512-2	MW-202R	Total/NA	Water	SM 2340B	
310-305512-3	MW-203R	Total/NA	Water	SM 2340B	
310-305512-4	MW-204	Total/NA	Water	SM 2340B	
310-305512-5	MW-205	Total/NA	Water	SM 2340B	
310-305512-6	MW-206	Total/NA	Water	SM 2340B	
310-305512-7	LDR-1	Total/NA	Water	SM 2340B	
310-305512-8	LDR-2	Total/NA	Water	SM 2340B	
310-305512-9	LDR-3	Total/NA	Water	SM 2340B	
310-305512-10	SW-1	Total/NA	Water	SM 2340B	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	SM 2340B	
310-305512-12	MW-D	Total/NA	Water	SM 2340B	
310-305512-13	MW-101R-No Purge	Total/NA	Water	SM 2340B	
310-305512-14	MW-102R-No Purge	Total/NA	Water	SM 2340B	
310-305512-15	MW-103R-No Purge	Total/NA	Water	SM 2340B	
310-305512-16	MW-101R-Recharge	Total/NA	Water	SM 2340B	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Metals (Continued)

Analysis Batch: 453758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-17	MW-103R-Recharge	Total/NA	Water	SM 2340B	

Prep Batch: 453871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	3005A	
310-305512-7	LDR-1	Total/NA	Water	3005A	
310-305512-9	LDR-3	Total/NA	Water	3005A	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	3005A	
310-305512-12	MW-D	Total/NA	Water	3005A	
310-305512-15	MW-103R-No Purge	Total/NA	Water	3005A	
310-305512-17	MW-103R-Recharge	Total/NA	Water	3005A	
MB 310-453871/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453871/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-305512-7 MS	LDR-1	Total/NA	Water	3005A	
310-305512-7 MSD	LDR-1	Total/NA	Water	3005A	
310-305512-12 DU	MW-D	Total/NA	Water	3005A	

Prep Batch: 453874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	3005A	
310-305512-2	MW-202R	Total/NA	Water	3005A	
310-305512-3	MW-203R	Total/NA	Water	3005A	
310-305512-4	MW-204	Total/NA	Water	3005A	
310-305512-5	MW-205	Total/NA	Water	3005A	
310-305512-8	LDR-2	Total/NA	Water	3005A	
310-305512-10	SW-1	Total/NA	Water	3005A	
310-305512-13	MW-101R-No Purge	Total/NA	Water	3005A	
310-305512-14	MW-102R-No Purge	Total/NA	Water	3005A	
310-305512-16	MW-101R-Recharge	Total/NA	Water	3005A	
MB 310-453874/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-453874/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-305512-2 MS	MW-202R	Total/NA	Water	3005A	
310-305512-2 MSD	MW-202R	Total/NA	Water	3005A	
310-305512-16 DU	MW-101R-Recharge	Total/NA	Water	3005A	

Analysis Batch: 454259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	6020B	453871
310-305512-7	LDR-1	Total/NA	Water	6020B	453871
310-305512-9	LDR-3	Total/NA	Water	6020B	453871
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	6020B	453871
310-305512-12	MW-D	Total/NA	Water	6020B	453871
310-305512-15	MW-103R-No Purge	Total/NA	Water	6020B	453871
310-305512-17	MW-103R-Recharge	Total/NA	Water	6020B	453871
MB 310-453871/1-A	Method Blank	Total/NA	Water	6020B	453871
LCS 310-453871/2-A	Lab Control Sample	Total/NA	Water	6020B	453871
310-305512-7 MS	LDR-1	Total/NA	Water	6020B	453871
310-305512-7 MSD	LDR-1	Total/NA	Water	6020B	453871
310-305512-12 DU	MW-D	Total/NA	Water	6020B	453871

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Metals

Analysis Batch: 454361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	6020B	453871
310-305512-7	LDR-1	Total/NA	Water	6020B	453871
310-305512-9	LDR-3	Total/NA	Water	6020B	453871
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	6020B	453871
310-305512-12	MW-D	Total/NA	Water	6020B	453871
310-305512-15	MW-103R-No Purge	Total/NA	Water	6020B	453871
310-305512-17	MW-103R-Recharge	Total/NA	Water	6020B	453871
MB 310-453871/1-A	Method Blank	Total/NA	Water	6020B	453871
LCS 310-453871/2-A	Lab Control Sample	Total/NA	Water	6020B	453871
310-305512-7 MS	LDR-1	Total/NA	Water	6020B	453871
310-305512-7 MSD	LDR-1	Total/NA	Water	6020B	453871
310-305512-12 DU	MW-D	Total/NA	Water	6020B	453871

Analysis Batch: 454379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	6020B	453874
310-305512-2	MW-202R	Total/NA	Water	6020B	453874
310-305512-3	MW-203R	Total/NA	Water	6020B	453874
310-305512-4	MW-204	Total/NA	Water	6020B	453874
310-305512-5	MW-205	Total/NA	Water	6020B	453874
310-305512-8	LDR-2	Total/NA	Water	6020B	453874
310-305512-10	SW-1	Total/NA	Water	6020B	453874
310-305512-13	MW-101R-No Purge	Total/NA	Water	6020B	453874
310-305512-14	MW-102R-No Purge	Total/NA	Water	6020B	453874
310-305512-16	MW-101R-Recharge	Total/NA	Water	6020B	453874
MB 310-453874/1-A	Method Blank	Total/NA	Water	6020B	453874
LCS 310-453874/2-A	Lab Control Sample	Total/NA	Water	6020B	453874
310-305512-2 MS	MW-202R	Total/NA	Water	6020B	453874
310-305512-2 MSD	MW-202R	Total/NA	Water	6020B	453874
310-305512-16 DU	MW-101R-Recharge	Total/NA	Water	6020B	453874

Analysis Batch: 454477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-8	LDR-2	Total/NA	Water	6020B	453874
310-305512-10	SW-1	Total/NA	Water	6020B	453874
310-305512-14	MW-102R-No Purge	Total/NA	Water	6020B	453874

General Chemistry

Analysis Batch: 453514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	I-3765-85	
MB 310-453514/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-453514/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 453554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	I-3765-85	
310-305512-2	MW-202R	Total/NA	Water	I-3765-85	
310-305512-3	MW-203R	Total/NA	Water	I-3765-85	
310-305512-4	MW-204	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Analysis Batch: 453554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-5	MW-205	Total/NA	Water	I-3765-85	
310-305512-10	SW-1	Total/NA	Water	I-3765-85	
310-305512-12	MW-D	Total/NA	Water	I-3765-85	
310-305512-13	MW-101R-No Purge	Total/NA	Water	I-3765-85	
310-305512-14	MW-102R-No Purge	Total/NA	Water	I-3765-85	
310-305512-15	MW-103R-No Purge	Total/NA	Water	I-3765-85	
MB 310-453554/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-453554/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 453603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	SM 2540C	
310-305512-10	SW-1	Total/NA	Water	SM 2540C	
310-305512-12	MW-D	Total/NA	Water	SM 2540C	
310-305512-13	MW-101R-No Purge	Total/NA	Water	SM 2540C	
310-305512-14	MW-102R-No Purge	Total/NA	Water	SM 2540C	
MB 310-453603/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453603/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 453604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-15	MW-103R-No Purge	Total/NA	Water	SM 2540C	
MB 310-453604/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453604/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 453616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-7	LDR-1	Total/NA	Water	I-3765-85	
310-305512-8	LDR-2	Total/NA	Water	I-3765-85	
310-305512-9	LDR-3	Total/NA	Water	I-3765-85	
310-305512-16	MW-101R-Recharge	Total/NA	Water	I-3765-85	
MB 310-453616/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-453616/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 453619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	I-3765-85	
310-305512-17	MW-103R-Recharge	Total/NA	Water	I-3765-85	
MB 310-453619/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-453619/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-305512-11 DU	Phase 1,2,3 Sump Composite	Total/NA	Water	I-3765-85	

Prep Batch: 453636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	351.2	
310-305512-2	MW-202R	Total/NA	Water	351.2	
310-305512-3	MW-203R	Total/NA	Water	351.2	
310-305512-12	MW-D	Total/NA	Water	351.2	
310-305512-13	MW-101R-No Purge	Total/NA	Water	351.2	
310-305512-14	MW-102R-No Purge	Total/NA	Water	351.2	
MB 310-453636/1-A	Method Blank	Total/NA	Water	351.2	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Prep Batch: 453636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-453636/25-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 453637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-4	MW-204	Total/NA	Water	351.2	
310-305512-5	MW-205	Total/NA	Water	351.2	
310-305512-6	MW-206	Total/NA	Water	351.2	
310-305512-7	LDR-1	Total/NA	Water	351.2	
310-305512-8	LDR-2	Total/NA	Water	351.2	
310-305512-9	LDR-3	Total/NA	Water	351.2	
310-305512-10	SW-1	Total/NA	Water	351.2	
310-305512-15	MW-103R-No Purge	Total/NA	Water	351.2	
310-305512-16	MW-101R-Recharge	Total/NA	Water	351.2	
310-305512-17	MW-103R-Recharge	Total/NA	Water	351.2	
MB 310-453637/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-453637/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 453638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	351.2	
MB 310-453638/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-453638/25-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 453767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	SM 2540C	
310-305512-2	MW-202R	Total/NA	Water	SM 2540C	
310-305512-3	MW-203R	Total/NA	Water	SM 2540C	
310-305512-4	MW-204	Total/NA	Water	SM 2540C	
MB 310-453767/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453767/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 453768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-5	MW-205	Total/NA	Water	SM 2540C	
310-305512-16	MW-101R-Recharge	Total/NA	Water	SM 2540C	
310-305512-17	MW-103R-Recharge	Total/NA	Water	SM 2540C	
MB 310-453768/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453768/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 453771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-4	MW-204	Total/NA	Water	351.2	453637
310-305512-5	MW-205	Total/NA	Water	351.2	453637
310-305512-6	MW-206	Total/NA	Water	351.2	453637
310-305512-7	LDR-1	Total/NA	Water	351.2	453637
310-305512-8	LDR-2	Total/NA	Water	351.2	453637
310-305512-9	LDR-3	Total/NA	Water	351.2	453637
310-305512-10	SW-1	Total/NA	Water	351.2	453637
310-305512-15	MW-103R-No Purge	Total/NA	Water	351.2	453637
310-305512-16	MW-101R-Recharge	Total/NA	Water	351.2	453637

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Analysis Batch: 453771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-17	MW-103R-Recharge	Total/NA	Water	351.2	453637
MB 310-453637/1-A	Method Blank	Total/NA	Water	351.2	453637
LCS 310-453637/2-A	Lab Control Sample	Total/NA	Water	351.2	453637

Analysis Batch: 453772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-14	MW-102R-No Purge	Total/NA	Water	SM 2320B	
LCS 310-453772/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 453773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	351.2	453636
310-305512-2	MW-202R	Total/NA	Water	351.2	453636
310-305512-3	MW-203R	Total/NA	Water	351.2	453636
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	351.2	453638
310-305512-12	MW-D	Total/NA	Water	351.2	453636
310-305512-13	MW-101R-No Purge	Total/NA	Water	351.2	453636
310-305512-14	MW-102R-No Purge	Total/NA	Water	351.2	453636
MB 310-453636/1-A	Method Blank	Total/NA	Water	351.2	453636
MB 310-453638/1-A	Method Blank	Total/NA	Water	351.2	453638
LCS 310-453636/25-A	Lab Control Sample	Total/NA	Water	351.2	453636
LCS 310-453638/25-A	Lab Control Sample	Total/NA	Water	351.2	453638

Analysis Batch: 453901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-7	LDR-1	Total/NA	Water	SM 2540C	
310-305512-8	LDR-2	Total/NA	Water	SM 2540C	
310-305512-9	LDR-3	Total/NA	Water	SM 2540C	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	SM 2540C	
MB 310-453901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-453901/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 453946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-9	LDR-3	Total/NA	Water	365.2/365.3/365	
310-305512-16	MW-101R-Recharge	Total/NA	Water	365.2/365.3/365	
MB 310-453946/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-453946/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 453949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	365.2/365.3/365	
310-305512-2	MW-202R	Total/NA	Water	365.2/365.3/365	
310-305512-4	MW-204	Total/NA	Water	365.2/365.3/365	
310-305512-5	MW-205	Total/NA	Water	365.2/365.3/365	
310-305512-6	MW-206	Total/NA	Water	365.2/365.3/365	
310-305512-7	LDR-1	Total/NA	Water	365.2/365.3/365	
310-305512-8	LDR-2	Total/NA	Water	365.2/365.3/365	
310-305512-10	SW-1	Total/NA	Water	365.2/365.3/365	
310-305512-15	MW-103R-No Purge	Total/NA	Water	365.2/365.3/365	
310-305512-17	MW-103R-Recharge	Total/NA	Water	365.2/365.3/365	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Prep Batch: 453949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-453949/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-453949/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 453951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-3	MW-203R	Total/NA	Water	365.2/365.3/365	
310-305512-12	MW-D	Total/NA	Water	365.2/365.3/365	
310-305512-13	MW-101R-No Purge	Total/NA	Water	365.2/365.3/365	
310-305512-14	MW-102R-No Purge	Total/NA	Water	365.2/365.3/365	
MB 310-453951/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-453951/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 454025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	365.1	453949
310-305512-2	MW-202R	Total/NA	Water	365.1	453949
310-305512-3	MW-203R	Total/NA	Water	365.1	453951
310-305512-4	MW-204	Total/NA	Water	365.1	453949
310-305512-5	MW-205	Total/NA	Water	365.1	453949
310-305512-6	MW-206	Total/NA	Water	365.1	453949
310-305512-7	LDR-1	Total/NA	Water	365.1	453949
310-305512-8	LDR-2	Total/NA	Water	365.1	453949
310-305512-9	LDR-3	Total/NA	Water	365.1	453946
310-305512-10	SW-1	Total/NA	Water	365.1	453949
310-305512-12	MW-D	Total/NA	Water	365.1	453951
310-305512-13	MW-101R-No Purge	Total/NA	Water	365.1	453951
310-305512-14	MW-102R-No Purge	Total/NA	Water	365.1	453951
310-305512-15	MW-103R-No Purge	Total/NA	Water	365.1	453949
310-305512-16	MW-101R-Recharge	Total/NA	Water	365.1	453946
310-305512-17	MW-103R-Recharge	Total/NA	Water	365.1	453949
MB 310-453946/1-A	Method Blank	Total/NA	Water	365.1	453946
MB 310-453949/1-A	Method Blank	Total/NA	Water	365.1	453949
MB 310-453951/1-A	Method Blank	Total/NA	Water	365.1	453951
LCS 310-453946/2-A	Lab Control Sample	Total/NA	Water	365.1	453946
LCS 310-453949/2-A	Lab Control Sample	Total/NA	Water	365.1	453949
LCS 310-453951/2-A	Lab Control Sample	Total/NA	Water	365.1	453951

Analysis Batch: 454129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	SM 2320B	
LCS 310-454129/1	Lab Control Sample	Total/NA	Water	SM 2320B	

Prep Batch: 454194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	365.2/365.3/365	
MB 310-454194/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-454194/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 454229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	9060A	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Analysis Batch: 454229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-2	MW-202R	Total/NA	Water	9060A	
310-305512-3	MW-203R	Total/NA	Water	9060A	
310-305512-4	MW-204	Total/NA	Water	9060A	
310-305512-5	MW-205	Total/NA	Water	9060A	
310-305512-6	MW-206	Total/NA	Water	9060A	
310-305512-7	LDR-1	Total/NA	Water	9060A	
310-305512-8	LDR-2	Total/NA	Water	9060A	
310-305512-9	LDR-3	Total/NA	Water	9060A	
310-305512-10	SW-1	Total/NA	Water	9060A	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	9060A	
310-305512-12	MW-D	Total/NA	Water	9060A	
310-305512-13	MW-101R-No Purge	Total/NA	Water	9060A	
310-305512-14	MW-102R-No Purge	Total/NA	Water	9060A	
310-305512-15	MW-103R-No Purge	Total/NA	Water	9060A	
310-305512-16	MW-101R-Recharge	Total/NA	Water	9060A	
310-305512-17	MW-103R-Recharge	Total/NA	Water	9060A	
MB 310-454229/11	Method Blank	Total/NA	Water	9060A	
LCS 310-454229/12	Lab Control Sample	Total/NA	Water	9060A	
310-305512-8 MS	LDR-2	Total/NA	Water	9060A	

Analysis Batch: 454272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	353.2	
310-305512-2	MW-202R	Total/NA	Water	353.2	
310-305512-3	MW-203R	Total/NA	Water	353.2	
310-305512-4	MW-204	Total/NA	Water	353.2	
310-305512-5	MW-205	Total/NA	Water	353.2	
310-305512-6	MW-206	Total/NA	Water	353.2	
310-305512-13	MW-101R-No Purge	Total/NA	Water	353.2	
310-305512-14	MW-102R-No Purge	Total/NA	Water	353.2	
310-305512-15	MW-103R-No Purge	Total/NA	Water	353.2	
310-305512-16	MW-101R-Recharge	Total/NA	Water	353.2	
310-305512-17	MW-103R-Recharge	Total/NA	Water	353.2	
MB 310-454272/16	Method Blank	Total/NA	Water	353.2	
MB 310-454272/44	Method Blank	Total/NA	Water	353.2	
LCS 310-454272/17	Lab Control Sample	Total/NA	Water	353.2	
LCS 310-454272/45	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 454279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	365.1	454194
MB 310-454194/1-A	Method Blank	Total/NA	Water	365.1	454194
LCS 310-454194/2-A	Lab Control Sample	Total/NA	Water	365.1	454194

Analysis Batch: 454344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	SM 2320B	
310-305512-2	MW-202R	Total/NA	Water	SM 2320B	
310-305512-3	MW-203R	Total/NA	Water	SM 2320B	
310-305512-4	MW-204	Total/NA	Water	SM 2320B	
310-305512-5	MW-205	Total/NA	Water	SM 2320B	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry (Continued)

Analysis Batch: 454344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-6	MW-206	Total/NA	Water	SM 2320B	
310-305512-7	LDR-1	Total/NA	Water	SM 2320B	
310-305512-8	LDR-2	Total/NA	Water	SM 2320B	
310-305512-9	LDR-3	Total/NA	Water	SM 2320B	
310-305512-10	SW-1	Total/NA	Water	SM 2320B	
310-305512-12	MW-D	Total/NA	Water	SM 2320B	
310-305512-13	MW-101R-No Purge	Total/NA	Water	SM 2320B	
310-305512-15	MW-103R-No Purge	Total/NA	Water	SM 2320B	
310-305512-16	MW-101R-Recharge	Total/NA	Water	SM 2320B	
310-305512-17	MW-103R-Recharge	Total/NA	Water	SM 2320B	
LCS 310-454344/2	Lab Control Sample	Total/NA	Water	SM 2320B	
310-305512-8 DU	LDR-2	Total/NA	Water	SM 2320B	

Prep Batch: 454483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-2	MW-202R	Total/NA	Water	350.1	
310-305512-7	LDR-1	Total/NA	Water	350.1	
310-305512-8	LDR-2	Total/NA	Water	350.1	
310-305512-9	LDR-3	Total/NA	Water	350.1	
310-305512-10	SW-1	Total/NA	Water	350.1	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	350.1	
310-305512-12	MW-D	Total/NA	Water	350.1	
310-305512-15	MW-103R-No Purge	Total/NA	Water	350.1	
310-305512-17	MW-103R-Recharge	Total/NA	Water	350.1	
MB 310-454483/1-A	Method Blank	Total/NA	Water	350.1	
LCS 310-454483/2-A	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 454484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-3	MW-203R	Total/NA	Water	350.1	
310-305512-4	MW-204	Total/NA	Water	350.1	
310-305512-6	MW-206	Total/NA	Water	350.1	
310-305512-13	MW-101R-No Purge	Total/NA	Water	350.1	
310-305512-14	MW-102R-No Purge	Total/NA	Water	350.1	
310-305512-16	MW-101R-Recharge	Total/NA	Water	350.1	
MB 310-454484/1-A	Method Blank	Total/NA	Water	350.1	
LCS 310-454484/2-A	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 454531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-7	LDR-1	Total/NA	Water	353.2	
310-305512-8	LDR-2	Total/NA	Water	353.2	
310-305512-9	LDR-3	Total/NA	Water	353.2	
310-305512-10	SW-1	Total/NA	Water	353.2	
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	353.2	
310-305512-12	MW-D	Total/NA	Water	353.2	
MB 310-454531/16	Method Blank	Total/NA	Water	353.2	
LCS 310-454531/17	Lab Control Sample	Total/NA	Water	353.2	

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

General Chemistry

Prep Batch: 454532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	350.1	
310-305512-5	MW-205	Total/NA	Water	350.1	
MB 310-454532/1-A	Method Blank	Total/NA	Water	350.1	
LCS 310-454532/2-A	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 454581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-305512-1	MW-201	Total/NA	Water	350.1	454532
310-305512-2	MW-202R	Total/NA	Water	350.1	454483
310-305512-3	MW-203R	Total/NA	Water	350.1	454484
310-305512-4	MW-204	Total/NA	Water	350.1	454484
310-305512-5	MW-205	Total/NA	Water	350.1	454532
310-305512-6	MW-206	Total/NA	Water	350.1	454484
310-305512-7	LDR-1	Total/NA	Water	350.1	454483
310-305512-8	LDR-2	Total/NA	Water	350.1	454483
310-305512-9	LDR-3	Total/NA	Water	350.1	454483
310-305512-10	SW-1	Total/NA	Water	350.1	454483
310-305512-11	Phase 1,2,3 Sump Composite	Total/NA	Water	350.1	454483
310-305512-12	MW-D	Total/NA	Water	350.1	454483
310-305512-13	MW-101R-No Purge	Total/NA	Water	350.1	454484
310-305512-14	MW-102R-No Purge	Total/NA	Water	350.1	454484
310-305512-15	MW-103R-No Purge	Total/NA	Water	350.1	454483
310-305512-16	MW-101R-Recharge	Total/NA	Water	350.1	454484
310-305512-17	MW-103R-Recharge	Total/NA	Water	350.1	454483
MB 310-454483/1-A	Method Blank	Total/NA	Water	350.1	454483
MB 310-454484/1-A	Method Blank	Total/NA	Water	350.1	454484
MB 310-454532/1-A	Method Blank	Total/NA	Water	350.1	454532
LCS 310-454483/2-A	Lab Control Sample	Total/NA	Water	350.1	454483
LCS 310-454484/2-A	Lab Control Sample	Total/NA	Water	350.1	454484
LCS 310-454532/2-A	Lab Control Sample	Total/NA	Water	350.1	454532

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-201

Lab Sample ID: 310-305512-1

Date Collected: 04/29/25 16:20

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454391	QTZ5	EET CF	05/08/25 22:55
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:36
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:36
Total/NA	Prep	350.1			454532	RLT9	EET CF	05/13/25 13:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 19:58
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:15
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:12
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:40
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 16:28
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 12:18
Total/NA	Analysis	SM 2540C		1	453767	MDU9	EET CF	05/05/25 16:57

Client Sample ID: MW-202R

Lab Sample ID: 310-305512-2

Date Collected: 04/29/25 15:01

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454391	QTZ5	EET CF	05/08/25 23:09
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 21:37
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 21:37
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:59
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:13
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:14
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:41
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 17:04
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 12:28
Total/NA	Analysis	SM 2540C		1	453767	MDU9	EET CF	05/05/25 16:57

Client Sample ID: MW-203R

Lab Sample ID: 310-305512-3

Date Collected: 04/29/25 14:26

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454391	QTZ5	EET CF	05/08/25 23:23

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-203R

Lab Sample ID: 310-305512-3

Date Collected: 04/29/25 14:26

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:01
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:01
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:13
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:15
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:16
Total/NA	Prep	365.2/365.3/365			453951	HE7K	EET CF	05/07/25 09:23
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 15:20
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 17:40
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 12:38
Total/NA	Analysis	SM 2540C		1	453767	MDU9	EET CF	05/05/25 16:57

Client Sample ID: MW-204

Lab Sample ID: 310-305512-4

Date Collected: 04/29/25 15:38

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454391	QTZ5	EET CF	05/08/25 23:37
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:15
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:15
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:11
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:57
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:18
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:38
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 18:16
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 12:48
Total/NA	Analysis	SM 2540C		1	453767	MDU9	EET CF	05/05/25 16:57

Client Sample ID: MW-205

Lab Sample ID: 310-305512-5

Date Collected: 04/29/25 17:14

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454391	QTZ5	EET CF	05/08/25 23:51

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-205

Lab Sample ID: 310-305512-5

Date Collected: 04/29/25 17:14

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:18
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:18
Total/NA	Prep	350.1			454532	RLT9	EET CF	05/13/25 13:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 20:12
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:59
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:58
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:36
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 20:04
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 12:58
Total/NA	Analysis	SM 2540C		1	453768	MDU9	EET CF	05/05/25 17:05

Client Sample ID: MW-206

Lab Sample ID: 310-305512-6

Date Collected: 04/29/25 18:00

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/09/25 15:16
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 19:09
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 21:09
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/08/25 19:09
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:14
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:57
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 09:00
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:33
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 20:40
Total/NA	Analysis	I-3765-85		1	453514	HE7K	EET CF	05/02/25 11:18
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 13:15
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-1

Date Collected: 04/30/25 10:35

Date Received: 05/01/25 16:05

Lab Sample ID: 310-305512-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/09/25 15:56
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 18:01
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454361	ZRI4	EET CF	05/10/25 20:37
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/10/25 20:37
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:52
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:59
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:49
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:37
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 21:16
Total/NA	Analysis	I-3765-85		1	453616	XJ7V	EET CF	05/03/25 08:13
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 13:27
Total/NA	Analysis	SM 2540C		1	453901	XJ7V	EET CF	05/06/25 18:00

Client Sample ID: LDR-2

Date Collected: 04/30/25 10:56

Date Received: 05/01/25 16:05

Lab Sample ID: 310-305512-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/09/25 16:09
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454477	NFT2	EET CF	05/12/25 15:20
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:30
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/12/25 15:20
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:50
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:59
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:51
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:36
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 21:52
Total/NA	Analysis	I-3765-85		1	453616	XJ7V	EET CF	05/03/25 08:13
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 13:38
Total/NA	Analysis	SM 2540C		1	453901	XJ7V	EET CF	05/06/25 18:00

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: LDR-3

Lab Sample ID: 310-305512-9

Date Collected: 04/30/25 11:35

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		100	454447	QTZ5	EET CF	05/09/25 16:22
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 19:00
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		7	454361	ZRI4	EET CF	05/10/25 21:00
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/10/25 21:00
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:50
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 18:01
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:53
Total/NA	Prep	365.2/365.3/365			453946	HE7K	EET CF	05/07/25 08:48
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:02
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 23:04
Total/NA	Analysis	I-3765-85		1	453616	XJ7V	EET CF	05/03/25 08:13
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 14:03
Total/NA	Analysis	SM 2540C		1	453901	XJ7V	EET CF	05/06/25 18:00

Client Sample ID: SW-1

Lab Sample ID: 310-305512-10

Date Collected: 04/29/25 18:15

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/09/25 16:35
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454477	NFT2	EET CF	05/12/25 15:10
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:12
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:12
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:47
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 18:00
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:55
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:38
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/08/25 23:41
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 14:16
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: Phase 1,2,3 Sump Composite

Lab Sample ID: 310-305512-11

Date Collected: 04/30/25 12:05

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		100	454447	QTZ5	EET CF	05/09/25 16:48
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 18:19
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		150	454361	ZRI4	EET CF	05/10/25 20:45
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/08/25 18:19
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:47
Total/NA	Prep	351.2			453638	W9YR	EET CF	05/05/25 05:31
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 22:45
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:57
Total/NA	Prep	365.2/365.3/365			454194	T5AC	EET CF	05/08/25 18:31
Total/NA	Analysis	365.1		1	454279	WZC8	EET CF	05/09/25 10:25
Total/NA	Analysis	9060A		40	454229	HE7K	EET CF	05/09/25 00:16
Total/NA	Analysis	I-3765-85		1	453619	XJ7V	EET CF	05/03/25 09:16
Total/NA	Analysis	SM 2320B		1	454129	WZC8	EET CF	05/08/25 11:28
Total/NA	Analysis	SM 2540C		1	453901	XJ7V	EET CF	05/06/25 18:00

Client Sample ID: MW-D

Lab Sample ID: 310-305512-12

Date Collected: 04/29/25 18:00

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/09/25 17:27
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/12/25 10:33
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 18:48
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454361	ZRI4	EET CF	05/10/25 20:54
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/08/25 18:48
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:52
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:16
Total/NA	Analysis	353.2		1	454531	WZC8	EET CF	05/13/25 01:58
Total/NA	Prep	365.2/365.3/365			453951	HE7K	EET CF	05/07/25 09:23
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:57
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 00:52
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 14:26
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25

Eurofins Cedar Falls

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-101R-No Purge

Lab Sample ID: 310-305512-13

Date Collected: 04/29/25 13:35

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/09/25 17:40
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:09
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:09
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:11
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:15
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 08:19
Total/NA	Prep	365.2/365.3/365			453951	HE7K	EET CF	05/07/25 09:23
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 15:20
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 01:28
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 14:37
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25

Client Sample ID: MW-102R-No Purge

Lab Sample ID: 310-305512-14

Date Collected: 04/29/25 13:00

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/09/25 17:53
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/12/25 10:45
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454477	NFT2	EET CF	05/12/25 15:08
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 21:58
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/12/25 15:08
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:16
Total/NA	Prep	351.2			453636	W9YR	EET CF	05/05/25 05:08
Total/NA	Analysis	351.2		1	453773	ZJX4	EET CF	05/05/25 19:17
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 09:02
Total/NA	Prep	365.2/365.3/365			453951	HE7K	EET CF	05/07/25 09:23
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 15:20
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 03:16
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	453772	HE7K	EET CF	05/05/25 19:45
Total/NA	Analysis	SM 2540C		1	453603	MDU9	EET CF	05/02/25 20:25

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-103R-No Purge

Lab Sample ID: 310-305512-15

Date Collected: 04/29/25 12:26

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	454447	QTZ5	EET CF	05/09/25 18:06
Total/NA	Analysis	9056A		100	454447	QTZ5	EET CF	05/09/25 18:20
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 18:22
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454361	ZRI4	EET CF	05/10/25 20:48
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/10/25 20:48
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:01
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:55
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 09:04
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:34
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 03:52
Total/NA	Analysis	I-3765-85		1	453554	HE7K	EET CF	05/02/25 14:08
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 14:48
Total/NA	Analysis	SM 2540C		1	453604	MDU9	EET CF	05/02/25 20:31

Client Sample ID: MW-101R-Recharge

Lab Sample ID: 310-305512-16

Date Collected: 04/30/25 09:56

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/09/25 18:33
Total/NA	Prep	3005A			453874	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454379	NFT2	EET CF	05/11/25 22:24
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/11/25 22:24
Total/NA	Prep	350.1			454484	RLT9	EET CF	05/13/25 09:01
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 18:14
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:56
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 09:05
Total/NA	Prep	365.2/365.3/365			453946	HE7K	EET CF	05/07/25 08:48
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:01
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 04:29
Total/NA	Analysis	I-3765-85		1	453616	XJ7V	EET CF	05/03/25 08:13
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 15:01
Total/NA	Analysis	SM 2540C		1	453768	MDU9	EET CF	05/05/25 17:05

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Client Sample ID: MW-103R-Recharge

Lab Sample ID: 310-305512-17

Date Collected: 04/30/25 09:15

Matrix: Water

Date Received: 05/01/25 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	454447	QTZ5	EET CF	05/09/25 18:46
Total/NA	Analysis	9056A		20	454447	QTZ5	EET CF	05/12/25 10:58
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		1	454259	ZRI4	EET CF	05/08/25 18:25
Total/NA	Prep	3005A			453871	QTZ5	EET CF	05/07/25 09:00
Total/NA	Analysis	6020B		4	454361	ZRI4	EET CF	05/10/25 20:51
Total/NA	Analysis	SM 2340B		1	453758	HE7K	EET CF	05/10/25 20:51
Total/NA	Prep	350.1			454483	RLT9	EET CF	05/13/25 08:55
Total/NA	Analysis	350.1		1	454581	ZJX4	EET CF	05/13/25 17:57
Total/NA	Prep	351.2			453637	W9YR	EET CF	05/05/25 05:10
Total/NA	Analysis	351.2		1	453771	ZJX4	EET CF	05/05/25 17:57
Total/NA	Analysis	353.2		1	454272	WZC8	EET CF	05/09/25 09:07
Total/NA	Prep	365.2/365.3/365			453949	HE7K	EET CF	05/07/25 09:08
Total/NA	Analysis	365.1		1	454025	WZC8	EET CF	05/07/25 14:35
Total/NA	Analysis	9060A		1	454229	HE7K	EET CF	05/09/25 05:05
Total/NA	Analysis	I-3765-85		1	453619	XJ7V	EET CF	05/03/25 09:16
Total/NA	Analysis	SM 2320B		1	454344	HE7K	EET CF	05/09/25 15:18
Total/NA	Analysis	SM 2540C		1	453768	MDU9	EET CF	05/05/25 17:05

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill-Spring 2025

Job ID: 310-305512-1

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET CF
365.1	Phosphorus, Total	EPA	EET CF
9060A	Organic Carbon, Total (TOC)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2320B	Alkalinity	SM	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
350.1	Distillation, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
365.2/365.3/365	Phosphorus, Total	EPA	EET CF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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



Environment Testing
America



310-305512 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information		
Client: <u>SCS</u>		
City/State: <u>W. Des Moines IA</u>	Project:	
Receipt Information		
Date/Time Received: <u>5/1/25</u> <u>1605</u>	Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____		
Condition of Cooler/Containers		
Sample(s) received in Cooler?	☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?	☒ Yes ☐ No	If yes: Cooler # <u>1</u> of <u>4</u>
Cooler Custody Seals Present?	☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?	☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record		
Coolant:	☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____	☐ NONE
Thermometer ID: <u>2</u>	Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature		
Uncorrected Temp (°C): <u>0.6</u>	Corrected Temp (°C): <u>0.6</u>	
• Sample Container Temperature		
Container(s) used:	CONTAINER 1	CONTAINER 2
Uncorrected Temp (°C):		
Corrected Temp (°C)		
Exceptions Noted		
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No		
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No		
NOTE If yes, contact PM before proceeding. If no, proceed with login		
Additional Comments		



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>W. Des Moines</u> <u>IA</u>		Project:	
Receipt Information			
Date/Time Received: <u>5/1/25</u> <u>1605</u>		Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>2</u> of <u>4</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.1</u>		Corrected Temp (°C): <u>2.1</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>W. Des Moines</u> <u>IA</u>		Project:	
Receipt Information			
Date/Time Received: <u>5/1/25</u> <u>1605</u>		Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>3</u> of <u>4</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes. Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.4</u>		Corrected Temp (°C): <u>0.4</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

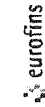


Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State: <u>W. Des Moines</u> <u>IA</u>		Project:	
Receipt Information			
Date/Time Received: <u>5/1/25</u> <u>1605</u>		Received By: <u>XB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		If yes: Cooler ID:	
☒ Yes ☐ No			
Multiple Coolers?		If yes: Cooler # <u>4</u> of <u>4</u>	
☒ Yes ☐ No			
Cooler Custody Seals Present?		If yes: Cooler custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Sample Custody Seals Present?		If yes: Sample custody seals intact?	
☐ Yes ☒ No		☐ Yes ☐ No	
Trip Blank Present?		If yes: Which VOA samples are in cooler? ↓	
☐ Yes ☒ No			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.2</u>		Corrected Temp (°C): <u>0.2</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record

Eurofins TestAmerica Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Groundwater

Regulatory Program ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Email		Cell		Lab Contact		Carrier		2 of 4 COCs	
Kevin Jensen SCS Engineers		1690 All-State Court Suite 100		West Des Moines Iowa 50265		515-631-6154		For Lab Use Only	
K 5030 USDJ EE CO		Project Name Heidelberg CKD Monofil Spring 2025		Site Heidelberg Materials CKD Monofil		P O #		Walk-in Client	
Analysis Turnaround Time		CALENDAR DAYS		WORKING DAYS		Other		Lab Sampling	
Sample Date		Sample Time		Sample Type (G-Comp, G-Grab)		# of Matrix Cont.		Job / SDG No	
MW 101R No Purge		4-29-25 1335		G		H2O		Sample Specific Notes	
MW 102R No Purge		4-29-25 1300		G		H2O			
MW 103R No Purge		4-29-25 1226		G		H2O			
MW 101R Recharge		4-30-25 0956		G		H2O			
MW 102R Recharge		4-30-25 0915		G		H2O			
MW 103R Recharge		4-30-25 0915		G		H2O			
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification									
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample									
Special Instructions/QC Requirements & Comments									
Custody Seals Intact		Yes ☐ No ☐		Custody Seal No		Company		Therm ID No	
Relinquished by		Kumar Rathi		Date/Time		Date/Time		Date/Time	
Relinquished by		Company		Company		Company		Company	
Relinquished by		Company		Company		Company		Company	

Form No CA-C-W-002 Rev 4.23 dated 4/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-305512-1

Login Number: 305512

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Bunker, Xavier M

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Jensen
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 10/27/2025 10:38:33 AM

JOB DESCRIPTION

Heidelberg CKD Monofill - Fall 2025
Heidelberg Materials CKD Monofill

JOB NUMBER

310-317864-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)595-2008



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Case Narrative

Client: SCS Engineers
Project: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1

Job ID: 310-317864-1

Eurofins Cedar Falls

Job Narrative 310-317864-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/10/2025 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.2°C, 1.2°C, 2.6°C and 3.3°C.

HPLC/IC

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

Metals

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

General Chemistry

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

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-317864-1	MW-101R -No Purge	Water	10/08/25 14:28	10/10/25 16:30	Iowa
310-317864-2	MW-102R - No Purge	Water	10/08/25 13:56	10/10/25 16:30	Iowa
310-317864-3	MW-103R - No Purge	Water	10/08/25 13:22	10/10/25 16:30	Iowa
310-317864-4	MW-101R - Recharge	Water	10/09/25 09:50	10/10/25 16:30	Iowa
310-317864-5	MW-103R - Recharge	Water	10/09/25 09:15	10/10/25 16:30	Iowa
310-317864-6	MW-201	Water	10/09/25 11:12	10/10/25 16:30	Iowa
310-317864-7	MW-202R	Water	10/08/25 17:00	10/10/25 16:30	Iowa
310-317864-8	MW-203R	Water	10/08/25 15:52	10/10/25 16:30	Iowa
310-317864-9	MW-204	Water	10/08/25 16:28	10/10/25 16:30	Iowa
310-317864-10	MW-205	Water	10/09/25 10:29	10/10/25 16:30	Iowa
310-317864-11	MW-206	Water	10/08/25 15:18	10/10/25 16:30	Iowa
310-317864-12	LDR-1	Water	10/09/25 11:33	10/10/25 16:30	Iowa
310-317864-13	LDR-2	Water	10/09/25 12:22	10/10/25 16:30	Iowa
310-317864-14	LDR-3	Water	10/09/25 13:04	10/10/25 16:30	Iowa
310-317864-15	SW-1	Water	10/09/25 14:00	10/10/25 16:30	Iowa
310-317864-16	MW-D	Water	10/08/25 15:18	10/10/25 16:30	Iowa

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-101R - No Purge

Lab Sample ID: 310-317864-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.23	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	346		5.00	2.10	mg/L	5		9056A	Total/NA
Aluminum	0.286		0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.00340		0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	168		0.500	0.190	mg/L	1		6020B	Total/NA
Chromium	0.00315	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Magnesium	89.5		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	8.42		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	50.3		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	788		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Total Phosphorus as P	0.123		0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	1.38		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	68.2		3.00	2.10	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	430		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	430		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	832		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-102R - No Purge

Lab Sample ID: 310-317864-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.29		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	1470		20.0	8.40	mg/L	20		9056A	Total/NA
Calcium	454		2.00	0.760	mg/L	4		6020B	Total/NA
Magnesium	248		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	13.0		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	53.2		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	2150		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Total Organic Carbon	1.69		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	1.63	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	646		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	646		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2520		250	180	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-103R - No Purge

Lab Sample ID: 310-317864-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19.1		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	1790		20.0	8.40	mg/L	20		9056A	Total/NA
Arsenic	0.000560	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	525		2.00	0.760	mg/L	4		6020B	Total/NA
Magnesium	305		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	25.7		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	58.6		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	2570		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Total Organic Carbon	1.54		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	607		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	607		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3110		250	180	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-101R - Recharge

Lab Sample ID: 310-317864-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.06	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	134		5.00	2.10	mg/L	5		9056A	Total/NA
Aluminum	0.0930		0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.00520		0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	103		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	53.5		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	6.74		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	30.9		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	478		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Total Organic Carbon	1.38		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	28.4		3.00	2.10	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	297		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	297		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-103R - Recharge

Lab Sample ID: 310-317864-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20.3		10.0	4.50	mg/L	10		9056A	Total/NA
Sulfate	1770		20.0	8.40	mg/L	20		9056A	Total/NA
Arsenic	0.000565	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	526		2.00	0.760	mg/L	4		6020B	Total/NA
Magnesium	310		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	20.5		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	66.4		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	2590		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Nitrate Nitrite as N	0.0989	J	0.100	0.0800	mg/L	1		353.2	Total/NA
Total Organic Carbon	1.56		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	546		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	546		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2900		250	180	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-201

Lab Sample ID: 310-317864-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.6		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	136		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.000984	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	117		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	55.8		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	25.4		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	27.1		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	522		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.647		0.200	0.110	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.35		1.00	0.620	mg/L	1		351.2	Total/NA
Total Phosphorus as P	0.122		0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	1.95		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	400		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	626		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-202R

Lab Sample ID: 310-317864-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15.9		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	100		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00153	J B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	53.0		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	53.4		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	7.00		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	28.8		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	352		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.110	J	0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.55		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	325		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	325		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	382		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-203R

Lab Sample ID: 310-317864-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.15	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	2.10	J	5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00216	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	75.0		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	34.4		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	5.22		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	16.5		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	329		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.193	J	0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.66	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	2.13		1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	354		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	354		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	328		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-204

Lab Sample ID: 310-317864-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24.0		5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	158		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00222	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	113		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	57.0		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	10.8		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	19.6		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	517		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.233		0.200	0.110	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.639	J	1.00	0.620	mg/L	1		351.2	Total/NA
Total Organic Carbon	1.78	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	1.50	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	357		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	357		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	692		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-205

Lab Sample ID: 310-317864-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.32	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	15.6		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00209	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	78.0		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	37.2		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	5.81		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	16.7		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	348		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.174	J	0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.50	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	1.63	J	1.88	1.31	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	357		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	357		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	336		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-206

Lab Sample ID: 310-317864-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.35	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	26.8		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00147	J B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	80.4		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	36.7		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	6.50		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	17.3		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	352		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.133	J	0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.50	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	373		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	373		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	380		50.0	36.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDR-1

Lab Sample ID: 310-317864-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	30.9		20.0	9.00	mg/L	20		9056A	Total/NA
Sulfate	1640		20.0	8.40	mg/L	20		9056A	Total/NA
Arsenic	0.00284	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	447		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	253		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	50.4		2.00	0.680	mg/L	4		6020B	Total/NA
Sodium	28.7		4.00	2.60	mg/L	4		6020B	Total/NA
Total Hardness	2160		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.260		0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.87	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	4.33	J	5.00	3.50	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	641		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	641		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2760		250	180	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: LDR-2

Lab Sample ID: 310-317864-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	185		50.0	22.5	mg/L	50		9056A	Total/NA
Sulfate	1460		50.0	21.0	mg/L	50		9056A	Total/NA
Arsenic	0.00290	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	492		2.00	0.760	mg/L	4		6020B	Total/NA
Magnesium	269		2.00	0.600	mg/L	4		6020B	Total/NA
Potassium	58.6		2.00	0.680	mg/L	4		6020B	Total/NA
Sodium	55.4		4.00	2.60	mg/L	4		6020B	Total/NA
Total Hardness	2340		8.24	2.47	mg/L	1		SM 2340B	Total/NA
Total Organic Carbon	1.82	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	696		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	696		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2800		250	180	mg/L	1		SM 2540C	Total/NA

Client Sample ID: LDR-3

Lab Sample ID: 310-317864-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	705		100	45.0	mg/L	100		9056A	Total/NA
Sulfate	2430		100	42.0	mg/L	100		9056A	Total/NA
Arsenic	0.00358	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	758		3.50	1.33	mg/L	7		6020B	Total/NA
Lead	0.000587		0.000500	0.000330	mg/L	1		6020B	Total/NA
Magnesium	464		3.50	1.05	mg/L	7		6020B	Total/NA
Potassium	639		5.00	1.70	mg/L	10		6020B	Total/NA
Sodium	135		7.00	4.55	mg/L	7		6020B	Total/NA
Total Hardness	3800		14.4	4.32	mg/L	1		SM 2340B	Total/NA
Ammonia as N	1.41		0.200	0.110	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.22		1.00	0.620	mg/L	1		351.2	Total/NA
Total Organic Carbon	1.38	B	1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	5.60		3.00	2.10	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	683		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	683		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	5250		250	180	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SW-1

Lab Sample ID: 310-317864-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	43.6		20.0	9.00	mg/L	20		9056A	Total/NA
Sulfate	93.6		20.0	8.40	mg/L	20		9056A	Total/NA
Aluminum	0.0446	J	0.0500	0.0290	mg/L	1		6020B	Total/NA
Arsenic	0.00321	B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	81.2		0.500	0.190	mg/L	1		6020B	Total/NA
Lead	0.000427	J	0.000500	0.000330	mg/L	1		6020B	Total/NA
Magnesium	24.7		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	183		2.00	0.680	mg/L	4		6020B	Total/NA
Sodium	12.1		4.00	2.60	mg/L	4		6020B	Total/NA
Total Hardness	304		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Total Phosphorus as P	0.127		0.100	0.0680	mg/L	1		365.1	Total/NA
Total Organic Carbon	7.45		1.00	0.500	mg/L	1		9060A	Total/NA
Total Suspended Solids	15.8		3.00	2.10	mg/L	1		I-3765-85	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	409		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	409		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	652		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1

SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-D

Lab Sample ID: 310-317864-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.34	J	5.00	2.25	mg/L	5		9056A	Total/NA
Sulfate	26.6		5.00	2.10	mg/L	5		9056A	Total/NA
Arsenic	0.00159	J B	0.00200	0.000530	mg/L	1		6020B	Total/NA
Calcium	84.8		0.500	0.190	mg/L	1		6020B	Total/NA
Magnesium	38.7		0.500	0.150	mg/L	1		6020B	Total/NA
Potassium	6.56		0.500	0.170	mg/L	1		6020B	Total/NA
Sodium	17.3		1.00	0.650	mg/L	1		6020B	Total/NA
Total Hardness	371		2.06	0.618	mg/L	1		SM 2340B	Total/NA
Ammonia as N	0.199	J	0.200	0.110	mg/L	1		350.1	Total/NA
Total Organic Carbon	1.34		1.00	0.500	mg/L	1		9060A	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	275		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	275		5.00	2.50	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	354		50.0	36.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
SM 2340B	Total Hardness	Water	Total/NA	mg/L	0.500	3.3

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-101R -No Purge

Lab Sample ID: 310-317864-1

Date Collected: 10/08/25 14:28

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.23	J	5.00	2.25	mg/L			10/21/25 11:16	5
Sulfate	346		5.00	2.10	mg/L			10/21/25 11:16	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.286		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:14	1
Arsenic	0.00340		0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:14	1
Calcium	168		0.500	0.190	mg/L		10/20/25 09:00	10/23/25 19:14	1
Chromium	0.00315	J	0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:14	1
Lead	<0.00200		0.00200	0.00132	mg/L		10/20/25 09:00	10/24/25 14:57	4
Magnesium	89.5		2.00	0.600	mg/L		10/20/25 09:00	10/24/25 14:57	4
Potassium	8.42		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:14	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:14	1
Sodium	50.3		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:14	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	788		8.24	2.47	mg/L			10/24/25 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200		0.200	0.110	mg/L			10/16/25 21:07	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:20	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:05	1
Total Phosphorus as P (EPA 365.1)	0.123		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:12	1
Total Organic Carbon (SW846 9060A)	1.38		1.00	0.500	mg/L			10/17/25 02:41	1
Total Suspended Solids (USGS I-3765-85)	68.2		3.00	2.10	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	430		5.00	2.50	mg/L			10/15/25 01:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	430		5.00	2.50	mg/L			10/15/25 01:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 01:05	1
Total Dissolved Solids (SM 2540C)	832		50.0	36.0	mg/L			10/14/25 14:30	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-102R - No Purge

Lab Sample ID: 310-317864-2

Date Collected: 10/08/25 13:56

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.29		5.00	2.25	mg/L			10/21/25 16:17	5
Sulfate	1470		20.0	8.40	mg/L			10/21/25 16:29	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:17	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:17	1
Calcium	454		2.00	0.760	mg/L		10/20/25 09:00	10/24/25 15:00	4
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:17	1
Lead	<0.00200		0.00200	0.00132	mg/L		10/20/25 09:00	10/24/25 15:00	4
Magnesium	248		2.00	0.600	mg/L		10/20/25 09:00	10/24/25 15:00	4
Potassium	13.0		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:17	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:17	1
Sodium	53.2		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:17	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2150		8.24	2.47	mg/L			10/24/25 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200	F1	0.200	0.110	mg/L			10/16/25 21:09	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:20	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:18	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:10	1
Total Organic Carbon (SW846 9060A)	1.69		1.00	0.500	mg/L			10/17/25 03:17	1
Total Suspended Solids (USGS I-3765-85)	1.63	J	1.88	1.31	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	646		5.00	2.50	mg/L			10/15/25 03:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	646		5.00	2.50	mg/L			10/15/25 03:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 03:35	1
Total Dissolved Solids (SM 2540C)	2520		250	180	mg/L			10/14/25 14:30	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-103R - No Purge

Lab Sample ID: 310-317864-3

Date Collected: 10/08/25 13:22

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		10.0	4.50	mg/L			10/21/25 16:40	10
Sulfate	1790		20.0	8.40	mg/L			10/21/25 12:02	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:20	1
Arsenic	0.000560	J	0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:20	1
Calcium	525		2.00	0.760	mg/L		10/20/25 09:00	10/24/25 15:03	4
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:20	1
Lead	<0.00200		0.00200	0.00132	mg/L		10/20/25 09:00	10/24/25 15:03	4
Magnesium	305		2.00	0.600	mg/L		10/20/25 09:00	10/24/25 15:03	4
Potassium	25.7		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:20	1
Sodium	58.6		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2570		8.24	2.47	mg/L			10/24/25 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200		0.200	0.110	mg/L			10/16/25 21:12	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:19	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:20	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:39	1
Total Organic Carbon (SW846 9060A)	1.54		1.00	0.500	mg/L			10/17/25 03:53	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	607		5.00	2.50	mg/L			10/17/25 00:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	607		5.00	2.50	mg/L			10/17/25 00:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/17/25 00:29	1
Total Dissolved Solids (SM 2540C)	3110		250	180	mg/L			10/14/25 17:17	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-101R - Recharge

Lab Sample ID: 310-317864-4

Date Collected: 10/09/25 09:50

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.06	J	5.00	2.25	mg/L			10/21/25 12:14	5
Sulfate	134		5.00	2.10	mg/L			10/21/25 12:14	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0930		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:29	1
Arsenic	0.00520		0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:29	1
Calcium	103		0.500	0.190	mg/L		10/20/25 09:00	10/23/25 19:29	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:29	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/24/25 15:06	1
Magnesium	53.5		0.500	0.150	mg/L		10/20/25 09:00	10/23/25 19:29	1
Potassium	6.74		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:29	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:29	1
Sodium	30.9		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	478		2.06	0.618	mg/L			10/23/25 19:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200		0.200	0.110	mg/L			10/16/25 21:14	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:19	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:21	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:40	1
Total Organic Carbon (SW846 9060A)	1.38		1.00	0.500	mg/L			10/17/25 04:29	1
Total Suspended Solids (USGS I-3765-85)	28.4		3.00	2.10	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	297		5.00	2.50	mg/L			10/17/25 00:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	297		5.00	2.50	mg/L			10/17/25 00:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/17/25 00:40	1
Total Dissolved Solids (SM 2540C)	550		50.0	36.0	mg/L			10/15/25 13:32	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-103R - Recharge

Lab Sample ID: 310-317864-5

Date Collected: 10/09/25 09:15

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		10.0	4.50	mg/L			10/21/25 12:25	10
Sulfate	1770		20.0	8.40	mg/L			10/21/25 16:52	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:31	1
Arsenic	0.000565	J	0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:31	1
Calcium	526		2.00	0.760	mg/L		10/20/25 09:00	10/24/25 15:09	4
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:31	1
Lead	<0.00200		0.00200	0.00132	mg/L		10/20/25 09:00	10/24/25 15:09	4
Magnesium	310		2.00	0.600	mg/L		10/20/25 09:00	10/24/25 15:09	4
Potassium	20.5		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:31	1
Sodium	66.4		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2590		8.24	2.47	mg/L			10/24/25 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200	F1	0.200	0.110	mg/L			10/21/25 20:15	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:19	1
Nitrate Nitrite as N (EPA 353.2)	0.0989	J	0.100	0.0800	mg/L			10/19/25 20:23	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/14/25 18:00	10/15/25 18:34	1
Total Organic Carbon (SW846 9060A)	1.56		1.00	0.500	mg/L			10/17/25 05:05	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	546		5.00	2.50	mg/L			10/17/25 00:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	546		5.00	2.50	mg/L			10/17/25 00:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/17/25 00:50	1
Total Dissolved Solids (SM 2540C)	2900		250	180	mg/L			10/15/25 13:32	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-201

Lab Sample ID: 310-317864-6

Date Collected: 10/09/25 11:12

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.6		5.00	2.25	mg/L			10/21/25 12:37	5
Sulfate	136		5.00	2.10	mg/L			10/21/25 12:37	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 19:34	1
Arsenic	0.000984	J	0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 19:34	1
Calcium	117		0.500	0.190	mg/L		10/20/25 09:00	10/23/25 19:34	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 19:34	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/24/25 15:12	1
Magnesium	55.8		0.500	0.150	mg/L		10/20/25 09:00	10/23/25 19:34	1
Potassium	25.4		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 19:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 19:34	1
Sodium	27.1		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 19:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	522		2.06	0.618	mg/L			10/23/25 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.647		0.200	0.110	mg/L			10/16/25 21:14	1
Total Kjeldahl Nitrogen (EPA 351.2)	1.35		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:49	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:25	1
Total Phosphorus as P (EPA 365.1)	0.122		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:06	1
Total Organic Carbon (SW846 9060A)	1.95		1.00	0.500	mg/L			10/17/25 06:53	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	400		5.00	2.50	mg/L			10/17/25 01:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	400		5.00	2.50	mg/L			10/17/25 01:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/17/25 01:01	1
Total Dissolved Solids (SM 2540C)	626		50.0	36.0	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-202R

Lab Sample ID: 310-317864-7

Date Collected: 10/08/25 17:00

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		5.00	2.25	mg/L			10/21/25 13:12	5
Sulfate	100		5.00	2.10	mg/L			10/21/25 13:12	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:36	1
Arsenic	0.00153	J B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:36	1
Calcium	53.0		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:36	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:36	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:36	1
Magnesium	53.4		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:36	1
Potassium	7.00		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:31	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:36	1
Sodium	28.8		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:31	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	352		2.06	0.618	mg/L			10/21/25 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.110	J	0.200	0.110	mg/L			10/16/25 21:16	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:41	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:27	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:04	1
Total Organic Carbon (SW846 9060A)	1.55		1.00	0.500	mg/L			10/17/25 07:29	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	325		5.00	2.50	mg/L			10/17/25 01:11	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	325		5.00	2.50	mg/L			10/17/25 01:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/17/25 01:11	1
Total Dissolved Solids (SM 2540C)	382		50.0	36.0	mg/L			10/14/25 17:17	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-203R

Lab Sample ID: 310-317864-8

Date Collected: 10/08/25 15:52

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.15	J	5.00	2.25	mg/L			10/21/25 13:23	5
Sulfate	2.10	J	5.00	2.10	mg/L			10/21/25 13:23	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:39	1
Arsenic	0.00216	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:39	1
Calcium	75.0		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:39	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:39	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:39	1
Magnesium	34.4		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:39	1
Potassium	5.22		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:39	1
Sodium	16.5		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:34	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	329		2.06	0.618	mg/L			10/21/25 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.193	J	0.200	0.110	mg/L			10/16/25 21:16	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:47	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:29	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:00	1
Total Organic Carbon (SW846 9060A)	1.66	B	1.00	0.500	mg/L			10/21/25 22:53	1
Total Suspended Solids (USGS I-3765-85)	2.13		1.88	1.31	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	354		5.00	2.50	mg/L			10/15/25 03:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	354		5.00	2.50	mg/L			10/15/25 03:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 03:47	1
Total Dissolved Solids (SM 2540C)	328		50.0	36.0	mg/L			10/14/25 14:30	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-204

Lab Sample ID: 310-317864-9

Date Collected: 10/08/25 16:28

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		5.00	2.25	mg/L			10/21/25 13:35	5
Sulfate	158		5.00	2.10	mg/L			10/21/25 13:35	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:41	1
Arsenic	0.00222	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:41	1
Calcium	113		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:41	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:41	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:41	1
Magnesium	57.0		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:41	1
Potassium	10.8		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:36	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:41	1
Sodium	19.6		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:36	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	517		2.06	0.618	mg/L			10/21/25 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.233		0.200	0.110	mg/L			10/16/25 21:17	1
Total Kjeldahl Nitrogen (EPA 351.2)	0.639	J	1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:42	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:31	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:03	1
Total Organic Carbon (SW846 9060A)	1.78	B	1.00	0.500	mg/L			10/22/25 00:05	1
Total Suspended Solids (USGS I-3765-85)	1.50	J	1.88	1.31	mg/L			10/13/25 15:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	357		5.00	2.50	mg/L			10/15/25 03:57	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	357		5.00	2.50	mg/L			10/15/25 03:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 03:57	1
Total Dissolved Solids (SM 2540C)	692		50.0	36.0	mg/L			10/13/25 15:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-205

Lab Sample ID: 310-317864-10

Date Collected: 10/09/25 10:29

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.32	J	5.00	2.25	mg/L			10/21/25 13:47	5
Sulfate	15.6		5.00	2.10	mg/L			10/21/25 13:47	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:44	1
Arsenic	0.00209	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:44	1
Calcium	78.0		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:44	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:44	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:44	1
Magnesium	37.2		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:44	1
Potassium	5.81		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:44	1
Sodium	16.7		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:39	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	348		2.06	0.618	mg/L			10/21/25 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.174	J	0.200	0.110	mg/L			10/16/25 21:18	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:48	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/19/25 20:36	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:46	1
Total Organic Carbon (SW846 9060A)	1.50	B	1.00	0.500	mg/L			10/22/25 00:41	1
Total Suspended Solids (USGS I-3765-85)	1.63	J	1.88	1.31	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	357		5.00	2.50	mg/L			10/15/25 04:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	357		5.00	2.50	mg/L			10/15/25 04:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 04:14	1
Total Dissolved Solids (SM 2540C)	336		50.0	36.0	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-206

Lab Sample ID: 310-317864-11

Date Collected: 10/08/25 15:18

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.35	J	5.00	2.25	mg/L			10/21/25 13:58	5
Sulfate	26.8		5.00	2.10	mg/L			10/21/25 13:58	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:51	1
Arsenic	0.00147	J B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:51	1
Calcium	80.4		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:51	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:51	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:51	1
Magnesium	36.7		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:51	1
Potassium	6.50		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:51	1
Sodium	17.3		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:41	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	352		2.06	0.618	mg/L			10/21/25 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.133	J	0.200	0.110	mg/L			10/16/25 21:19	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:41	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:03	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:03	1
Total Organic Carbon (SW846 9060A)	1.50	B	1.00	0.500	mg/L			10/22/25 01:17	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/13/25 15:41	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	373		5.00	2.50	mg/L			10/15/25 04:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	373		5.00	2.50	mg/L			10/15/25 04:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 04:24	1
Total Dissolved Solids (SM 2540C)	380		50.0	36.0	mg/L			10/13/25 15:55	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: LDR-1

Lab Sample ID: 310-317864-12

Date Collected: 10/09/25 11:33

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.9		20.0	9.00	mg/L			10/21/25 14:10	20
Sulfate	1640		20.0	8.40	mg/L			10/21/25 14:10	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:54	1
Arsenic	0.00284	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:54	1
Calcium	447		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:54	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:54	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:54	1
Magnesium	253		2.00	0.600	mg/L		10/20/25 09:00	10/23/25 16:44	4
Potassium	50.4		2.00	0.680	mg/L		10/20/25 09:00	10/23/25 16:44	4
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:54	1
Sodium	28.7		4.00	2.60	mg/L		10/20/25 09:00	10/23/25 16:44	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2160		8.24	2.47	mg/L			10/23/25 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.260		0.200	0.110	mg/L			10/16/25 21:19	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:48	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:05	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:00	1
Total Organic Carbon (SW846 9060A)	1.87	B	1.00	0.500	mg/L			10/22/25 01:53	1
Total Suspended Solids (USGS I-3765-85)	4.33	J	5.00	3.50	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	641		5.00	2.50	mg/L			10/15/25 04:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	641		5.00	2.50	mg/L			10/15/25 04:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 04:35	1
Total Dissolved Solids (SM 2540C)	2760		250	180	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: LDR-2

Lab Sample ID: 310-317864-13

Date Collected: 10/09/25 12:22

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		50.0	22.5	mg/L			10/21/25 14:21	50
Sulfate	1460		50.0	21.0	mg/L			10/21/25 14:21	50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:56	1
Arsenic	0.00290	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:56	1
Calcium	492		2.00	0.760	mg/L		10/20/25 09:00	10/23/25 16:46	4
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:56	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:56	1
Magnesium	269		2.00	0.600	mg/L		10/20/25 09:00	10/23/25 16:46	4
Potassium	58.6		2.00	0.680	mg/L		10/20/25 09:00	10/23/25 16:46	4
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:56	1
Sodium	55.4		4.00	2.60	mg/L		10/20/25 09:00	10/23/25 16:46	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	2340		8.24	2.47	mg/L			10/23/25 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200		0.200	0.110	mg/L			10/16/25 21:21	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:40	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:07	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 22:05	1
Total Organic Carbon (SW846 9060A)	1.82	B	1.00	0.500	mg/L			10/22/25 02:29	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	696		5.00	2.50	mg/L			10/15/25 04:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	696		5.00	2.50	mg/L			10/15/25 04:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 04:47	1
Total Dissolved Solids (SM 2540C)	2800		250	180	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: LDR-3

Lab Sample ID: 310-317864-14

Date Collected: 10/09/25 13:04

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	705		100	45.0	mg/L			10/16/25 21:34	100
Sulfate	2430		100	42.0	mg/L			10/16/25 21:34	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:59	1
Arsenic	0.00358	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:59	1
Calcium	758		3.50	1.33	mg/L		10/20/25 09:00	10/23/25 16:49	7
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:59	1
Lead	0.000587		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:59	1
Magnesium	464		3.50	1.05	mg/L		10/20/25 09:00	10/23/25 16:49	7
Potassium	639		5.00	1.70	mg/L		10/20/25 09:00	10/24/25 15:35	10
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:59	1
Sodium	135		7.00	4.55	mg/L		10/20/25 09:00	10/23/25 16:49	7

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	3800		14.4	4.32	mg/L			10/23/25 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	1.41		0.200	0.110	mg/L			10/16/25 21:21	1
Total Kjeldahl Nitrogen (EPA 351.2)	1.22		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:51	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:13	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 09:51	10/16/25 21:25	1
Total Organic Carbon (SW846 9060A)	1.38	B	1.00	0.500	mg/L			10/22/25 03:05	1
Total Suspended Solids (USGS I-3765-85)	5.60		3.00	2.10	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	683		5.00	2.50	mg/L			10/15/25 05:00	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	683		5.00	2.50	mg/L			10/15/25 05:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 05:00	1
Total Dissolved Solids (SM 2540C)	5250		250	180	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: SW-1

Lab Sample ID: 310-317864-15

Date Collected: 10/09/25 14:00

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.6		20.0	9.00	mg/L			10/16/25 21:46	20
Sulfate	93.6		20.0	8.40	mg/L			10/16/25 21:46	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0446	J	0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 16:02	1
Arsenic	0.00321	B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 16:02	1
Calcium	81.2		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 16:02	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 16:02	1
Lead	0.000427	J	0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 16:02	1
Magnesium	24.7		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 16:02	1
Potassium	183		2.00	0.680	mg/L		10/20/25 09:00	10/23/25 16:57	4
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 16:02	1
Sodium	12.1		4.00	2.60	mg/L		10/20/25 09:00	10/23/25 16:57	4

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	304		2.06	0.618	mg/L			10/21/25 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	<0.200		0.200	0.110	mg/L			10/16/25 21:24	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:40	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:14	1
Total Phosphorus as P (EPA 365.1)	0.127		0.100	0.0680	mg/L		10/16/25 09:51	10/16/25 21:26	1
Total Organic Carbon (SW846 9060A)	7.45		1.00	0.500	mg/L			10/17/25 08:05	1
Total Suspended Solids (USGS I-3765-85)	15.8		3.00	2.10	mg/L			10/14/25 10:49	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	409		5.00	2.50	mg/L			10/15/25 05:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	409		5.00	2.50	mg/L			10/15/25 05:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/15/25 05:12	1
Total Dissolved Solids (SM 2540C)	652		50.0	36.0	mg/L			10/15/25 16:01	1

Client Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-D

Lab Sample ID: 310-317864-16

Date Collected: 10/08/25 15:18

Matrix: Water

Date Received: 10/10/25 16:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.34	J	5.00	2.25	mg/L			10/16/25 21:57	5
Sulfate	26.6		5.00	2.10	mg/L			10/16/25 21:57	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 16:07	1
Arsenic	0.00159	J B	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 16:07	1
Calcium	84.8		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 16:07	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 16:07	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 16:07	1
Magnesium	38.7		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 16:07	1
Potassium	6.56		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 17:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 16:07	1
Sodium	17.3		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 17:02	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	371		2.06	0.618	mg/L			10/21/25 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	0.199	J	0.200	0.110	mg/L			10/16/25 21:24	1
Total Kjeldahl Nitrogen (EPA 351.2)	<1.00		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:47	1
Nitrate Nitrite as N (EPA 353.2)	<0.100		0.100	0.0800	mg/L			10/20/25 22:16	1
Total Phosphorus as P (EPA 365.1)	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 21:59	1
Total Organic Carbon (SW846 9060A)	1.34		1.00	0.500	mg/L			10/17/25 08:41	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.31	mg/L			10/14/25 09:05	1
Total Alkalinity as CaCO3 to pH 4.5 (SM 2320B)	275		5.00	2.50	mg/L			10/16/25 21:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	275		5.00	2.50	mg/L			10/16/25 21:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.00		5.00	2.50	mg/L			10/16/25 21:03	1
Total Dissolved Solids (SM 2540C)	354		50.0	36.0	mg/L			10/14/25 14:30	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-470621/3

Matrix: Water

Analysis Batch: 470621

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			10/16/25 18:29	1
Sulfate	<1.00		1.00	0.420	mg/L			10/16/25 18:29	1

Lab Sample ID: LCS 310-470621/4

Matrix: Water

Analysis Batch: 470621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.896		mg/L		99	90 - 110
Sulfate	10.0	9.973		mg/L		100	90 - 110

Lab Sample ID: MB 310-470922/3

Matrix: Water

Analysis Batch: 470922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00	0.450	mg/L			10/21/25 10:53	1
Sulfate	<1.00		1.00	0.420	mg/L			10/21/25 10:53	1

Lab Sample ID: LCS 310-470922/4

Matrix: Water

Analysis Batch: 470922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.863		mg/L		99	90 - 110
Sulfate	10.0	10.06		mg/L		101	90 - 110

Lab Sample ID: 310-317864-1 MS

Matrix: Water

Analysis Batch: 470922

Client Sample ID: MW-101R -No Purge

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.23	J	25.0	26.52		mg/L		93	80 - 120
Sulfate	346		25.0	359.9	4	mg/L		57	80 - 120

Lab Sample ID: 310-317864-1 MSD

Matrix: Water

Analysis Batch: 470922

Client Sample ID: MW-101R -No Purge

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.23	J	25.0	26.67		mg/L		94	80 - 120	1	15
Sulfate	346		25.0	357.6	4	mg/L		47	80 - 120	1	15

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-470478/1-A

Matrix: Water

Analysis Batch: 471186

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/23/25 18:09	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 18:09	1
Calcium	<0.500		0.500	0.190	mg/L		10/20/25 09:00	10/23/25 18:09	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/23/25 18:09	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/23/25 18:09	1
Magnesium	<0.500		0.500	0.150	mg/L		10/20/25 09:00	10/23/25 18:09	1
Potassium	<0.500		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 18:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/23/25 18:09	1
Sodium	<1.00		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 18:09	1

Lab Sample ID: LCS 310-470478/2-A

Matrix: Water

Analysis Batch: 471186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.2043		mg/L		102	80 - 120
Arsenic	0.200	0.1922		mg/L		96	80 - 120
Calcium	2.00	1.983		mg/L		99	80 - 120
Chromium	0.100	0.1004		mg/L		100	80 - 120
Lead	0.200	0.1938		mg/L		97	80 - 120
Magnesium	2.00	1.900		mg/L		95	80 - 120
Potassium	2.00	1.905		mg/L		95	80 - 120
Selenium	0.400	0.3681		mg/L		92	80 - 120
Sodium	2.00	2.101		mg/L		105	80 - 120

Lab Sample ID: MB 310-470479/1-A

Matrix: Water

Analysis Batch: 470904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0500		0.0500	0.0290	mg/L		10/20/25 09:00	10/21/25 15:13	1
Arsenic	0.0006490	J	0.00200	0.000530	mg/L		10/20/25 09:00	10/21/25 15:13	1
Calcium	<0.500		0.500	0.190	mg/L		10/20/25 09:00	10/21/25 15:13	1
Chromium	<0.00500		0.00500	0.00180	mg/L		10/20/25 09:00	10/21/25 15:13	1
Lead	<0.000500		0.000500	0.000330	mg/L		10/20/25 09:00	10/21/25 15:13	1
Magnesium	<0.500		0.500	0.150	mg/L		10/20/25 09:00	10/21/25 15:13	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/20/25 09:00	10/21/25 15:13	1

Lab Sample ID: MB 310-470479/1-A

Matrix: Water

Analysis Batch: 471187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/20/25 09:00	10/23/25 16:10	1
Potassium	<0.500		0.500	0.170	mg/L		10/20/25 09:00	10/23/25 16:10	1
Sodium	<1.00		1.00	0.650	mg/L		10/20/25 09:00	10/23/25 16:10	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

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

Lab Sample ID: LCS 310-470479/2-A
Matrix: Water
Analysis Batch: 470904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	0.200	0.2043		mg/L		102	80 - 120
Arsenic	0.200	0.1984		mg/L		99	80 - 120
Calcium	2.00	1.793		mg/L		90	80 - 120
Chromium	0.100	0.09770		mg/L		98	80 - 120
Lead	0.200	0.1940		mg/L		97	80 - 120
Magnesium	2.00	2.012		mg/L		101	80 - 120
Selenium	0.400	0.3801		mg/L		95	80 - 120

Lab Sample ID: LCS 310-470479/2-A
Matrix: Water
Analysis Batch: 471187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.1952		mg/L		98	80 - 120
Potassium	2.00	1.835		mg/L		92	80 - 120
Sodium	2.00	2.272		mg/L		114	80 - 120

Lab Sample ID: 310-317864-15 DU
Matrix: Water
Analysis Batch: 470904

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 470479

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	0.0446	J	0.1132	F3	mg/L		87	20
Arsenic	0.00321	B	0.002765		mg/L		15	20
Calcium	81.2		79.88		mg/L		2	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Lead	0.000427	J	0.0004360	J	mg/L		2	20
Magnesium	24.7		23.86		mg/L		4	20
Selenium	<0.00500		<0.00500		mg/L		NC	20

Lab Sample ID: 310-317864-15 DU
Matrix: Water
Analysis Batch: 471187

Client Sample ID: SW-1
Prep Type: Total/NA
Prep Batch: 470479

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	183		187.1		mg/L		2	20
Sodium	12.1		12.34		mg/L		2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-470430/150
Matrix: Water
Analysis Batch: 470430

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.200		0.200	0.110	mg/L			10/16/25 22:33	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 310-470430/70

Matrix: Water

Analysis Batch: 470430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.200		0.200	0.110	mg/L			10/16/25 20:45	1

Lab Sample ID: MB 310-470430/98

Matrix: Water

Analysis Batch: 470430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.200		0.200	0.110	mg/L			10/16/25 21:07	1

Lab Sample ID: LCS 310-470430/151

Matrix: Water

Analysis Batch: 470430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.65	5.410		mg/L		96	90 - 110

Lab Sample ID: LCS 310-470430/71

Matrix: Water

Analysis Batch: 470430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.65	5.463		mg/L		97	90 - 110

Lab Sample ID: LCS 310-470430/99

Matrix: Water

Analysis Batch: 470430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.65	5.324		mg/L		94	90 - 110

Lab Sample ID: 310-317864-2 MS

Matrix: Water

Analysis Batch: 470430

Client Sample ID: MW-102R - No Purge

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	<0.200	F1	1.00	0.8798	F1	mg/L		88	90 - 110

Lab Sample ID: 310-317864-2 MSD

Matrix: Water

Analysis Batch: 470430

Client Sample ID: MW-102R - No Purge

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	<0.200	F1	1.00	0.9206		mg/L		92	90 - 110	5	23

Lab Sample ID: MB 310-470890/13

Matrix: Water

Analysis Batch: 470890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	<0.200		0.200	0.110	mg/L			10/21/25 20:13	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 310-470890/11
Matrix: Water
Analysis Batch: 470890

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	5.65	5.437		mg/L		96	90 - 110

Lab Sample ID: 310-317864-5 MS
Matrix: Water
Analysis Batch: 470890

Client Sample ID: MW-103R - Recharge
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia as N	<0.200	F1	1.00	0.8255	F1	mg/L		82	90 - 110

Lab Sample ID: 310-317864-5 MSD
Matrix: Water
Analysis Batch: 470890

Client Sample ID: MW-103R - Recharge
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N	<0.200	F1	1.00	0.8702	F1	mg/L		87	90 - 110	5	23

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-469941/1-A
Matrix: Water
Analysis Batch: 470088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 469941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		10/14/25 05:43	10/14/25 14:15	1

Lab Sample ID: LCS 310-469941/2-A
Matrix: Water
Analysis Batch: 470088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 469941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	4.197		mg/L		105	90 - 110

Lab Sample ID: MB 310-470111/1-A
Matrix: Water
Analysis Batch: 470253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		10/15/25 07:12	10/15/25 16:31	1

Lab Sample ID: LCS 310-470111/2-A
Matrix: Water
Analysis Batch: 470253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.730		mg/L		93	90 - 110

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MB 310-470112/1-A
Matrix: Water
Analysis Batch: 470253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.620	mg/L		10/15/25 07:15	10/15/25 16:42	1

Lab Sample ID: LCS 310-470112/2-A
Matrix: Water
Analysis Batch: 470253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	4.101		mg/L		102	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 310-470558/52
Matrix: Water
Analysis Batch: 470558

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			10/19/25 19:52	1

Lab Sample ID: LCS 310-470558/53
Matrix: Water
Analysis Batch: 470558

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.19	2.386		mg/L		109	90 - 110

Lab Sample ID: MB 310-470741/16
Matrix: Water
Analysis Batch: 470741

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			10/20/25 18:17	1

Lab Sample ID: MB 310-470741/59
Matrix: Water
Analysis Batch: 470741

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	<0.100		0.100	0.0800	mg/L			10/20/25 23:19	1

Lab Sample ID: LCS 310-470741/17
Matrix: Water
Analysis Batch: 470741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.19	2.155		mg/L		98	90 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 310-470741/60
Matrix: Water
Analysis Batch: 470741

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	2.19	2.147		mg/L		98	90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 310-470101/1-A
Matrix: Water
Analysis Batch: 470255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		10/14/25 18:00	10/15/25 18:27	1

Lab Sample ID: LCS 310-470101/2-A
Matrix: Water
Analysis Batch: 470255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.999	0.9527		mg/L		95	90 - 110

Lab Sample ID: MB 310-470311/1-A
Matrix: Water
Analysis Batch: 470431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		10/16/25 09:51	10/16/25 21:19	1

Lab Sample ID: LCS 310-470311/2-A
Matrix: Water
Analysis Batch: 470431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.999	1.013		mg/L		101	90 - 110

Lab Sample ID: MB 310-470318/1-A
Matrix: Water
Analysis Batch: 470431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		10/16/25 10:10	10/16/25 21:58	1

Lab Sample ID: LCS 310-470318/2-A
Matrix: Water
Analysis Batch: 470431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.999	0.9974		mg/L		100	90 - 110

QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 310-317864-16 MS

Matrix: Water

Analysis Batch: 470431

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 470318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	<0.100		0.999	0.9868		mg/L		99	90 - 110

Lab Sample ID: 310-317864-16 MSD

Matrix: Water

Analysis Batch: 470431

Client Sample ID: MW-D

Prep Type: Total/NA

Prep Batch: 470318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	<0.100		0.999	1.012		mg/L		101	90 - 110	2	14

Lab Sample ID: MB 310-470335/1-A

Matrix: Water

Analysis Batch: 470431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 470335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.100		0.100	0.0680	mg/L		10/16/25 10:26	10/16/25 22:09	1

Lab Sample ID: LCS 310-470335/2-A

Matrix: Water

Analysis Batch: 470431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 470335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	0.999	1.033		mg/L		103	90 - 110

Lab Sample ID: 310-317864-2 MS

Matrix: Water

Analysis Batch: 470431

Client Sample ID: MW-102R - No Purge

Prep Type: Total/NA

Prep Batch: 470335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Phosphorus as P	<0.100		0.999	1.026		mg/L		103	90 - 110

Lab Sample ID: 310-317864-2 MSD

Matrix: Water

Analysis Batch: 470431

Client Sample ID: MW-102R - No Purge

Prep Type: Total/NA

Prep Batch: 470335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	<0.100		0.999	1.016		mg/L		102	90 - 110	1	14

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 310-470549/11

Matrix: Water

Analysis Batch: 470549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			10/16/25 16:29	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 310-470549/12
Matrix: Water
Analysis Batch: 470549

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.42		mg/L		104	85 - 115

Lab Sample ID: MB 310-471051/11
Matrix: Water
Analysis Batch: 471051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.5308	J	1.00	0.500	mg/L			10/21/25 21:41	1

Lab Sample ID: LCS 310-471051/39
Matrix: Water
Analysis Batch: 471051

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.22		mg/L		102	85 - 115

Lab Sample ID: 310-317864-8 DU
Matrix: Water
Analysis Batch: 471051

Client Sample ID: MW-203R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Organic Carbon	1.66	B	1.718		mg/L		3	15

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-469910/1
Matrix: Water
Analysis Batch: 469910

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			10/13/25 15:41	1

Lab Sample ID: LCS 310-469910/2
Matrix: Water
Analysis Batch: 469910

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	105.0		mg/L		105	82 - 117

Lab Sample ID: MB 310-469968/1
Matrix: Water
Analysis Batch: 469968

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			10/14/25 09:05	1

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-469968/2

Matrix: Water

Analysis Batch: 469968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	107.0		mg/L		107	82 - 117

Lab Sample ID: MB 310-470002/1

Matrix: Water

Analysis Batch: 470002

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.50	mg/L			10/14/25 10:49	1

Lab Sample ID: LCS 310-470002/2

Matrix: Water

Analysis Batch: 470002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	82 - 117

Method: SM 2320B - Alkalinity

Lab Sample ID: LCS 310-470113/2

Matrix: Water

Analysis Batch: 470113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO ₃ to pH 4.5	1000	1011		mg/L		101	85 - 115

Lab Sample ID: LCS 310-470113/25

Matrix: Water

Analysis Batch: 470113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO ₃ to pH 4.5	1000	998.9		mg/L		100	85 - 115

Lab Sample ID: LCS 310-470528/2

Matrix: Water

Analysis Batch: 470528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO ₃ to pH 4.5	1000	1023		mg/L		102	85 - 115

Lab Sample ID: LCS 310-470528/48

Matrix: Water

Analysis Batch: 470528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO ₃ to pH 4.5	1000	1037		mg/L		104	85 - 115

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

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

Lab Sample ID: MB 310-469911/1
Matrix: Water
Analysis Batch: 469911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			10/13/25 15:55	1

Lab Sample ID: LCS 310-469911/2
Matrix: Water
Analysis Batch: 469911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1000		mg/L		100	89 - 110

Lab Sample ID: MB 310-470064/1
Matrix: Water
Analysis Batch: 470064

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			10/14/25 14:30	1

Lab Sample ID: LCS 310-470064/2
Matrix: Water
Analysis Batch: 470064

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1046		mg/L		105	89 - 110

Lab Sample ID: MB 310-470096/1
Matrix: Water
Analysis Batch: 470096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			10/14/25 17:17	1

Lab Sample ID: LCS 310-470096/2
Matrix: Water
Analysis Batch: 470096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	990.0		mg/L		99	89 - 110

Lab Sample ID: MB 310-470219/1
Matrix: Water
Analysis Batch: 470219

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			10/15/25 13:32	1

Lab Sample ID: LCS 310-470219/2
Matrix: Water
Analysis Batch: 470219

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	978.0		mg/L		98	89 - 110

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QC Sample Results

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

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

Lab Sample ID: MB 310-470249/1						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 470249									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<50.0		50.0	36.0	mg/L			10/15/25 16:01	1

Lab Sample ID: LCS 310-470249/2						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 470249									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	1000	888.0		mg/L		89	89 - 110		

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

HPLC/IC

Analysis Batch: 470621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-14	LDR-3	Total/NA	Water	9056A	
310-317864-15	SW-1	Total/NA	Water	9056A	
310-317864-16	MW-D	Total/NA	Water	9056A	
MB 310-470621/3	Method Blank	Total/NA	Water	9056A	
LCS 310-470621/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 470922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	9056A	
310-317864-2	MW-102R - No Purge	Total/NA	Water	9056A	
310-317864-2	MW-102R - No Purge	Total/NA	Water	9056A	
310-317864-3	MW-103R - No Purge	Total/NA	Water	9056A	
310-317864-3	MW-103R - No Purge	Total/NA	Water	9056A	
310-317864-4	MW-101R - Recharge	Total/NA	Water	9056A	
310-317864-5	MW-103R - Recharge	Total/NA	Water	9056A	
310-317864-5	MW-103R - Recharge	Total/NA	Water	9056A	
310-317864-6	MW-201	Total/NA	Water	9056A	
310-317864-7	MW-202R	Total/NA	Water	9056A	
310-317864-8	MW-203R	Total/NA	Water	9056A	
310-317864-9	MW-204	Total/NA	Water	9056A	
310-317864-10	MW-205	Total/NA	Water	9056A	
310-317864-11	MW-206	Total/NA	Water	9056A	
310-317864-12	LDR-1	Total/NA	Water	9056A	
310-317864-13	LDR-2	Total/NA	Water	9056A	
MB 310-470922/3	Method Blank	Total/NA	Water	9056A	
LCS 310-470922/4	Lab Control Sample	Total/NA	Water	9056A	
310-317864-1 MS	MW-101R -No Purge	Total/NA	Water	9056A	
310-317864-1 MSD	MW-101R -No Purge	Total/NA	Water	9056A	

Metals

Analysis Batch: 469826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	SM 2340B	
310-317864-2	MW-102R - No Purge	Total/NA	Water	SM 2340B	
310-317864-3	MW-103R - No Purge	Total/NA	Water	SM 2340B	
310-317864-4	MW-101R - Recharge	Total/NA	Water	SM 2340B	
310-317864-5	MW-103R - Recharge	Total/NA	Water	SM 2340B	
310-317864-6	MW-201	Total/NA	Water	SM 2340B	
310-317864-7	MW-202R	Total/NA	Water	SM 2340B	
310-317864-8	MW-203R	Total/NA	Water	SM 2340B	
310-317864-9	MW-204	Total/NA	Water	SM 2340B	
310-317864-10	MW-205	Total/NA	Water	SM 2340B	
310-317864-11	MW-206	Total/NA	Water	SM 2340B	
310-317864-12	LDR-1	Total/NA	Water	SM 2340B	
310-317864-13	LDR-2	Total/NA	Water	SM 2340B	
310-317864-14	LDR-3	Total/NA	Water	SM 2340B	
310-317864-15	SW-1	Total/NA	Water	SM 2340B	
310-317864-16	MW-D	Total/NA	Water	SM 2340B	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Metals

Prep Batch: 470478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	3005A	
310-317864-2	MW-102R - No Purge	Total/NA	Water	3005A	
310-317864-3	MW-103R - No Purge	Total/NA	Water	3005A	
310-317864-4	MW-101R - Recharge	Total/NA	Water	3005A	
310-317864-5	MW-103R - Recharge	Total/NA	Water	3005A	
310-317864-6	MW-201	Total/NA	Water	3005A	
MB 310-470478/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-470478/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 470479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-7	MW-202R	Total/NA	Water	3005A	
310-317864-8	MW-203R	Total/NA	Water	3005A	
310-317864-9	MW-204	Total/NA	Water	3005A	
310-317864-10	MW-205	Total/NA	Water	3005A	
310-317864-11	MW-206	Total/NA	Water	3005A	
310-317864-12	LDR-1	Total/NA	Water	3005A	
310-317864-13	LDR-2	Total/NA	Water	3005A	
310-317864-14	LDR-3	Total/NA	Water	3005A	
310-317864-15	SW-1	Total/NA	Water	3005A	
310-317864-16	MW-D	Total/NA	Water	3005A	
MB 310-470479/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-470479/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-317864-15 DU	SW-1	Total/NA	Water	3005A	

Analysis Batch: 470904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-7	MW-202R	Total/NA	Water	6020B	470479
310-317864-8	MW-203R	Total/NA	Water	6020B	470479
310-317864-9	MW-204	Total/NA	Water	6020B	470479
310-317864-10	MW-205	Total/NA	Water	6020B	470479
310-317864-11	MW-206	Total/NA	Water	6020B	470479
310-317864-12	LDR-1	Total/NA	Water	6020B	470479
310-317864-13	LDR-2	Total/NA	Water	6020B	470479
310-317864-14	LDR-3	Total/NA	Water	6020B	470479
310-317864-15	SW-1	Total/NA	Water	6020B	470479
310-317864-16	MW-D	Total/NA	Water	6020B	470479
MB 310-470479/1-A	Method Blank	Total/NA	Water	6020B	470479
LCS 310-470479/2-A	Lab Control Sample	Total/NA	Water	6020B	470479
310-317864-15 DU	SW-1	Total/NA	Water	6020B	470479

Analysis Batch: 471186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	6020B	470478
310-317864-2	MW-102R - No Purge	Total/NA	Water	6020B	470478
310-317864-3	MW-103R - No Purge	Total/NA	Water	6020B	470478
310-317864-4	MW-101R - Recharge	Total/NA	Water	6020B	470478
310-317864-5	MW-103R - Recharge	Total/NA	Water	6020B	470478
310-317864-6	MW-201	Total/NA	Water	6020B	470478
MB 310-470478/1-A	Method Blank	Total/NA	Water	6020B	470478
LCS 310-470478/2-A	Lab Control Sample	Total/NA	Water	6020B	470478

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Metals

Analysis Batch: 471187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-7	MW-202R	Total/NA	Water	6020B	470479
310-317864-8	MW-203R	Total/NA	Water	6020B	470479
310-317864-9	MW-204	Total/NA	Water	6020B	470479
310-317864-10	MW-205	Total/NA	Water	6020B	470479
310-317864-11	MW-206	Total/NA	Water	6020B	470479
310-317864-12	LDR-1	Total/NA	Water	6020B	470479
310-317864-13	LDR-2	Total/NA	Water	6020B	470479
310-317864-14	LDR-3	Total/NA	Water	6020B	470479
310-317864-15	SW-1	Total/NA	Water	6020B	470479
310-317864-16	MW-D	Total/NA	Water	6020B	470479
MB 310-470479/1-A	Method Blank	Total/NA	Water	6020B	470479
LCS 310-470479/2-A	Lab Control Sample	Total/NA	Water	6020B	470479
310-317864-15 DU	SW-1	Total/NA	Water	6020B	470479

Analysis Batch: 471310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	6020B	470478
310-317864-2	MW-102R - No Purge	Total/NA	Water	6020B	470478
310-317864-3	MW-103R - No Purge	Total/NA	Water	6020B	470478
310-317864-4	MW-101R - Recharge	Total/NA	Water	6020B	470478
310-317864-5	MW-103R - Recharge	Total/NA	Water	6020B	470478
310-317864-6	MW-201	Total/NA	Water	6020B	470478
310-317864-14	LDR-3	Total/NA	Water	6020B	470479

General Chemistry

Analysis Batch: 469910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-9	MW-204	Total/NA	Water	I-3765-85	
310-317864-11	MW-206	Total/NA	Water	I-3765-85	
MB 310-469910/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-469910/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 469911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-9	MW-204	Total/NA	Water	SM 2540C	
310-317864-11	MW-206	Total/NA	Water	SM 2540C	
MB 310-469911/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-469911/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 469941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	351.2	
310-317864-2	MW-102R - No Purge	Total/NA	Water	351.2	
310-317864-3	MW-103R - No Purge	Total/NA	Water	351.2	
310-317864-4	MW-101R - Recharge	Total/NA	Water	351.2	
310-317864-5	MW-103R - Recharge	Total/NA	Water	351.2	
MB 310-469941/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-469941/2-A	Lab Control Sample	Total/NA	Water	351.2	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry

Analysis Batch: 469968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	I-3765-85	
310-317864-2	MW-102R - No Purge	Total/NA	Water	I-3765-85	
310-317864-3	MW-103R - No Purge	Total/NA	Water	I-3765-85	
310-317864-7	MW-202R	Total/NA	Water	I-3765-85	
310-317864-8	MW-203R	Total/NA	Water	I-3765-85	
310-317864-16	MW-D	Total/NA	Water	I-3765-85	
MB 310-469968/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-469968/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 470002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-4	MW-101R - Recharge	Total/NA	Water	I-3765-85	
310-317864-5	MW-103R - Recharge	Total/NA	Water	I-3765-85	
310-317864-6	MW-201	Total/NA	Water	I-3765-85	
310-317864-10	MW-205	Total/NA	Water	I-3765-85	
310-317864-12	LDR-1	Total/NA	Water	I-3765-85	
310-317864-13	LDR-2	Total/NA	Water	I-3765-85	
310-317864-14	LDR-3	Total/NA	Water	I-3765-85	
310-317864-15	SW-1	Total/NA	Water	I-3765-85	
MB 310-470002/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-470002/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 470064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	SM 2540C	
310-317864-2	MW-102R - No Purge	Total/NA	Water	SM 2540C	
310-317864-8	MW-203R	Total/NA	Water	SM 2540C	
310-317864-16	MW-D	Total/NA	Water	SM 2540C	
MB 310-470064/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470064/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 470088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	351.2	469941
310-317864-2	MW-102R - No Purge	Total/NA	Water	351.2	469941
310-317864-3	MW-103R - No Purge	Total/NA	Water	351.2	469941
310-317864-4	MW-101R - Recharge	Total/NA	Water	351.2	469941
310-317864-5	MW-103R - Recharge	Total/NA	Water	351.2	469941
MB 310-469941/1-A	Method Blank	Total/NA	Water	351.2	469941
LCS 310-469941/2-A	Lab Control Sample	Total/NA	Water	351.2	469941

Analysis Batch: 470096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-3	MW-103R - No Purge	Total/NA	Water	SM 2540C	
310-317864-7	MW-202R	Total/NA	Water	SM 2540C	
MB 310-470096/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470096/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Prep Batch: 470101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-5	MW-103R - Recharge	Total/NA	Water	365.2/365.3/365	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry (Continued)

Prep Batch: 470101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-470101/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-470101/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 470111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-7	MW-202R	Total/NA	Water	351.2	
310-317864-9	MW-204	Total/NA	Water	351.2	
310-317864-11	MW-206	Total/NA	Water	351.2	
310-317864-13	LDR-2	Total/NA	Water	351.2	
310-317864-15	SW-1	Total/NA	Water	351.2	
MB 310-470111/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-470111/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 470112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-6	MW-201	Total/NA	Water	351.2	
310-317864-8	MW-203R	Total/NA	Water	351.2	
310-317864-10	MW-205	Total/NA	Water	351.2	
310-317864-12	LDR-1	Total/NA	Water	351.2	
310-317864-14	LDR-3	Total/NA	Water	351.2	
310-317864-16	MW-D	Total/NA	Water	351.2	
MB 310-470112/1-A	Method Blank	Total/NA	Water	351.2	
LCS 310-470112/2-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 470113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	SM 2320B	
310-317864-2	MW-102R - No Purge	Total/NA	Water	SM 2320B	
310-317864-8	MW-203R	Total/NA	Water	SM 2320B	
310-317864-9	MW-204	Total/NA	Water	SM 2320B	
310-317864-10	MW-205	Total/NA	Water	SM 2320B	
310-317864-11	MW-206	Total/NA	Water	SM 2320B	
310-317864-12	LDR-1	Total/NA	Water	SM 2320B	
310-317864-13	LDR-2	Total/NA	Water	SM 2320B	
310-317864-14	LDR-3	Total/NA	Water	SM 2320B	
310-317864-15	SW-1	Total/NA	Water	SM 2320B	
LCS 310-470113/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 310-470113/25	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 470219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-4	MW-101R - Recharge	Total/NA	Water	SM 2540C	
310-317864-5	MW-103R - Recharge	Total/NA	Water	SM 2540C	
MB 310-470219/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470219/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 470249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-6	MW-201	Total/NA	Water	SM 2540C	
310-317864-10	MW-205	Total/NA	Water	SM 2540C	
310-317864-12	LDR-1	Total/NA	Water	SM 2540C	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry (Continued)

Analysis Batch: 470249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-13	LDR-2	Total/NA	Water	SM 2540C	
310-317864-14	LDR-3	Total/NA	Water	SM 2540C	
310-317864-15	SW-1	Total/NA	Water	SM 2540C	
MB 310-470249/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-470249/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 470253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-6	MW-201	Total/NA	Water	351.2	470112
310-317864-7	MW-202R	Total/NA	Water	351.2	470111
310-317864-8	MW-203R	Total/NA	Water	351.2	470112
310-317864-9	MW-204	Total/NA	Water	351.2	470111
310-317864-10	MW-205	Total/NA	Water	351.2	470112
310-317864-11	MW-206	Total/NA	Water	351.2	470111
310-317864-12	LDR-1	Total/NA	Water	351.2	470112
310-317864-13	LDR-2	Total/NA	Water	351.2	470111
310-317864-14	LDR-3	Total/NA	Water	351.2	470112
310-317864-15	SW-1	Total/NA	Water	351.2	470111
310-317864-16	MW-D	Total/NA	Water	351.2	470112
MB 310-470111/1-A	Method Blank	Total/NA	Water	351.2	470111
MB 310-470112/1-A	Method Blank	Total/NA	Water	351.2	470112
LCS 310-470111/2-A	Lab Control Sample	Total/NA	Water	351.2	470111
LCS 310-470112/2-A	Lab Control Sample	Total/NA	Water	351.2	470112

Analysis Batch: 470255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-5	MW-103R - Recharge	Total/NA	Water	365.1	470101
MB 310-470101/1-A	Method Blank	Total/NA	Water	365.1	470101
LCS 310-470101/2-A	Lab Control Sample	Total/NA	Water	365.1	470101

Prep Batch: 470311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-14	LDR-3	Total/NA	Water	365.2/365.3/365	
310-317864-15	SW-1	Total/NA	Water	365.2/365.3/365	
MB 310-470311/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-470311/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Prep Batch: 470318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-6	MW-201	Total/NA	Water	365.2/365.3/365	
310-317864-7	MW-202R	Total/NA	Water	365.2/365.3/365	
310-317864-8	MW-203R	Total/NA	Water	365.2/365.3/365	
310-317864-9	MW-204	Total/NA	Water	365.2/365.3/365	
310-317864-11	MW-206	Total/NA	Water	365.2/365.3/365	
310-317864-12	LDR-1	Total/NA	Water	365.2/365.3/365	
310-317864-13	LDR-2	Total/NA	Water	365.2/365.3/365	
310-317864-16	MW-D	Total/NA	Water	365.2/365.3/365	
MB 310-470318/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-470318/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
310-317864-16 MS	MW-D	Total/NA	Water	365.2/365.3/365	
310-317864-16 MSD	MW-D	Total/NA	Water	365.2/365.3/365	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry

Prep Batch: 470335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	365.2/365.3/365	
310-317864-2	MW-102R - No Purge	Total/NA	Water	365.2/365.3/365	
310-317864-3	MW-103R - No Purge	Total/NA	Water	365.2/365.3/365	
310-317864-4	MW-101R - Recharge	Total/NA	Water	365.2/365.3/365	
310-317864-10	MW-205	Total/NA	Water	365.2/365.3/365	
MB 310-470335/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 310-470335/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
310-317864-2 MS	MW-102R - No Purge	Total/NA	Water	365.2/365.3/365	
310-317864-2 MSD	MW-102R - No Purge	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 470430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	350.1	
310-317864-2	MW-102R - No Purge	Total/NA	Water	350.1	
310-317864-3	MW-103R - No Purge	Total/NA	Water	350.1	
310-317864-4	MW-101R - Recharge	Total/NA	Water	350.1	
310-317864-6	MW-201	Total/NA	Water	350.1	
310-317864-7	MW-202R	Total/NA	Water	350.1	
310-317864-8	MW-203R	Total/NA	Water	350.1	
310-317864-9	MW-204	Total/NA	Water	350.1	
310-317864-10	MW-205	Total/NA	Water	350.1	
310-317864-11	MW-206	Total/NA	Water	350.1	
310-317864-12	LDR-1	Total/NA	Water	350.1	
310-317864-13	LDR-2	Total/NA	Water	350.1	
310-317864-14	LDR-3	Total/NA	Water	350.1	
310-317864-15	SW-1	Total/NA	Water	350.1	
310-317864-16	MW-D	Total/NA	Water	350.1	
MB 310-470430/150	Method Blank	Total/NA	Water	350.1	
MB 310-470430/70	Method Blank	Total/NA	Water	350.1	
MB 310-470430/98	Method Blank	Total/NA	Water	350.1	
LCS 310-470430/151	Lab Control Sample	Total/NA	Water	350.1	
LCS 310-470430/71	Lab Control Sample	Total/NA	Water	350.1	
LCS 310-470430/99	Lab Control Sample	Total/NA	Water	350.1	
310-317864-2 MS	MW-102R - No Purge	Total/NA	Water	350.1	
310-317864-2 MSD	MW-102R - No Purge	Total/NA	Water	350.1	

Analysis Batch: 470431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	365.1	470335
310-317864-2	MW-102R - No Purge	Total/NA	Water	365.1	470335
310-317864-3	MW-103R - No Purge	Total/NA	Water	365.1	470335
310-317864-4	MW-101R - Recharge	Total/NA	Water	365.1	470335
310-317864-6	MW-201	Total/NA	Water	365.1	470318
310-317864-7	MW-202R	Total/NA	Water	365.1	470318
310-317864-8	MW-203R	Total/NA	Water	365.1	470318
310-317864-9	MW-204	Total/NA	Water	365.1	470318
310-317864-10	MW-205	Total/NA	Water	365.1	470335
310-317864-11	MW-206	Total/NA	Water	365.1	470318
310-317864-12	LDR-1	Total/NA	Water	365.1	470318
310-317864-13	LDR-2	Total/NA	Water	365.1	470318
310-317864-14	LDR-3	Total/NA	Water	365.1	470311

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry (Continued)

Analysis Batch: 470431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-15	SW-1	Total/NA	Water	365.1	470311
310-317864-16	MW-D	Total/NA	Water	365.1	470318
MB 310-470311/1-A	Method Blank	Total/NA	Water	365.1	470311
MB 310-470318/1-A	Method Blank	Total/NA	Water	365.1	470318
MB 310-470335/1-A	Method Blank	Total/NA	Water	365.1	470335
LCS 310-470311/2-A	Lab Control Sample	Total/NA	Water	365.1	470311
LCS 310-470318/2-A	Lab Control Sample	Total/NA	Water	365.1	470318
LCS 310-470335/2-A	Lab Control Sample	Total/NA	Water	365.1	470335
310-317864-2 MS	MW-102R - No Purge	Total/NA	Water	365.1	470335
310-317864-2 MSD	MW-102R - No Purge	Total/NA	Water	365.1	470335
310-317864-16 MS	MW-D	Total/NA	Water	365.1	470318
310-317864-16 MSD	MW-D	Total/NA	Water	365.1	470318

Analysis Batch: 470528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-3	MW-103R - No Purge	Total/NA	Water	SM 2320B	
310-317864-4	MW-101R - Recharge	Total/NA	Water	SM 2320B	
310-317864-5	MW-103R - Recharge	Total/NA	Water	SM 2320B	
310-317864-6	MW-201	Total/NA	Water	SM 2320B	
310-317864-7	MW-202R	Total/NA	Water	SM 2320B	
310-317864-16	MW-D	Total/NA	Water	SM 2320B	
LCS 310-470528/2	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 310-470528/48	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 470549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	9060A	
310-317864-2	MW-102R - No Purge	Total/NA	Water	9060A	
310-317864-3	MW-103R - No Purge	Total/NA	Water	9060A	
310-317864-4	MW-101R - Recharge	Total/NA	Water	9060A	
310-317864-5	MW-103R - Recharge	Total/NA	Water	9060A	
310-317864-6	MW-201	Total/NA	Water	9060A	
310-317864-7	MW-202R	Total/NA	Water	9060A	
310-317864-15	SW-1	Total/NA	Water	9060A	
310-317864-16	MW-D	Total/NA	Water	9060A	
MB 310-470549/11	Method Blank	Total/NA	Water	9060A	
LCS 310-470549/12	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 470558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-1	MW-101R -No Purge	Total/NA	Water	353.2	
310-317864-2	MW-102R - No Purge	Total/NA	Water	353.2	
310-317864-3	MW-103R - No Purge	Total/NA	Water	353.2	
310-317864-4	MW-101R - Recharge	Total/NA	Water	353.2	
310-317864-5	MW-103R - Recharge	Total/NA	Water	353.2	
310-317864-6	MW-201	Total/NA	Water	353.2	
310-317864-7	MW-202R	Total/NA	Water	353.2	
310-317864-8	MW-203R	Total/NA	Water	353.2	
310-317864-9	MW-204	Total/NA	Water	353.2	
310-317864-10	MW-205	Total/NA	Water	353.2	
MB 310-470558/52	Method Blank	Total/NA	Water	353.2	

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

General Chemistry (Continued)

Analysis Batch: 470558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-470558/53	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 470741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-11	MW-206	Total/NA	Water	353.2	
310-317864-12	LDR-1	Total/NA	Water	353.2	
310-317864-13	LDR-2	Total/NA	Water	353.2	
310-317864-14	LDR-3	Total/NA	Water	353.2	
310-317864-15	SW-1	Total/NA	Water	353.2	
310-317864-16	MW-D	Total/NA	Water	353.2	
MB 310-470741/16	Method Blank	Total/NA	Water	353.2	
MB 310-470741/59	Method Blank	Total/NA	Water	353.2	
LCS 310-470741/17	Lab Control Sample	Total/NA	Water	353.2	
LCS 310-470741/60	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 470890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-5	MW-103R - Recharge	Total/NA	Water	350.1	
MB 310-470890/13	Method Blank	Total/NA	Water	350.1	
LCS 310-470890/11	Lab Control Sample	Total/NA	Water	350.1	
310-317864-5 MS	MW-103R - Recharge	Total/NA	Water	350.1	
310-317864-5 MSD	MW-103R - Recharge	Total/NA	Water	350.1	

Analysis Batch: 471051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-317864-8	MW-203R	Total/NA	Water	9060A	
310-317864-9	MW-204	Total/NA	Water	9060A	
310-317864-10	MW-205	Total/NA	Water	9060A	
310-317864-11	MW-206	Total/NA	Water	9060A	
310-317864-12	LDR-1	Total/NA	Water	9060A	
310-317864-13	LDR-2	Total/NA	Water	9060A	
310-317864-14	LDR-3	Total/NA	Water	9060A	
MB 310-471051/11	Method Blank	Total/NA	Water	9060A	
LCS 310-471051/39	Lab Control Sample	Total/NA	Water	9060A	
310-317864-8 DU	MW-203R	Total/NA	Water	9060A	

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-101R -No Purge

Lab Sample ID: 310-317864-1

Date Collected: 10/08/25 14:28

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 11:16
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:14
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471310	NFT2	EET CF	10/24/25 14:57
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/24/25 14:57
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:07
Total/NA	Prep	351.2			469941	W9YR	EET CF	10/14/25 05:43
Total/NA	Analysis	351.2		1	470088	WZC8	EET CF	10/14/25 14:20
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:05
Total/NA	Prep	365.2/365.3/365			470335	HE7K	EET CF	10/16/25 10:26
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:12
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 02:41
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 01:05
Total/NA	Analysis	SM 2540C		1	470064	TGN5	EET CF	10/14/25 14:30

Client Sample ID: MW-102R -No Purge

Lab Sample ID: 310-317864-2

Date Collected: 10/08/25 13:56

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 16:17
Total/NA	Analysis	9056A		20	470922	ZRI4	EET CF	10/21/25 16:29
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:17
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471310	NFT2	EET CF	10/24/25 15:00
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/24/25 15:00
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:09
Total/NA	Prep	351.2			469941	W9YR	EET CF	10/14/25 05:43
Total/NA	Analysis	351.2		1	470088	WZC8	EET CF	10/14/25 14:20
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:18
Total/NA	Prep	365.2/365.3/365			470335	HE7K	EET CF	10/16/25 10:26
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:10
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 03:17
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 03:35
Total/NA	Analysis	SM 2540C		1	470064	TGN5	EET CF	10/14/25 14:30

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-103R - No Purge

Lab Sample ID: 310-317864-3

Date Collected: 10/08/25 13:22

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	470922	ZRI4	EET CF	10/21/25 12:02
Total/NA	Analysis	9056A		10	470922	ZRI4	EET CF	10/21/25 16:40
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:20
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471310	NFT2	EET CF	10/24/25 15:03
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/24/25 15:03
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:12
Total/NA	Prep	351.2			469941	W9YR	EET CF	10/14/25 05:43
Total/NA	Analysis	351.2		1	470088	WZC8	EET CF	10/14/25 14:19
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:20
Total/NA	Prep	365.2/365.3/365			470335	HE7K	EET CF	10/16/25 10:26
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:39
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 03:53
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/17/25 00:29
Total/NA	Analysis	SM 2540C		1	470096	TGN5	EET CF	10/14/25 17:17

Client Sample ID: MW-101R - Recharge

Lab Sample ID: 310-317864-4

Date Collected: 10/09/25 09:50

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 12:14
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:29
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471310	NFT2	EET CF	10/24/25 15:06
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/23/25 19:29
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:14
Total/NA	Prep	351.2			469941	W9YR	EET CF	10/14/25 05:43
Total/NA	Analysis	351.2		1	470088	WZC8	EET CF	10/14/25 14:19
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:21
Total/NA	Prep	365.2/365.3/365			470335	HE7K	EET CF	10/16/25 10:26
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:40
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 04:29
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/17/25 00:40
Total/NA	Analysis	SM 2540C		1	470219	TGN5	EET CF	10/15/25 13:32

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-103R - Recharge

Lab Sample ID: 310-317864-5

Date Collected: 10/09/25 09:15

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		10	470922	ZRI4	EET CF	10/21/25 12:25
Total/NA	Analysis	9056A		20	470922	ZRI4	EET CF	10/21/25 16:52
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:31
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471310	NFT2	EET CF	10/24/25 15:09
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/24/25 15:09
Total/NA	Analysis	350.1		1	470890	ZJX4	EET CF	10/21/25 20:15
Total/NA	Prep	351.2			469941	W9YR	EET CF	10/14/25 05:43
Total/NA	Analysis	351.2		1	470088	WZC8	EET CF	10/14/25 14:19
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:23
Total/NA	Prep	365.2/365.3/365			470101	T5AC	EET CF	10/14/25 18:00
Total/NA	Analysis	365.1		1	470255	ZJX4	EET CF	10/15/25 18:34
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 05:05
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/17/25 00:50
Total/NA	Analysis	SM 2540C		1	470219	TGN5	EET CF	10/15/25 13:32

Client Sample ID: MW-201

Lab Sample ID: 310-317864-6

Date Collected: 10/09/25 11:12

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 12:37
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471186	NFT2	EET CF	10/23/25 19:34
Total/NA	Prep	3005A			470478	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471310	NFT2	EET CF	10/24/25 15:12
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/23/25 19:34
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:14
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:49
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:25
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:06
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 06:53
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/17/25 01:01
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-202R

Lab Sample ID: 310-317864-7

Date Collected: 10/08/25 17:00

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 13:12
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:36
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 16:31
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 15:36
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:16
Total/NA	Prep	351.2			470111	W9YR	EET CF	10/15/25 07:12
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:41
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:27
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:04
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 07:29
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/17/25 01:11
Total/NA	Analysis	SM 2540C		1	470096	TGN5	EET CF	10/14/25 17:17

Client Sample ID: MW-203R

Lab Sample ID: 310-317864-8

Date Collected: 10/08/25 15:52

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 13:23
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:39
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 16:34
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 15:39
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:16
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:47
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:29
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:00
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/21/25 22:53
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 03:47
Total/NA	Analysis	SM 2540C		1	470064	TGN5	EET CF	10/14/25 14:30

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-204

Lab Sample ID: 310-317864-9

Date Collected: 10/08/25 16:28

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 13:35
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:41
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 16:36
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 15:41
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:17
Total/NA	Prep	351.2			470111	W9YR	EET CF	10/15/25 07:12
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:42
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:31
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:03
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 00:05
Total/NA	Analysis	I-3765-85		1	469910	HE7K	EET CF	10/13/25 15:41
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 03:57
Total/NA	Analysis	SM 2540C		1	469911	ENB7	EET CF	10/13/25 15:55

Client Sample ID: MW-205

Lab Sample ID: 310-317864-10

Date Collected: 10/09/25 10:29

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 13:47
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:44
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 16:39
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 15:44
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:18
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:48
Total/NA	Analysis	353.2		1	470558	ZJX4	EET CF	10/19/25 20:36
Total/NA	Prep	365.2/365.3/365			470335	HE7K	EET CF	10/16/25 10:26
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:46
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 00:41
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 04:14
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: MW-206

Lab Sample ID: 310-317864-11

Date Collected: 10/08/25 15:18

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470922	ZRI4	EET CF	10/21/25 13:58
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:51
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 16:41
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 15:51
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:19
Total/NA	Prep	351.2			470111	W9YR	EET CF	10/15/25 07:12
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:41
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:03
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:03
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 01:17
Total/NA	Analysis	I-3765-85		1	469910	HE7K	EET CF	10/13/25 15:41
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 04:24
Total/NA	Analysis	SM 2540C		1	469911	ENB7	EET CF	10/13/25 15:55

Client Sample ID: LDR-1

Lab Sample ID: 310-317864-12

Date Collected: 10/09/25 11:33

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	470922	ZRI4	EET CF	10/21/25 14:10
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:54
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471187	NFT2	EET CF	10/23/25 16:44
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/23/25 16:44
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:19
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:48
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:05
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:00
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 01:53
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 04:35
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: LDR-2

Date Collected: 10/09/25 12:22

Date Received: 10/10/25 16:30

Lab Sample ID: 310-317864-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		50	470922	ZRI4	EET CF	10/21/25 14:21
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:56
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471187	NFT2	EET CF	10/23/25 16:46
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/23/25 16:46
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:21
Total/NA	Prep	351.2			470111	W9YR	EET CF	10/15/25 07:12
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:40
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:07
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 22:05
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 02:29
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 04:47
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Client Sample ID: LDR-3

Date Collected: 10/09/25 13:04

Date Received: 10/10/25 16:30

Lab Sample ID: 310-317864-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		100	470621	ZRI4	EET CF	10/16/25 21:34
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 15:59
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		7	471187	NFT2	EET CF	10/23/25 16:49
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		10	471310	NFT2	EET CF	10/24/25 15:35
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/23/25 16:49
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:21
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:51
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:13
Total/NA	Prep	365.2/365.3/365			470311	HE7K	EET CF	10/16/25 09:51
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 21:25
Total/NA	Analysis	9060A		1	471051	WZC8	EET CF	10/22/25 03:05
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 05:00
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Lab Chronicle

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Client Sample ID: SW-1

Lab Sample ID: 310-317864-15

Date Collected: 10/09/25 14:00

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		20	470621	ZRI4	EET CF	10/16/25 21:46
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 16:02
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		4	471187	NFT2	EET CF	10/23/25 16:57
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 16:02
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:24
Total/NA	Prep	351.2			470111	W9YR	EET CF	10/15/25 07:12
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:40
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:14
Total/NA	Prep	365.2/365.3/365			470311	HE7K	EET CF	10/16/25 09:51
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 21:26
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 08:05
Total/NA	Analysis	I-3765-85		1	470002	HE7K	EET CF	10/14/25 10:49
Total/NA	Analysis	SM 2320B		1	470113	WZC8	EET CF	10/15/25 05:12
Total/NA	Analysis	SM 2540C		1	470249	TGN5	EET CF	10/15/25 16:01

Client Sample ID: MW-D

Lab Sample ID: 310-317864-16

Date Collected: 10/08/25 15:18

Matrix: Water

Date Received: 10/10/25 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	470621	ZRI4	EET CF	10/16/25 21:57
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	470904	NFT2	EET CF	10/21/25 16:07
Total/NA	Prep	3005A			470479	RLT9	EET CF	10/20/25 09:00
Total/NA	Analysis	6020B		1	471187	NFT2	EET CF	10/23/25 17:02
Total/NA	Analysis	SM 2340B		1	469826	HE7K	EET CF	10/21/25 16:07
Total/NA	Analysis	350.1		1	470430	ZJX4	EET CF	10/16/25 21:24
Total/NA	Prep	351.2			470112	W9YR	EET CF	10/15/25 07:15
Total/NA	Analysis	351.2		1	470253	ZJX4	EET CF	10/15/25 16:47
Total/NA	Analysis	353.2		1	470741	ZJX4	EET CF	10/20/25 22:16
Total/NA	Prep	365.2/365.3/365			470318	HE7K	EET CF	10/16/25 10:10
Total/NA	Analysis	365.1		1	470431	ZJX4	EET CF	10/16/25 21:59
Total/NA	Analysis	9060A		1	470549	WZC8	EET CF	10/17/25 08:41
Total/NA	Analysis	I-3765-85		1	469968	HE7K	EET CF	10/14/25 09:05
Total/NA	Analysis	SM 2320B		1	470528	WZC8	EET CF	10/16/25 21:03
Total/NA	Analysis	SM 2540C		1	470064	TGN5	EET CF	10/14/25 14:30

Laboratory References:

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

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SCS Engineers
Project/Site: Heidelberg CKD Monofill - Fall 2025

Job ID: 310-317864-1
SDG: Heidelberg Materials CKD Monofill

Method	Method Description	Protocol	Laboratory
9056A	Anions, Ion Chromatography	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
SM 2340B	Total Hardness (as CaCO ₃) by calculation	SM	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET CF
365.1	Phosphorus, Total	EPA	EET CF
9060A	Organic Carbon, Total (TOC)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2320B	Alkalinity	SM	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
365.2/365.3/365	Phosphorus, Total	EPA	EET CF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

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



Environment Testing
America



310-317864 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>SOS</u>			
City/State.	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project.
Receipt Information			
Date/Time Received.	DATE <u>10-10-25</u>	TIME <u>1630</u>	Received By <u>PH</u>
Delivery Type ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>1</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>CC</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.6</u>		Corrected Temp (°C): <u>2.6</u>	
• Sample Container Temperature			
Container(s) used.	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C).			
Corrected Temp (°C).			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>SOS</u>			
City/State	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received.	DATE <u>10.10.25</u>	TIME <u>1630</u>	Received By. <u>PK</u>
Delivery Type ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID: _____			
Multiple Coolers? ☒ Yes ☐ No If yes Cooler # <u>2</u> of <u>4</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes. Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes. Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes: Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>CC</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C) <u>3.3</u>		Corrected Temp (°C): <u>3.3</u>	
• Sample Container Temperature			
Container(s) used.	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C)			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client. <u>SOS</u>			
City/State.	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received.	DATE <u>10.10.25</u>	TIME <u>1630</u>	Received By. <u>PK</u>
Delivery Type ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes Cooler ID _____			
Multiple Coolers? ☒ Yes ☐ No If yes. Cooler # <u>3</u> of <u>4</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes. Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes. Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes. Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>CC</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C). <u>1.2</u>		Corrected Temp (°C) <u>1.2</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C).			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes. Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g , bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SOS</u>			
City/State.	CITY <u>W. Des Moines</u>	STATE <u>IA</u>	Project
Receipt Information			
Date/Time Received.	DATE <u>10-10-25</u>	TIME <u>1630</u>	Received By <u>PK</u>
Delivery Type. ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID. _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>4</u> of <u>4</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes. Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☐ Yes ☒ No If yes. Which VOA samples are in cooler? ↓			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>CC</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0.2</u>		Corrected Temp (°C): <u>0.2</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

EUROFINS
DES MOINES SERVICE CENTER
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Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. dba Eurofins TestAmerica

Groundwater

Other

ROA

IPDES

DW

Regulatory Program

Project Manager

Site Contact:

Lab Contact:

Date:

Carrier:

COC No.:

1 of 4 COCs

Sampler

For Lab Use Only:

Walk-in Client

Lab Sampling:

Job /SDG No.

Sample Specific Notes:

Sample ID No.

Sample Date

Sample Time

Sample Type

Sample Matrix

Sample Cont.

Sample Analysis

Sample Results

Sample Comments

Client Contact		Project Manager		Site Contact:		Lab Contact:		Date:		Carrier:		COC No.:							
Email:		Cell:		Analysis Turnaround Time		Other:		CALENDAR DAYS		WORKING DAYS		For Lab Use Only:							
Kevin Jensen - SCS Engineers		1690 All-State Court, Suite 100		West Des Moines, Iowa 50265		319-631-6154		2 weeks		1 week		2 days							
Project Name: Heidelberg CKD Monofill - Fall 2025		Site: Heidelberg Materials CKD Monofill		P O #															
Sample Identification		Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Alkalinity	Ammonia-Nitrogen	Chloride	Hardness	Nitrate/Nitrite	Total Phosphorus	Sulfate	Total Dissolved Solids	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Suspended Solids
MW-101R - No Purge		10-8-25	14:28	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X
MW-102R - No Purge		10-8-25	13:56	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X
MW-103R - No Purge		10-8-25	13:22	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X
MW-101R - Recharge		10-9-25	09:50	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X
MW-102R - Recharge		10-9-25	09:15	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X
MW-103R - Recharge		10-9-25	09:15	G	H ₂ O				X	X	X	X	X	X	X	X	X	X	X

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

Possible Hazard Identification:

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

Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Special Instructions/QC Requirements & Comments:

Custody Seals Intact:	Custody Seal No.	Relinquished by	Date/Time	Received by	Date/Time	Relinquished by	Date/Time	Received by	Date/Time
☐ Yes ☐ No		Home Bath	10/10/25/1400						

Therm ID No. _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

Date/Time: _____

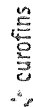
Form No. CA-C-WI-002, Rev 4.23, dated 4/16/2019

Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-9907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica



Regulatory Program. ☐ DW ☐ JPDS ☐ RCRA ☐ Other

Groundwater

Client Contact		Project Manager		Site Contact:		Date:		COC No:	
Email:		Cell:		Lab Contact:		Carrier:		2 of 4 COCs	
Kevin Jensen - SCS Engineers		1690 All-State Court, Suite 100		Analysis Turnaround Time		Sampler		For Lab Use Only	
West Des Moines, Iowa 50265		515-531-8154		☐ CALENDAR DAYS ☐ WORKING DAYS		Walk-in Client		Lab Sampling:	
Project Name: Heidelberg CKD Monofill - Fall 2025		Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day				Job / SDG No.			
Site: Heidelberg Materials CKD Monofill		P O #							
Sample Identification		Sample Date		Sample Time		Sample Type (G=Grab, G=Flow)		# of Matrix Cont.	
MW-101R - No Purge		10-8-25		1428		G		H2O	
MW-102R - No Purge		10-8-25		1356		G		H2O	
MW-103R - No Purge		10-8-25		1322		G		H2O	
MW-101R - Recharge		10-9-25		0950		G		H2O	
MW-102R - Recharge		10-9-25		0915		G		H2O	
MW-103R - Recharge		10-9-25		0915		G		H2O	
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other									
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazard ☐ Flammable ☐ Ben. Infant ☐ Peten B ☐ Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seal Intact: ☐ Yes ☐ No		Custody Seal No.		Company		Corrd:		Therm ID No.	
Relinquished by: <i>Kevin Jensen</i>		Date/Time: 10/10/15 1100		Received by:		Company		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Company		Date/Time:	
Relinquished by:		Date/Time:		Received in Laboratory by: <i>[Signature]</i>		Company		Date/Time: 10-10-15	

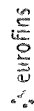
Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

1630

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Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way



Cedar Falls, IA 50613-5907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Groundwater

Other

Regulatory Program. ☐ JW ☐ JPPIS

Project Manager:

Client Contact		Email:		Site Contact:		Date:		COC No:	
Kevin Jensen - SCS Engineers		Cell:		Lab Contact:		Carrier:		3 of 4 COCs	
1090 All-State Court, Suite 100		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Total Alkalinity		Sampler	
West Des Moines, Iowa 50265		☐ CALENDAR DAYS ☐ WORKING DAYS		Filtered Sample (Y / N)		Ammonia-Nitrogen		For Lab Use Only	
515-531-5154		Other:		# of Cont.		Nitrate/Nitrite		Walk-in Client:	
Project Name: Heidelberg CKD Monofill - Fall 2025		☐ 2 weeks		Sample Type		Hardness		Lab Sampling:	
Site: Heidelberg Materials CKD Monofill		☐ 1 week		(G-Comp, G-Grab)		Total Phosphorus		Job / SDG No.	
P O #		☐ 2 days		Sample Date		Sulfate			
		☐ 1 day		Sample Time		Total Dissolved Solids		Sample Specific Notes:	
MW-201		10-9-25		1112		X		Total Organic Carbon	
MW-202		10-8-25		1700		X		Total Suspended Solids	
MW-203		10-8-25		1552		X			
MW-204		10-8-25		1628		X			
MW-205		10-9-25		1029		X			
MW-206		10-8-25		1518		X			
LDR-1		10-9-25		1132		X			
LDR-2		10-9-25		1222		X			
LDR-3		10-9-25		1304		X			
SW-1		10-9-25		1402		X			
MW-D		10-8-25		1518		X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments.									
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp. (°C)		Obs'd.		Therm ID No.	
Relinquished by: <i>Kevin Jensen</i>		Company: SCS		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time: 10/10/25 16:30	

Form No. CA-CWI-002, Rev 4.23, dated 4/16/2019

Chain of Custody Record

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls, IA 50613-6907
phone 319.277.2401 fax 319.277.2425

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program: ☐ DW ☐ IPDES ☐ CQA ☐ Other ☐ Groundwater

Client Contact		Project Manager:		Site Contact:		Date:		COC No:		
Email:		Cell:		Lab Contact:		Carrier:		4 of 4 COCs		
Kevin Jensen - SCS Engineers		Analysis Turnaround Time		For Lab Use Only:						
1690 All-State Court, Suite 100		☐ CALENDAR DAYS ☐ WORKING DAYS		Walk-in Client:						
West Des Moines, Iowa 50265		Other:		Lab Sampling:						
515.631.6154		☐ 2 weeks		Job / SDG No.:						
Project Name: Heidelberg CKD Monofill - Fall 2025		☐ 1 week								
Site: Heidelberg Materials CKD Monofill		☐ 2 days								
P O #		☐ 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:			
MW-201	10-9-25	1112	G	H2O			Total Sodium	X		
MW-202R	10-8-25	1700	G	H2O			Total Selenium	X		
MW-203R	10-8-25	1552	G	H2O			Total Potassium	X		
MW-204	10-8-25	1628	G	H2O			Total Magnesium	X		
MW-205	10-9-25	1029	G	H2O			Total Lead	X		
MW-206	10-8-25	1518	G	H2O			Total Chromium	X		
LDR-1	10-9-25	1133	G	H2O			Total Calcium	X		
LDR-2	10-9-25	1222	G	H2O			Total Arsenic	X		
LDR-3	10-9-25	1304	G	H2O			Total Aluminum	X		
SW-1	10-9-25	1400	G	H2O			Perform MS / MSD (Y / N)	X		
MW-D	10-8-25	1518	G	H2O			Filtered Sample (Y / N)	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										
Possible Hazard Identification:							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.										
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months			
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temp. (°C):		Obs'd:		Therm ID No.:		
Relinquished by: <i>Kevin Jensen</i>		Company: SCS		Date/Time: 10/18/25/1400		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		
							Date/Time: 10-10-25			

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

1630

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-317864-1

SDG Number: Heidelberg Materials CKD Monofill

Login Number: 317864

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Collins, Charlotte G

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



Appendix B-2

Data Validation

Completed by: Semir Omerovic
 Lab Report Date: 5/14/2025
 Site Name: Heidelberg CKD Monofill
 Lab Report Number: 310-305512-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
 Temperature
 Preservation
 Condition

X			
X			
X			
X			
	X		Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW-203R. Elevated reporting limits (RLs) were provided.
X			
X			

Reporting Limits

Case Narrative
 Holding Times

Analytical Sensitivity and Blanks

Method Blank Detections
 Trip Blank Detections

X			
		X	

Accuracy

ICV/CCV
 LCS/LCSD

MS/MSD

Surrogates (organics only)

X			
X			
	X		MS/MSD results were outside recovery limits for selenium, calcium, magnesium, and sodium associated with analysis batch 454379.
X			

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			The duplicate sample was collected from MW-206 during the spring 2025 event. All parameters had <50% relative difference. Constituents with J flag were not considered for the duplicate sample comparisons.

Completed by: Semir Omerovic
Lab Report Date: 10/27/2025
Site Name: Heidelberg CKD Monofill
Lab Report Number: 310-317864-1

OK NO N/A NOTES

Sample Collection and Sample Handling

Chain of Custody
Temperature
Preservation
Condition
Reporting Limits
Case Narrative
Holding Times

X			
X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

Method Blank Detections

Trip Blank Detections

	X		Arsenic was found in blank and sample associated with analysis batch 470904. Total organic carbon was found in blank and sample associated with analysis batch 471051.
		X	

Accuracy

ICV/CCV
LCS/LCSD

MS/MSD

Surrogates (organics only)

X			
X			
	X		MS/MSD results were outside recovery limits for ammonia associated with analysis batches 470430 and 470890.
X			

Precision

QA/QC Sample RPDs

Field Duplicates

	X		Duplicate RPD exceeds the control limits for aluminum associated with analysis batch 470904.
X			The duplicate sample was collected from MW-206 during the fall 2025 event. All parameters had <50% relative difference. Constituents with J flag were not considered for the duplicate sample comparisons.



Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry

Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Total Metals Constituents Aluminum, mg/L (CAS NO - 7429-90-5)	4/29/2015	N/A	N/A	N/A	N/A	N/A	0.333	0.0412	N/A	0.047	< 0.05	N/A	0.0874	0.0254	< 0.05	0.0113	N/A
	11/9/2015	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	0.161
	4/19/2016	0.62	N/A	0.0333	< 0.05	N/A	0.0445	< 0.05	N/A	0.489	< 0.05	0.184	0.121	< 0.05	N/A	N/A	0.0505
	10/11/2016	0.137	N/A	0.0444	0.0243	N/A	< 0.05	< 0.05	N/A	0.0275	< 0.05	< 0.05	0.0494	< 0.05	N/A	N/A	0.0466
	4/26/2017	N/A	0.125	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0502
	10/12/2017	0.116	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	0.114	< 0.05	1.53	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	4/25/2018	N/A	0.564	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 2	0.125	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0428
	10/18/2018	N/A	0.294	< 0.2	< 0.2	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	0.0464	< 0.05	< 0.05	< 0.05	< 0.05	0.273
	4/26/2019	N/A	0.0926	< 0.05	< 0.05	N/A	< 0.05	< 0.05	9.01	0.662	< 0.05	0.0966	< 0.05	< 0.05	< 0.05	< 0.05	0.206
	10/25/2019	< 0.05	0.146	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	2.28	< 0.05	0.0472	< 0.05	< 0.05	< 0.05	< 0.05	0.129
	4/16/2020	< 0.05	0.127	< 0.05	< 0.05	N/A	< 0.05	< 0.05	3.48	0.0674	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.975
	10/22/2020	0.0212	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	6	< 0.05	0.0409	< 0.05	< 0.05	< 0.05	< 0.05	0.35
	4/22/2021	< 0.05	N/A	< 0.2	< 0.2	N/A	< 0.05	< 0.05	10.8	3.6	< 0.2	0.0893*	< 0.05	< 0.05	< 0.05	< 0.05	0.235
	4/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	0.201	0.0575	0.0226*	< 0.05	N/A	< 0.05	< 0.05	N/A	0.107	0.0174*	0.0644	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	0.179	0.0326*	< 0.2	< 0.2	N/A	< 0.05	< 0.05	9.54	0.351	< 0.2	< 0.2	< 0.05	< 0.05	< 0.05	< 0.05	0.0852*
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	10/27/2022	0.0797	N/A	0.018*	< 0.05	N/A	0.0306*	< 0.05	N/A	0.495	< 0.05	0.0361*	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.495	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	4/27/2023	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	0.455*	0.0239*	< 0.05	0.0466*	< 0.05	< 0.05	< 0.05	< 0.05	0.0216*
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/19/2023	< 0.05	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	0.0554	< 0.05	0.0249*	0.0285*	< 0.05	< 0.05	< 0.05	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	N/A
	4/29/2024	0.158	0.0631	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 1.25	0.0822	< 0.2	0.0265*	< 0.05	< 0.05	< 0.05	< 0.05	0.0248*
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	N/A
	10/7/2024	N/A	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	N/A
	4/29/2025	2.3	1.04	< 0.05	< 0.05	0.0399*	< 0.05	< 0.05	2.43	2.45	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0322*
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	10/8/2025	0.286	0.093	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0446*
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	4/29/2015	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	N/A	< 0.002	0.00133	N/A	0.00174	< 0.002	< 0.002	< 0.002	N/A
	11/9/2015	< 0.002	N/A	< 0.004	< 0.004	N/A	< 0.001	< 0.001	N/A	< 0.003	< 0.003	N/A	0.00234	< 0.002	< 0.002	< 0.002	0.013
	4/19/2016	0.00255	N/A	0.00108	< 0.002	N/A	0.000857	< 0.002	N/A	0.00401	0.00404	0.00817	0.000832	0.000858	N/A	N/A	0.00157
	10/11/2016	0.00273	N/A	0.00103	< 0.002	N/A	< 0.002	< 0.002	N/A	0.000689	0.00742	0.0061	0.003	< 0.002	N/A	N/A	0.00121
	4/26/2017	N/A	0.00305	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	< 0.002	0.00206	0.00338	0.00181	< 0.002	< 0.002	< 0.002	0.00135
	10/12/2017	0.00139	N/A	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	0.000802	0.00192	0.00982	0.00226	< 0.002	< 0.002	< 0.002	0.00097
	4/25/2018	N/A	0.00846	< 0.002	< 0.002	N/A	< 0.002	< 0.002	0.127	< 0.002	0.00078	0.000807	< 0.002	< 0.002	< 0.002	< 0.002	0.000822
	10/18/2018	N/A	0.00522	< 0.008	< 0.008	N/A	< 0.002	< 0.002	< 0.002	< 0.002	0.00268	0.00847	0.00194	< 0.002	< 0.002	< 0.002	0.00214
	4/26/2019	N/A	0.00471	< 0.002	< 0.002	N/A	< 0.002	< 0.002	0.403	0.00145	0.00252	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00181
	10/25/2019	< 0.002	0.00513	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	< 0.008	0.00104	0.00209	0.00204	< 0.002	< 0.002	< 0.002	0.00112
	4/16/2020	< 0.002	0.00463	< 0.002	< 0.002	N/A	< 0.002	< 0.002	0.261	< 0.002	0.00162	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00255
	10/22/2020	< 0.002	N/A	< 0.002	< 0.002	N/A	< 0.002	< 0.002	N/A	0.0037	0.00122	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00138*
	4/22/2021	< 0.002	N/A	< 0.002	< 0.002	N/A	< 0.002	< 0.002	0.349	0.00294	0.000894*	< 0.002	0.00096*	< 0.002	< 0.002	< 0.002	0.00158*
	4/22/2021	N/A	N/A	N/A	N/A	N/A	< 0										

SCS ENGINEERS

Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3,5UMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Total Metals Constituents Chromium, mg/L (CAS NO - 7440-47-3)	4/29/2015	N/A	N/A	N/A	N/A	N/A	0.0475	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/9/2015	< 0.02	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/19/2016	0.00301	N/A	< 0.005	< 0.005	N/A	0.00215	0.00688	N/A	0.00225	0.000379	< 0.025	0.00104	0.00164	N/A	N/A	< 0.005
	10/11/2016	< 0.005	N/A	< 0.005	< 0.005	N/A	0.000493	0.000468	N/A	< 0.005	< 0.005	< 0.005	0.000598	0.002	N/A	N/A	< 0.005
	4/26/2017	N/A	0.000729	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/12/2017	0.00089	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00331	< 0.005	3.46	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/25/2018	N/A	0.00525	< 0.005	0.00305	N/A	< 0.005	< 0.005	0.27	< 0.005	< 0.005	0.000825	0.00844	0.000846	< 0.005	< 0.005	< 0.005
	10/18/2018	N/A	0.00161	< 0.02	< 0.02	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.0596	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2019	N/A	< 0.005	< 0.02	< 0.02	N/A	< 0.005	< 0.005	0.263	0.00282	< 0.005	0.0354	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/25/2019	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00633	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/16/2020	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.451	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00174
	10/22/2020	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.0137	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/22/2021	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.246	0.00882	< 0.005	< 0.005	0.0022*	< 0.005	< 0.005	< 0.005	< 0.005
	4/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	0.00179*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.0017*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	< 0.005	< 0.005	< 0.02	< 0.02	N/A	< 0.005	< 0.005	0.203*	< 0.02	< 0.02	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/27/2022	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00472*	< 0.005	0.00492*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	4/27/2023	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.269	< 0.005	< 0.005	0.00384*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2023	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.0451	< 0.005	< 0.005	0.00245*	< 0.005	< 0.005	< 0.005	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	4/29/2024	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.141	0.00411*	< 0.02	0.0343	0.00181*	< 0.005	< 0.005	< 0.005	< 0.005
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	10/7/2024	N/A	N/A	0.00357*	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.00299*	< 0.005	0.00122*	< 0.005	< 0.005	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	4/29/2025	0.006	0.0018*	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	0.207	0.0119	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
	10/8/2025	0.00315*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	4/29/2015	N/A	N/A	N/A	N/A	N/A	0.00154	0.000255	N/A	0.00127	< 0.0005	N/A	0.000159	0.000415	0.000111	0.000108	N/A
	11/9/2015	< 0.004	N/A	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A	< 0.004	< 0.004	N/A	< 0.004	< 0.004	0.00499	< 0.004	< 0.004
	4/19/2016	0.00473	N/A	0.000375	0.000224	N/A	0.000257	0.000269	N/A	0.00381	< 0.0005	< 0.0025	0.000386	0.000411	N/A	N/A	0.000319
	10/11/2016	0.000501	N/A	0.000549	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	0.000259	< 0.0005	< 0.0005	0.000253	< 0.0005	N/A	N/A	0.000211
	4/26/2017	N/A	0.000654	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000434
	10/12/2017	0.00106	N/A	0.000614	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	0.00577	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000628
	4/25/2018	N/A	0.00191	< 0.0005	< 0.0005	N/A	0.00485	< 0.0005	< 0.02	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000343
	10/18/2018	N/A	0.000552	< 0.002	< 0.002	N/A	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000289	< 0.0005	0.000541	0.00112
	4/26/2019	N/A	< 0.0005	< 0.0005	0.000392	N/A	< 0.0005	< 0.0005	0.0392	0.000904	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000874
	10/25/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	< 0.002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	4/16/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	0.0285	0.000619	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000549
	10/22/2020	< 0.0005	N/A	< 0.0005	< 0.0005	N/A	<										

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Summary of Groundwater Chemistry

Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3UMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Total Metals Constituents Potassium, mg/L (CAS NO - 7440-09-7)	4/29/2015	N/A	N/A	N/A	N/A	N/A	18.5	6.57	N/A	30.7	9.88	N/A	17.3	7.12	14.9	6.6	N/A
	6/17/2015	10.6	N/A	13.2	23.8	N/A	N/A	N/A	N/A	27.1	9.66	N/A	N/A	N/A	N/A	N/A	N/A
	11/9/2015	10.5	N/A	N/A	15.7	N/A	7.44	6.71	N/A	37	12.5	N/A	16.7	7.01	13.5	7.04	145
	4/19/2016	11.1	N/A	13.7	25.1	N/A	6.07	8.58	N/A	35.4	861	12.9	23.9	7.47	N/A	N/A	96.7
	10/11/2016	7.5	N/A	13.3	25.5	N/A	6.42	6.37	N/A	32.2	674	17.2	20	7.22	N/A	N/A	111
	4/26/2017	N/A	7.99	14	25.4	N/A	5.85	7.31	N/A	39.4	214	18.2	10.6	7.9	16.8	7.34	111
	10/12/2017	8.51	N/A	12.6	25.1	N/A	5.8	6.18	N/A	18	133	19.4	8.8	7.13	14	6.3	128
	4/25/2018	N/A	6.49	11.8	23.1	N/A	6.46	5.81	8200	38	89.4	20.8	20.5	6.94	15.4	6.55	106
	10/18/2018	N/A	6.81	13.6	25.9	N/A	6	6.13	N/A	36.3	770	24.4	25.8	7.64	13	6.62	134
	4/26/2019	N/A	7.22	15.1	25.1	N/A	6.51	7.03	14300	45.8	607	32.5	48.3	8.05	14.7	7.72	129
	10/25/2019	7.85	6.53	12.9	25.6	N/A	6.03	6.13	N/A	52.4	310	33.8	44.1	7.45	13.7	6.52	111
	4/16/2020	9.24	6.88	13.8	24.6	N/A	5.53	6.15	15700	41.6	445	40.9	36.2	7.21	12.2	7.64	261
	10/22/2020	7.98	N/A	13.3	27	N/A	4.88	5.69	N/A	47.7	370	41.2	29.9	6.66	11.5	6.33	308
	4/22/2021	8.47	N/A	13	21.3	N/A	6.1	6.48	14300	46.9	190	80.1	43.6	7.87	14.2	7.24	331
	4/22/2021	N/A	N/A	N/A	N/A	N/A	8.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	7.61	6.25	12.5	24.1	N/A	5.46	5.81	N/A	44.4	161	134	33.2	7.46	12.1	6.3	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	5.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	7.97	6.43	11.7	20.1	N/A	5.61	6.01	8410	45.6	102	130	28.5	7.5	11.9	6.93	173
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/27/2022	7.49	N/A	12.7	25.2	N/A	5.66	6.13	N/A	55	98.3	221	24.1	8.12	11.6	6.41	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2023	8.39	5.92	10.7	19	N/A	5.11	5.51	9400	23.1	37.5	262	27.4	6.73	9.96	6.35	211
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2023	7.48	N/A	8.99	25.4	N/A	5.18	6.47	N/A	53.3	62.2	371	22.4	8.64	10.9	6.77	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/29/2024	7.97	6.35	12.3	20.6	N/A	5.05	5.73	8420	47	70.3	357	29.9	6.86	21.1	6.29	186
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/7/2024	N/A	N/A	13	25.4	N/A	5.44	6.84	N/A	53.4	57.2	464	23.2	9.63	14.1	7.06	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/29/2025	9.14	6.54	12.6	29.2	25.6	4.55	5.32	9070	48.5	67.7	458	26.1	6.37	10.9	6.08	137
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.2	N/A
	10/8/2025	8.42	6.74	13	25.7	20.5	5.22	5.81	N/A	50.4	58.6	639	25.4	7	10.8	6.56	183
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.5	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	4/29/2015	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/9/2015	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/19/2016	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	0.000749	0.00593	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	0.000786
	10/11/2016	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	4/26/2017	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	0.00157	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/12/2017	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/25/2018	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.342	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/18/2018	N/A	< 0.005	< 0.02	< 0.02	N/A	< 0.005	< 0.005	N/A	< 0.005	0.00154	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/26/2019	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.859	< 0.005	0.00176	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/25/2019	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/16/2020	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.467	< 0.005	0.00111	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02
	10/22/2020	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00113*
	4/22/2021	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00122*	< 0.005	0.482	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.000968*
	4/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	< 0.005	< 0.005	< 0.02	< 0.02	N/A	< 0.005	< 0.005	0.286	< 0.02	< 0.02	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/27/2022	< 0.005	N/A	< 0.005	< 0.005	N/A	0.00121*	0.00164*	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/27/2023	0.00148*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	0.324	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2023	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	0.00767	0.00196*	< 0.005	< 0.005	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/29/2024	< 0.005	< 0.005	0.00201*	< 0.005	N/A	< 0.005	< 0.005	0.305	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/7/2024	N/A	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/29/2025	< 0.005	< 0.005	< 0.005	< 0.02	< 0.005	< 0.005	< 0.005	0.276	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	10/8/2025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
Sodium, mg/L (CAS NO - 7440-23-5)	4/29/2015	N/A	N/A	N/A	N/A	N/A	21.7	18.1	N/A	22.8	13.4	N/A	18.3	22.5	22.2	17.6	N/A
	6/17/2015	62.9	N/A	54.2	81.6	N/A	N/A	N/A	N/A	21.9	18.6	N/A	N/A	N/A	N/A	N/A	N/A
	11/9/2015	55.5	N/A	60.3	84.5	N/A	18.3	17.9	N/A	26.5	18.2	N/A	18.3	21.3	22.9	19.5	15.8
	4/19/2016	59.6	N/A	53.4	62.4	N/A	18.3	21.4	N/A	24.3	42.1	79.5	18.3	23	N/A	N/A	8.93
	10/11/2016	31.1	N/A	55.2	84.8	N/A	18.2	18.1	N/A	24.9	57.2	129	17.2	26.6	N/A	N/A	6.31
	4/26/2017	N/A	30.6	54.3	80.5	N/A	17.3	18.8	N/A	26.4	36.8	160	21.6	29.7	21.9	18.5	7.53
	10/12/2017	49.9	N/A	53.5	77.9	N/A	17.3	16.8	N/A	20	32.8	167	29	23	19.7	16.7	6.79

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Total Metals Constituents Total Suspended Solids, mg/L (CAS NO - TSS)	4/24/2001	N/A	N/A	N/A	N/A	N/A	45	N/A	N/A	N/A	N/A	N/A	8	10	N/A	N/A	N/A
	7/25/2001	N/A	N/A	N/A	N/A	N/A	150	N/A	N/A	N/A	N/A	N/A	44	80	N/A	N/A	N/A
	10/22/2001	N/A	N/A	N/A	N/A	N/A	13	N/A	N/A	N/A	N/A	N/A	20	14	N/A	N/A	N/A
	1/8/2002	460	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A
	10/23/2003	7300	N/A	26	N/A	N/A	360	N/A	N/A	N/A	N/A	N/A	< 10	290	N/A	N/A	N/A
	4/27/2004	12000	N/A	130	N/A	N/A	180	N/A	N/A	N/A	N/A	N/A	93	N/A	N/A	N/A	6.5
	7/20/2004	1400	N/A	360	N/A	N/A	220	N/A	N/A	N/A	N/A	N/A	300	N/A	N/A	N/A	5.9
	10/29/2004	37400	N/A	264	N/A	N/A	358	N/A	N/A	N/A	N/A	N/A	890	58.7	N/A	N/A	N/A
	4/26/2005	173	N/A	27.3	N/A	N/A	23	N/A	N/A	N/A	N/A	N/A	N/A	77	N/A	N/A	N/A
	10/24/2005	820	N/A	133	N/A	N/A	69.3	N/A	N/A	N/A	N/A	N/A	N/A	17	N/A	N/A	8
	4/24/2006	9770	N/A	177	N/A	N/A	61.5	N/A	N/A	N/A	N/A	N/A	170	23.7	N/A	N/A	8.67
	10/25/2006	41000	N/A	288	N/A	N/A	374	N/A	N/A	N/A	N/A	N/A	85	48	N/A	N/A	N/A
	4/24/2007	684	N/A	38.3	N/A	N/A	50.3	N/A	N/A	N/A	N/A	N/A	N/A	10.5	N/A	N/A	22
	10/31/2007	N/A	N/A	129	N/A	N/A	19.7	N/A	N/A	N/A	N/A	N/A	118	N/A	N/A	N/A	4.33
	10/30/2008	1450	N/A	284	N/A	N/A	23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2009	64.7	N/A	16.7	N/A	N/A	19	N/A	N/A	N/A	N/A	N/A	296	N/A	N/A	N/A	< 5
	10/12/2009	N/A	N/A	55.3	N/A	N/A	72.3	N/A	N/A	N/A	N/A	N/A	135	< 5	N/A	N/A	< 5
	10/12/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	238	N/A	N/A	N/A
	4/16/2010	237	N/A	N/A	N/A	N/A	112	N/A	N/A	N/A	N/A	N/A	361	56.7	N/A	N/A	9
	10/7/2010	3910	N/A	N/A	348	N/A	< 5	N/A	N/A	N/A	N/A	N/A	58	< 5	N/A	N/A	13.7
	4/21/2011	100	N/A	N/A	68.8	N/A	10	N/A	N/A	N/A	N/A	N/A	12.7	8.67	N/A	N/A	12
	10/11/2011	9	N/A	171	15.7	N/A	16.3	N/A	N/A	N/A	N/A	N/A	< 15	< 5	N/A	N/A	9
	4/24/2012	55.7	N/A	42	14.7	N/A	82	N/A	N/A	N/A	N/A	N/A	17.3	5.3	N/A	N/A	< 5
	10/4/2012	N/A	N/A	30	5.7	N/A	114	N/A	N/A	N/A	N/A	N/A	112	35	N/A	N/A	N/A
	11/1/2012	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/25/2013	N/A	N/A	N/A	N/A	N/A	141	N/A	N/A	668	9.7	N/A	10	< 5	N/A	N/A	< 5
	10/1/2013	N/A	N/A	N/A	N/A	N/A	< 5	8	N/A	480	< 5	N/A	7.3	< 5	< 5	< 5	108
	4/15/2014	N/A	N/A	N/A	N/A	N/A	< 5	26.3	N/A	27.7	< 5	N/A	7.3	6	< 5	< 5	17
	10/2/2014	N/A	N/A	N/A	N/A	N/A	< 5	6	N/A	38	7.3	N/A	14.8	< 2.5	< 2.5	< 2.5	6.7
	4/29/2015	N/A	N/A	N/A	N/A	N/A	131	9.63	N/A	11	< 5	N/A	18.4	4.33	2.75	< 1.88	116
	6/17/2015	34.2	N/A	17.3	4	N/A	N/A	N/A	6840	49	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/9/2015	3.3	N/A	2.1	8.1	N/A	3.5	< 1.9	N/A	71.5	< 1.9	N/A	6.4	< 1.9	< 1.9	< 1.9	215
	4/19/2016	81.2	N/A	9.5	8.25	N/A	15.1	10.8	N/A	378	4.5	13.1	33.9	3.75	N/A	N/A	16.3
	10/11/2016	44	N/A	4.13	3.75	N/A	9	5.88	N/A	33.1	32.8	7.63	20.4	2.63	N/A	N/A	9.25
	4/26/2017	N/A	234	2.88	1.75	N/A	2	1.63	N/A	1.63	13.9	10.4	4.75	< 1.88	1.88	< 1.88	14.5
	10/12/2017	64.6	N/A	1.38	2.25	N/A	9.87	2	N/A	528	3.38	1950	7.37	0.625	1.38	0.75	20.2
	4/25/2018	N/A	297	1.5	2.13	N/A	4.13	3.5	81	40.7	1.5	13.8	1	< 1.88	1.13	< 1.88	7.14
	10/18/2018	N/A	129	1.5	1.38	N/A	2.38	1.5	N/A	10.8	4.13	18.3	3.25	0.75	1.75	< 1.88	66.3
	4/26/2019	N/A	35.9	0.875	0.875	N/A	1.63	1.38	254	59.5	1.13	9.38	0.75	< 1.88	0.75	< 1.88	17
	10/25/2019	14.6	45.3	2.25	2.25	N/A	4	0.875	N/A	150	0.75	9.87	4.88	< 5	1	< 1.88	8.37
	4/16/2020	4.62	33.1	0.875	1.88	N/A	1.75	0.875	344	29.8	< 1.88	2.25	2.38	< 1.88	1.38	< 1.88	32
	10/22/2020	30.8	N/A	1	< 1.88	N/A	1.63	0.75	N/A	595	< 1.88	6.13	< 1.88	< 1.88	0.75	< 1.88	21.8
	4/22/2021	3.75	N/A	1.25*	0.875*	N/A	1.25*	0.75*	1310	113	1.5*	9.87	4.38	< 1.88	1.25*	< 1.88	17.6
	4/22/2021	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	111	15	2.13	1.38*	N/A	2.63	2.5	N/A	228	2.75	10.8	5	< 1.88	< 1.88	0.875*	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	2.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	112	8.25	7.75	2.5	N/A	0.75*	2.25	1460	578	2.5	9.75	7.5	< 1.88	1.63*	< 1.88	13.3
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.63	N/A	N/A	N/A	N/A
	10/27/2022	192	N/A	4	2.13	N/A	2.38	2.5	N/A	970	15.1	< 1.88	9	6.63	3.13	1.38*	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.5	N/A
	4/27/2023	8.25	3.87	1.13*	< 1.88	N/A	2.13	1.25*	75	22.4	2.63	14.1	3.75	< 1.88	1.13*	< 1.88	10.6
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.13*	N/A
	10/19/2023	4.13	N/A	1.38*	1*	N/A	4.25	1.75*	N/A	74.5	2.5	9.87	5.88	1.25*	1.38*	0.875*	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.13*	N/A
	4/29/2024	150	12.8	4.13	3.75	N/A	2.75	2.63	372	32.4	< 5	32.1	< 1.88	< 1.88	5.37	< 1.88	5.37
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.88	N/A
	10/7/2024	N/A	N/A	< 1.88	< 1.88	N/A	1.5*	1.5*	N/A	11.2	1.88	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A
	4/29/2025	97	38.1	< 1.88	< 1.88	< 1.88	< 1.88	1.88	406	217	3.25	4	< 1.88	< 1.88	< 1.88	< 1.88	3.75
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.25	N/A
	10/8/2025	68.2	28.4	1.63*	< 1.88	< 1.88	2.13	1.63*	N/A	4.33*	< 1.88	5.6	< 1.88	< 1.88	1.5*	< 1.88	15.8
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

Other Constituents	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG		
Alkalinity, Total [CaCO3], mg/L (CAS NO - TALK)	4/25/2013	N/A	N/A	N/A	N/A	N/A	271	N/A	N/A	634	604	N/A	353	384	N/A	N/A	N/A		
	10/1/2013	N/A	N/A	N/A	N/A	N/A	289	372	N/A	655	630	N/A	356	366	351	382	N/A		
	4/15/2014	N/A	N/A	N/A	N/A	N/A	306	341	N/A	454	568	N/A	316	326	331	345	N/A		
	10/2/2014	N/A	N/A	N/A	N/A	N/A	341	361	N/A	578	614	N/A	320	346	346	361	N/A		
	4/29/2015	N/A	N/A	N/A	N/A	N/A	356	362	N/A	541	583	N/A	325	351	362	372	258		
	6/17/2015	484	N/A	541	633	N/A	N/A	N/A	N/A	623	659	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	11/9/2015	454	N/A	537	614	N/A	330	341	N/A	573	624	N/A	341	335	335	356	387		
	4/19/2016	474	N/A	494	618	N/A	371	371	N/A	546	896	340	330	361	N/A	N/A	237		
	10/11/2016	385	N/A	565	580	N/A	333	342	N/A	570	803	394	328	304	N/A	N/A	157		
	4/26/2017	N/A	397	623	649	N/A	345	350	N/A	530	680	505	350	314	355	366	196		
	10/12/2017	438	N/A	623	633	N/A	345	350	N/A	206	716	520	335	335	350	355	208		
	4/25/2018	N/A	378	637	643	N/A	340	362	4480	551	675	578	356	340	356	373	200		
	10/18/2018	N/A	371	613	628	N/A	345	345	N/A	597	1070	567	350	330	345	350	139		
	4/26/2019	N/A	356	599	604	N/A	327	337	7030	530	827	574	327	312	337	347	218		
	10/25/2019	438	381	659	664	N/A	350	361	N/A	644	850	633	371	361	355	376	258		
	4/16/2020	390	380	637	665	N/A	356	342	7240	523	760	618	342	318	342	342	228		
	10/22/2020	412	N/A	675	664	N/A	350	361	N/A	608	829	613	337	330	361	381	232		
	4/22/2021	380	N/A	612	602	N/A	326	336	7030	523	642	592	296	306	326	336	217		
	4/22/2021	N/A	N/A	N/A	N/A	N/A	326	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2021	474	412	651	670	N/A	371	340	N/A	659	773	649	391	381	361	381	N/A	N/A	
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	361	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/28/2022	412	372	686	647	N/A	353	363	5050	578	627	657	372	323	382	372	274	N/A	
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	323	N/A	N/A	N/A	N/A	N/A	
	10/27/2022	390	N/A	617	636	N/A	363	354	N/A	617	617	617	345	342	409	352	N/A	N/A	
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	352	N/A	
	4/27/2023	394	348	613	621	N/A	333	330	4860	554	587	611	325	324	323	352	183	N/A	
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	333	N/A	N/A	
	10/19/2023	367	N/A	621	628	N/A	321	335	N/A	609	651	582	335	259	332	346	N/A	N/A	
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	327	N/A	N/A	
	4/29/2024	254	364	696	588	N/A	342	328	6720	649	705	692	260	283	334	342	355	N/A	
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	278	N/A	N/A	
	10/7/2024	N/A	N/A	653	655	N/A	342	344	N/A	652	676	632	364	318	346	361	N/A	N/A	
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	346	N/A	N/A	
	4/29/2025	421	371	658	637	632	338	343	5360	549	591	628	288	325	339	359	259	N/A	
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	359	N/A	
	10/8/2025	430	297	646	607	546	354	357	N/A	641	696	683	400	325	357	275	409	N/A	
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	373	N/A	
Bicarbonate, mg/L (CAS NO - BICARB)	6/17/2015	484	N/A	541	633	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/26/2019	N/A	356	599	604	N/A	327	337	< 25	530	827	574	327	312	337	347	218		
	4/16/2020	390	380	637	665	N/A	356	342	< 25	523	760	618	342	318	342	342	228		
	4/22/2021	380	N/A	612	602	N/A	326	336	< 20	523	642	592	296	306	326	336	217		
	4/22/2021	N/A	N/A	N/A	N/A	N/A	326	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2021	474	412	651	670	N/A	371	361	N/A	659	773	649	391	381	361	381	N/A	N/A	
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	340	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/28/2022	412	372	686	647	N/A	353	363	< 25	578	627	657	372	323	382	372	274	N/A	
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	323	N/A	N/A	N/A	N/A	N/A	
	10/27/2022	390	N/A	617	636	N/A	363	354	N/A	617	617	617	345	342	409	352	N/A	N/A	
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	352	N/A	
	4/27/2023	394	348	613	621	N/A	333	330	< 50	554	587	611	325	324	333	352	183	N/A	
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	323	N/A	N/A	
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	321	335	N/A	609	651	582	335	249	327	346	N/A	
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	332	N/A	N/A	
	4/29/2024	254	364	696	588	N/A	342	328	< 25	649	705	692	260	283	334	342	355	N/A	
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	278	N/A	N/A	
	10/7/2024	N/A	N/A	653	655	N/A	342	344	N/A	652	676	632	364	153	346	361	N/A	N/A	
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	346	N/A	N/A	
	4/29/2025	421	371	658	637	632	338	343	< 100	549	591	628	288	325	339	359	259	N/A	
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	359	N/A	
	10/8/2025	430	297	646	607	546	354	357	N/A	641	696	683	400	325	357	275	409	N/A	
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	373	N/A	
	Carbonate, mg/L (CAS NO - CARB)	6/17/2015	< 5	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		4/26/2019	N/A	< 5	< 5	< 5	N/A	< 5	< 5	2280	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
		4/16/2020	< 10	< 10	< 10	< 10	N/A	< 5	< 10	2420	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
		4/22/2021	<																

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG	
Other Constituents Ammonia as N, mg/L (CAS NO - 7664-41-7)	10/12/2009	N/A	N/A	< 0.2	N/A	N/A	0.449	N/A	N/A	N/A	N/A	N/A	0.807	< 0.2	N/A	N/A	N/A	
	4/16/2010	< 0.2	N/A	N/A	N/A	N/A	0.459	N/A	N/A	N/A	N/A	N/A	0.56	< 0.2	N/A	N/A	N/A	
	10/7/2010	< 0.2	N/A	N/A	< 0.2	N/A	0.251	N/A	N/A	N/A	N/A	N/A	0.558	< 0.2	N/A	N/A	N/A	
	4/21/2011	< 0.2	N/A	N/A	< 0.2	N/A	0.286	N/A	N/A	N/A	N/A	N/A	0.415	< 0.2	N/A	N/A	N/A	
	10/11/2011	< 0.2	N/A	N/A	< 0.2	N/A	0.458	N/A	N/A	N/A	N/A	N/A	0.46	< 0.2	N/A	N/A	N/A	
	4/24/2012	< 0.2	N/A	< 0.2	< 0.2	N/A	0.414	N/A	N/A	N/A	N/A	N/A	0.453	< 0.2	N/A	N/A	N/A	
	10/4/2012	N/A	N/A	< 0.2	< 0.2	N/A	0.457	N/A	N/A	N/A	N/A	N/A	0.64	< 0.2	N/A	N/A	N/A	
	11/1/2012	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/25/2013	N/A	N/A	N/A	N/A	N/A	N/A	0.399	N/A	N/A	< 0.2	< 0.2	N/A	0.368	< 0.2	N/A	N/A	
	10/1/2013	N/A	N/A	N/A	N/A	N/A	N/A	0.853	0.225	N/A	< 0.2	< 0.2	N/A	0.344	< 0.2	0.451	< 0.2	
	4/15/2014	N/A	N/A	N/A	N/A	N/A	N/A	0.402	0.217	N/A	< 0.2	< 0.2	N/A	0.405	< 0.2	0.408	0.205	
	10/2/2014	N/A	N/A	N/A	N/A	N/A	N/A	0.318	0.224	N/A	0.202	< 0.2	N/A	0.486	< 0.2	0.378	0.217	
	4/29/2015	N/A	N/A	N/A	N/A	N/A	N/A	0.464	0.258	N/A	< 0.2	< 0.2	N/A	0.407	0.093	0.404	0.124	
	11/9/2015	< 0.2	N/A	< 0.2	< 0.2	N/A	0.227	< 0.2	N/A	0.603	< 0.2	< 0.2	N/A	0.432	< 0.2	0.312	< 0.2	
	4/19/2016	0.108	N/A	< 0.2	< 0.2	N/A	0.214	0.189	N/A	< 0.2	0.274	< 0.2	< 0.2	0.127	N/A	N/A	< 0.2	
	10/11/2016	0.132	N/A	< 0.2	< 0.2	N/A	0.244	0.212	N/A	0.608	0.633	0.236	0.58	0.106	N/A	N/A	< 0.2	
	4/26/2017	N/A	0.148	< 0.2	< 0.2	N/A	0.255	0.229	N/A	< 0.2	< 0.2	0.275	0.281	0.153	0.322	0.129	0.141	
	10/12/2017	< 0.2	N/A	< 0.2	< 0.2	N/A	0.194	0.18	N/A	< 0.2	< 0.2	0.35	0.31	< 0.2	0.228	0.183	0.11	
	4/25/2018	N/A	0.192	0.115	< 0.2	N/A	0.363	0.244	2.19	< 0.2	< 0.2	0.381	< 0.2	0.167	0.195	0.123	0.122	
	10/18/2018	N/A	0.161	< 0.2	< 0.2	N/A	0.259	0.248	N/A	0.233	< 0.2	0.485	< 0.2	0.131	0.248	0.214	< 0.2	
	4/26/2019	N/A	0.115	< 0.2	< 0.2	N/A	0.218	0.207	6.95	< 0.2	< 0.2	0.256	0.153	0.102	0.21	< 0.2	0.188	
	10/25/2019	0.16	0.189	0.19	< 0.2	N/A	0.232	0.247	N/A	0.503	< 0.2	0.45	1.04	0.155	0.212	0.239	0.111	
	4/16/2020	< 0.2	0.195	< 0.2	< 0.2	N/A	0.302	0.275	5.9	< 0.2	< 0.2	0.23	0.415	0.193	0.243	< 0.2	0.0755	
	10/22/2020	< 0.2	N/A	< 0.2	0.114	N/A	0.229	0.377	N/A	0.26	< 0.2	0.206	0.747	0.195	0.316	0.243	0.171*	
	4/22/2021	< 0.2	N/A	< 0.2	< 0.2	N/A	0.229	0.228	6.32	0.0795*	< 0.2	0.171*	< 0.2	0.104*	0.268	0.169*	< 0.2	
	4/22/2021	N/A	N/A	N/A	N/A	N/A	0.225	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	0.0887*	0.162*	0.0841*	< 0.2	N/A	0.229	0.212	N/A	0.155*	< 0.2	0.424	0.779	0.128*	0.246	0.188*	N/A	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	0.199*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	0.113*	0.175*	< 0.2	< 0.2	N/A	0.23	0.206	3.84	< 0.2	< 0.2	0.206	0.499	0.113*	0.256	0.153*	< 0.2	N/A
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.489	N/A	N/A	N/A	N/A
	10/27/2022	< 0.2	N/A	< 0.2	< 0.2	N/A	0.175*	0.155*	N/A	0.617	< 0.2	0.633	0.689	< 0.2	0.223	0.161*	N/A	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.156*	N/A	N/A
	4/27/2023	< 0.2	0.243	< 0.2	< 0.2	N/A	0.279	0.263	4.11	< 0.2	< 0.2	< 0.2	< 0.2	0.181*	0.313	< 0.2	< 0.2	N/A
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.297	N/A	N/A
	10/19/2023	< 0.2	N/A	< 0.2	< 0.2	N/A	0.165*	0.207	N/A	0.385	< 0.2	0.654	0.625	< 0.2	0.285	0.132*	N/A	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.255	N/A	N/A	N/A
	4/29/2024	0.216	0.325	< 0.2	0.125*	N/A	0.339	0.281	5.88	< 0.2	< 0.2	0.222	0.147*	0.329	0.414	0.335	< 0.2	N/A
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.497	N/A	N/A
	10/7/2024	N/A	N/A	< 0.5	< 0.5	N/A	0.218*	0.221*	N/A	0.411*	< 0.5	< 0.5	0.602	< 0.5	0.263*	0.719	N/A	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.379*	N/A	N/A
	4/29/2025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.358*	0.245*	2.97	< 0.5	< 0.5	0.319*	0.398*	0.311*	0.335*	0.243*	< 0.5	N/A
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	10/8/2025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.193*	0.174*	N/A	0.26	< 0.2	1.41	0.647	0.11*	0.233	0.199*	< 0.2	N/A
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.133*	N/A	N/A
Chloride, mg/L (CAS NO - 16887-00-6)	4/24/2001	N/A	N/A	N/A	N/A	N/A	4.4	N/A	N/A	N/A	N/A	N/A	3	4.6	N/A	N/A	N/A	
	7/25/2001	N/A	N/A	N/A	N/A	N/A	4.8	N/A	N/A	N/A	N/A	N/A	4	14	N/A	N/A	N/A	
	10/22/2001	N/A	N/A	N/A	N/A	N/A	4.9	N/A	N/A	N/A	N/A	N/A	5.1	6.7	N/A	N/A	N/A	
	1/8/2002	3	N/A	N/A	N/A	N/A	1.2	N/A	N/A	N/A	N/A	N/A	0.41	1.9	N/A	N/A	N/A	
	4/24/2002	5.3	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	3.8	5.2	N/A	N/A	N/A	
	10/23/2003	19	N/A	4.6	N/A	N/A	4.1	N/A	N/A	N/A	N/A	N/A	3.2	8.3	N/A	N/A	N/A	
	4/27/2004	22	N/A	5.7	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	74.4	
	7/20/2004	10.8	N/A	5.3	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	5.9	24	N/A	N/A	48.4	
	10/29/2004	11.2	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	5.9	< 5	N/A	N/A	N/A	
	4/26/2005	7.5	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	
	10/24/2005	6.14	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	36.8	
	4/24/2006	6.02	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	5.79	< 5	N/A	N/A	28.6	
	10/25/2006	9.4	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	6.4	< 5	N/A	N/A	N/A	
	4/24/2007	6.67	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	24.1	
	10/31/2007	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	6.84	N/A	N/A	N/A	20.7	
	10/30/2008	< 5	N/A	< 5	N/A	N/A	< 5	N/A	N/A									

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG	
Other Constituents	Chloride, mg/L (CAS NO - 16887-00-6)	4/29/2024 3.64	3.89	5.44	19.9	N/A	1.64	3.75	2180	36.2	188	640	31.3	19.5	27	4.01	76.1	
		4/29/2024 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.9	N/A	N/A	
		10/7/2024 N/A	N/A	4.89*	22.5	N/A	3.68*	4.28*	N/A	31	157	703	28.9	12.7	21.5	3.6*	N/A	
		10/7/2024 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22.7	N/A	N/A	
		4/29/2025 4.02*	4.2*	5.71	19.2	19.1	3.47*	4.15*	1500	34.8	169	657	31.7	20.2	27.1	4.28*	43.6	
		4/29/2025 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.22*	N/A	
		10/8/2025 3.23*	3.06*	5.29	19.1	20.3	3.15*	3.32*	N/A	30.9	185	705	30.6	15.9	24	3.34*	43.6	
		10/8/2025 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.35*	N/A	
		4/25/2013 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	N/A	N/A
		10/1/2013 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	N/A
Nitrate/Nitrite as N, mg/L (CAS NO - 1594-56-5xx)	4/15/2014 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	N/A	
	10/2/2014 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	0.174	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	N/A	
	4/29/2015 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	0.355	< 0.1	N/A	< 0.1	< 0.1	0.395	< 0.1	N/A	
	6/17/2015 0.153	N/A	N/A	0.141	0.236	N/A	N/A	N/A	N/A	0.354	0.0759	N/A	N/A	N/A	N/A	N/A	N/A	
	11/9/2015 < 0.1	N/A	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	4/19/2016 < 0.1	N/A	N/A	0.167	0.518	N/A	< 0.1	< 0.1	N/A	0.248	< 0.1	< 0.1	0.212	< 0.1	N/A	N/A	0.0922	
	10/11/2016 < 0.1	N/A	N/A	< 0.1	0.273	N/A	< 0.1	< 0.1	N/A	0.0923	< 0.1	< 0.1	< 0.1	< 0.1	N/A	N/A	0.132	
	4/26/2017 N/A	< 0.1	0.0942	0.305	N/A	< 0.1	< 0.1	< 0.1	N/A	0.163	0.0973	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.159	
	10/12/2017 < 0.1	N/A	< 0.1	0.511	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.141	
	4/25/2018 N/A	< 0.1	0.137	0.379	N/A	< 0.1	< 0.1	1.27	0.0889	< 0.1	< 0.1	0.533	< 0.1	< 0.1	< 0.1	< 0.1	0.309	
	10/18/2018 N/A	< 0.1	< 0.1	0.303	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	0.521	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	0.387	
	4/26/2019 N/A	< 0.1	< 0.1	0.126	0.393	N/A	< 0.1	< 0.1	2.07	0.12	0.246	0.0735	0.467	< 0.1	0.0664	< 0.1	0.151	
	10/25/2019 < 0.1	< 0.1	< 0.1	< 0.1	0.275	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0861	< 0.1	< 0.1	
	4/16/2020 0.0817	< 0.1	0.0719	0.358	N/A	< 0.1	< 0.1	2.53	0.211	0.463	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0862	0.407	
	10/22/2020 0.113	N/A	< 0.1	0.28	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	0.441	0.0729	< 0.1	< 0.1	< 0.1	< 0.1	0.0681*	
	4/22/2021 0.152	N/A	N/A	0.118	0.4	N/A	< 0.1	< 0.1	1.74	0.112	0.132	0.0775*	0.835	< 0.1	< 0.1	< 0.1	0.126	
	4/22/2021 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2021 < 0.1	< 0.1	< 0.1	< 0.1	0.277	N/A	< 0.1	< 0.1	N/A	< 0.1	0.0803*	0.112	< 0.1	< 0.1	< 0.1	< 0.1	N/A	
	10/21/2021 N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/28/2022 0.0428*	0.0347*	0.0981*	0.376	N/A	< 0.1	< 0.1	1.08	0.107	0.0786*	0.233	< 0.1	0.0331*	< 0.1	0.0569*	0.192		
	4/28/2022 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	
	10/27/2022 0.065*	N/A	< 0.1	0.288	N/A	< 0.1	< 0.1	N/A	< 0.1	0.0707*	0.0764*	< 0.1	0.0508*	< 0.1	< 0.1	< 0.1	N/A	
	10/27/2022 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	
	4/27/2023 < 0.1	< 0.1	< 0.1	< 0.1	0.307	N/A	< 0.1	< 0.1	1.01	0.115	< 0.1	0.491	0.478	< 0.1	< 0.1	0.0877*	0.296	
	4/27/2023 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A
	10/19/2023 0.199	N/A	< 0.1	0.37	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	0.124	0.213	0.0573*	0.0578*	< 0.1	< 0.1	N/A	
	10/19/2023 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	
	4/29/2024 < 0.1	< 0.1	< 0.1	0.0916*	0.363	N/A	< 0.1	< 0.1	1.55	0.179	< 0.1	0.896*	< 1	< 0.1	< 0.1	< 0.1	< 0.1	
	4/29/2024 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	
	10/7/2024 N/A	N/A	N/A	< 0.1	0.435	N/A	< 0.1	< 0.1	N/A	< 0.1	0.0862*	0.408	< 0.1	0.139	< 0.1	< 0.1	N/A	
	10/7/2024 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	
	4/29/2025 0.101	< 0.1	0.128	0.268	0.202	< 0.1	< 0.1	2.39	0.128	< 0.1	0.526	0.249	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	4/29/2025 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.111	N/A	
	10/8/2025 < 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0989*	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	10/8/2025 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	
	pH, S.U. (CAS NO - PH)	10/22/2001 N/A	N/A	N/A	N/A	N/A	N/A	8.43	N/A	N/A	N/A	N/A	N/A	7.27	7.25	N/A	N/A	N/A
		1/8/2002 N/A	N/A	N/A	N/A	N/A	N/A	8.7	N/A	N/A	N/A	N/A	N/A	7.31	7.33	N/A	N/A	N/A
		4/24/2002 N/A	N/A	N/A	N/A	N/A	N/A	7.97	N/A	N/A	N/A	N/A	N/A	6.7	6.65	N/A	N/A	N/A
		10/23/2003 N/A	N/A	N/A	8.31	N/A	N/A	8.36	N/A	N/A	N/A	N/A	N/A	7.15	7.61	N/A	N/A	N/A
		7/20/2004 8.56	N/A	N/A	8.59	N/A	N/A	7.95	N/A	N/A	N/A	N/A	N/A	8.64	8.28	N/A	N/A	8.67
		10/29/2004 7.52	N/A	N/A	7.15	N/A	N/A	9.58	N/A	N/A	N/A	N/A	N/A	8.35	8.42	N/A	N/A	N/A
		10/31/2007 N/A	N/A	N/A	7.84	N/A	N/A	10.7	N/A	N/A	N/A	N/A	N/A	8.3	N/A	N/A	N/A	8.5
		10/30/2008 7.98	N/A	N/A	7.53	N/A	N/A	9.51	N/A	N/A	N/A	N/A	N/A	N/A	9.03	N/A	N/A	N/A
		4/16/2009 7.88	N/A	N/A	7.78	N/A	N/A	9.64	N/A	N/A	N/A	N/A	N/A	8.95	9.96	N/A	N/A	7.8
		10/12/2009 N/A	N/A	N/A	7.84	N/A	N/A	9.79	N/A	N/A	N/A	N/A	N/A	8.44	8.48	N/A	N/A	7.8
4/16/2010 8.03		N/A	N/A	N/A	N/A	N/A	10.79	N/A	N/A	9.22	8.07	N/A	8.7	8.33	N/A	N/A	N/A	
10/7/2010 8.15		N/A	N/A	N/A	N/A	N/A	7.61	N/A	N/A	7.55	7.5							

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-102R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG	
Other Constituents Phosphorus, mg/L (CAS NO - 7723-14-0)	4/26/2019	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	5.3	0.144	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0867	
	10/25/2019	< 0.1	< 0.1	< 0.1	< 0.1	N/A	0.123	< 0.1	N/A	0.167	< 0.1	< 0.1	< 0.1	< 0.1	1.19	< 0.1	0.0412	
	4/16/2020	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	4.18	0.115	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0696	
	10/22/2020	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	0.281	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0635*	
	4/22/2021	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	7.76	0.45	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.0609*	
	4/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	10/21/2021	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	0.0836*	< 0.1	< 0.1	0.0431*	< 0.1	< 0.1	< 0.1	N/A	
	10/21/2021	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/28/2022	0.0648*	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	4.21	0.277	< 0.1	< 0.1	0.197	< 0.1	< 0.1	< 0.1	0.0819*	
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	N/A	N/A	N/A	N/A	
	10/27/2022	0.0426*	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	0.381	< 0.1	< 0.1	0.0757*	< 0.1	< 0.1	< 0.1	N/A	
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	4/27/2023	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	4.98	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	
	10/19/2023	< 0.1	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	0.101	< 0.1	< 0.1	0.079*	< 0.1	< 0.1	< 0.1	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A
	4/29/2024	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	2.46	0.0818*	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A
	10/7/2024	N/A	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A
	4/29/2025	0.175	0.108	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.35	0.392	< 0.1	< 0.1	0.0899*	< 0.1	< 0.1	< 0.1	< 0.1	0.068*
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
	10/8/2025	0.123	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A	< 0.1	< 0.1	< 0.1	0.122	< 0.1	< 0.1	< 0.1	0.127
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A
Specific Conductance, umhos/cm (CAS NO - SPECCON)	10/22/2001	N/A	N/A	N/A	N/A	N/A	572	N/A	N/A	N/A	N/A	N/A	667	856	N/A	N/A	N/A	
	1/8/2002	N/A	N/A	N/A	N/A	N/A	398	N/A	N/A	N/A	N/A	N/A	460	601	N/A	N/A	N/A	
	4/24/2002	N/A	N/A	N/A	N/A	N/A	583	N/A	N/A	N/A	N/A	N/A	643	808	N/A	N/A	N/A	
	10/23/2003	N/A	N/A	3536	N/A	N/A	549	N/A	N/A	N/A	N/A	N/A	635	1097	N/A	N/A	N/A	
	4/27/2004	2800	N/A	3500	N/A	N/A	550	N/A	N/A	N/A	N/A	N/A	660	N/A	N/A	N/A	1600	
	7/20/2004	2000	N/A	3400	N/A	N/A	430	N/A	N/A	N/A	N/A	N/A	450	N/A	N/A	N/A	1300	
	10/29/2004	2400	N/A	3300	N/A	N/A	310	N/A	N/A	N/A	N/A	N/A	540	920	N/A	N/A	N/A	
	10/31/2007	N/A	N/A	2410	N/A	N/A	238	N/A	N/A	N/A	N/A	N/A	449	N/A	N/A	N/A	677	
	10/30/2008	1778	N/A	2560	N/A	N/A	469	N/A	N/A	N/A	N/A	N/A	N/A	878	N/A	N/A	N/A	
	4/16/2009	1760	N/A	2730	N/A	N/A	4520	N/A	N/A	N/A	N/A	N/A	5710	4650	N/A	N/A	N/A	
	10/12/2009	N/A	N/A	1700	N/A	N/A	1180	N/A	N/A	N/A	N/A	N/A	5800	7380	N/A	N/A	N/A	
	4/16/2010	1649	N/A	N/A	N/A	N/A	277	N/A	N/A	491	1052	N/A	585	706	N/A	N/A	N/A	
	10/7/2010	1355	N/A	N/A	N/A	N/A	584	N/A	N/A	1710	1205	N/A	617	692	N/A	N/A	N/A	
	4/21/2011	1306	N/A	N/A	N/A	N/A	521	N/A	N/A	2240	1320	N/A	593	724	N/A	N/A	N/A	
	10/11/2011	N/A	N/A	N/A	2480	N/A	209	N/A	N/A	1990	1471	N/A	544	781	N/A	N/A	N/A	
	4/24/2012	1461	N/A	1973	1784	N/A	415	N/A	N/A	1908	1384	N/A	623	809	N/A	N/A	N/A	
	10/4/2012	N/A	N/A	2710	2680	N/A	465	N/A	N/A	1974	1487	N/A	594	748	N/A	N/A	N/A	
	4/25/2013	N/A	N/A	N/A	N/A	N/A	398	N/A	N/A	1760	1080	N/A	454	613	N/A	N/A	N/A	
	10/1/2013	N/A	N/A	N/A	N/A	N/A	941	747	N/A	2870	1930	N/A	704	953	1158	823	N/A	
	4/15/2014	N/A	N/A	N/A	N/A	N/A	738	573	N/A	2780	1900	N/A	645	879	1087	722	N/A	
	10/2/2014	N/A	N/A	N/A	N/A	N/A	676	725	N/A	2910	2500	N/A	693	952	1130	664	N/A	
	4/29/2015	N/A	N/A	N/A	N/A	N/A	779	655	N/A	2662	2273	N/A	609	819	1039	694	905	
	6/17/2015	1969	N/A	3372	3712	N/A	N/A	N/A	N/A	2648	2320	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/9/2015	1708	N/A	2908	3219	N/A	652	649	N/A	2589	2334	N/A	639	854	1024	697	1144	
	4/19/2016	3260	N/A	5817	6570	N/A	1112	1186	N/A	5154	8696	3421	1092	1519	N/A	N/A	1606	
	10/11/2016	1680	N/A	3266	3774	N/A	630	668	N/A	3231	5465	2850	687	794	N/A	N/A	744	
	4/26/2017	N/A	978	2494	2842	N/A	486	508	N/A	2384	2607	2342	584	669	843	586	394	
	10/12/2017	1473	N/A	2997	3575	N/A	617	634	N/A	2336	3240	2774	1078	726	946	669	1443	
	4/25/2018	N/A	899	3297	4288	N/A	N/A	N/A	33073	3890	2942	3890	N/A	N/A	N/A	N/A	1329	
	10/18/2018	N/A	1166	3127	3595	N/A	N/A	N/A	N/A	3131	5281	3768	N/A	N/A	N/A	N/A	748	
	4/26/2019	1012.5	810	3045	3472	N/A	629	668	47146	3009	4350	3901	1289	792	914	702	858.6	
	10/25/2019	1079	N/A	3212	3665	N/A	650	688	N/A	3291	4080	4198	1388	783	944	718	986	
	4/16/2020	895.8	736.5	2974.6	3354.7	N/A	595.7	634.4	3999	2951.1	4061.3	4086.8	1136	763.4	891	671	1098	
	10/22/2020	903.3	N/A	3015.1	3392.2	N/A	600.8	636.9	N/A	3147.8	3957.3	4050.1	1081.1	724.8	901.5	672.2	1356	
	4/22/2021	920.1	N/A	2945.8	3318.5	N/A	599.1	627.8	3999	2994	3445.7	4199.5	1069.2	768.5	889	664.7	1364	
	10/21/2021	819	698.7	2724.9	3048.4	N/A	553.2											

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Other Constituents																	
	Sulfate, mg/L (CAS NO - 14808-79-8)																
	10/7/2024	N/A	N/A	1510	1770	N/A	< 5	16.5	N/A	1600	1340	2300	119	68.9	144	30.3	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	149	N/A	N/A
	4/29/2025	250	118	1520	1750	1760	< 5	15.6	4700	1630	1370	2370	129	101	155	26.5	113
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.5	N/A
Total Dissolved Solids, mg/L (CAS NO - TDS)	10/8/2025	346	134	1470	1790	1770	2.1*	15.6	N/A	1640	1460	2430	136	100	158	26.6	93.6
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	26.8	N/A
	4/24/2001	N/A	N/A	N/A	N/A	N/A	400	N/A	N/A	N/A	N/A	N/A	390	590	N/A	N/A	N/A
	7/25/2001	N/A	N/A	N/A	N/A	N/A	360	N/A	N/A	N/A	N/A	N/A	370	630	N/A	N/A	N/A
	10/22/2001	N/A	N/A	N/A	N/A	N/A	220	N/A	N/A	N/A	N/A	N/A	320	470	N/A	N/A	N/A
	1/8/2002	2500	N/A	N/A	N/A	N/A	290	N/A	N/A	N/A	N/A	N/A	360	490	N/A	N/A	N/A
	4/24/2002	N/A	N/A	N/A	N/A	N/A	370	N/A	N/A	N/A	N/A	N/A	400	570	N/A	N/A	N/A
	10/23/2003	680	N/A	3500	N/A	N/A	210	N/A	N/A	N/A	N/A	N/A	370	920	N/A	N/A	N/A
	4/27/2004	1800	N/A	3500	N/A	N/A	290	N/A	N/A	N/A	N/A	N/A	1000	N/A	N/A	N/A	1100
	7/20/2004	1800	N/A	3300	N/A	N/A	260	N/A	N/A	N/A	N/A	N/A	340	N/A	N/A	N/A	890
	10/29/2004	2300	N/A	3300	N/A	N/A	260	N/A	N/A	N/A	N/A	N/A	370	680	N/A	N/A	N/A
	4/26/2005	1800	N/A	540	N/A	N/A	180	N/A	N/A	N/A	N/A	N/A	N/A	3100	N/A	N/A	N/A
	10/24/2005	1530	N/A	2870	N/A	N/A	268	N/A	N/A	N/A	N/A	N/A	N/A	464	N/A	N/A	620
	4/24/2006	1570	N/A	2300	N/A	N/A	166	N/A	N/A	N/A	N/A	N/A	406	514	N/A	N/A	552
	10/25/2006	1510	N/A	2800	N/A	N/A	233	N/A	N/A	N/A	N/A	N/A	404	532	N/A	N/A	N/A
	4/24/2007	1380	N/A	1930	N/A	N/A	196	N/A	N/A	N/A	N/A	N/A	N/A	580	N/A	N/A	468
	10/31/2007	N/A	N/A	2090	N/A	N/A	90	N/A	N/A	N/A	N/A	N/A	318	N/A	N/A	N/A	440
	10/30/2008	1150	N/A	2570	N/A	N/A	304	N/A	N/A	N/A	N/A	N/A	N/A	670	N/A	N/A	N/A
	4/16/2009	1410	N/A	2440	N/A	N/A	296	N/A	N/A	N/A	N/A	N/A	435	488	N/A	N/A	N/A
	10/12/2009	N/A	N/A	2540	N/A	N/A	222	N/A	N/A	N/A	N/A	N/A	364	476	N/A	N/A	N/A
	10/12/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	524	N/A	N/A	N/A
	4/16/2010	1680	N/A	N/A	N/A	N/A	140	N/A	N/A	N/A	N/A	N/A	334	430	N/A	N/A	N/A
	10/7/2010	1600	N/A	N/A	1790	N/A	312	N/A	N/A	N/A	N/A	N/A	360	372	N/A	N/A	N/A
	4/21/2011	1110	N/A	N/A	1540	N/A	310	N/A	N/A	N/A	N/A	N/A	350	448	N/A	N/A	N/A
	10/11/2011	1260	N/A	2400	2260	N/A	185	N/A	N/A	N/A	N/A	N/A	380	470	N/A	N/A	N/A
	4/24/2012	1290	N/A	2370	1890	N/A	234	N/A	N/A	N/A	N/A	N/A	342	466	N/A	N/A	N/A
	10/4/2012	N/A	N/A	2850	2630	N/A	276	N/A	N/A	N/A	N/A	N/A	382	526	N/A	N/A	N/A
	11/1/2012	N/A	N/A	2920	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/25/2013	N/A	N/A	N/A	N/A	N/A	272	N/A	N/A	2290	1340	N/A	362	488	N/A	N/A	N/A
	10/1/2013	N/A	N/A	N/A	N/A	N/A	454	426	N/A	2860	2120	N/A	356	556	824	480	N/A
	4/15/2014	N/A	N/A	N/A	N/A	N/A	440	424	N/A	2340	1450	N/A	356	548	668	442	N/A
	10/2/2014	N/A	N/A	N/A	N/A	N/A	362	384	N/A	2540	2020	N/A	366	528	668	402	N/A
	4/29/2015	N/A	N/A	N/A	N/A	N/A	362	358	N/A	2540	2050	N/A	334	496	658	386	588
	11/9/2015	1460	N/A	3170	3600	N/A	360	396	N/A	2860	2370	N/A	440	548	728	420	794
	4/19/2016	1330	N/A	3050	3590	N/A	328	390	N/A	2880	4300		364	494	N/A	N/A	516
	10/11/2016	660	N/A	3390	4090	N/A	450	406	N/A	3160	4460	2940	398	566	N/A	N/A	536
	4/26/2017	N/A	682	3350	3820	N/A	386	488	N/A	3350	3290	3160	696	530	746	438	482
	10/12/2017	1170	N/A	3620	4390	N/A	386	430	N/A	2970	3730	3250	770	554	656	476	956
	4/25/2018	N/A	490	2740	3560	N/A	332	340		2750	2890	3220	636	478	538	386	474
	10/18/2018	N/A	552	2850	3390	N/A	362	362	N/A	3010	4010	3420	786	370	522	358	496
	4/26/2019	N/A	488	2730	3260	N/A	335	372	34300	2930	3420	3620	864	438	550	378	560
	10/25/2019	802	482	3100	3650	N/A	306	390	N/A	3300	3610	4000	834	432	582	406	656
	4/16/2020	706	430	2830	3190	N/A	330	336	34300	2840	3270	3780	748	468	556	396	748
	10/22/2020	694	N/A	2910	3300	N/A	422	414	N/A	3400	4270	4210	832	388	568	358	972
	4/22/2021	728	N/A	2740	3210	N/A	282	296	29900	2660	2570	3740	654	404	536	328	740
	4/22/2021	N/A	N/A	N/A	N/A	N/A	276	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	762	356	2400	2390	N/A	248	268	N/A	2520	2310	3730	684	392	504	284	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	246	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	630	402	2490	2780	N/A	66	314	17200	2560	2610	3980	576	402	524	302	636
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	596	N/A	N/A	N/A	N/A
	10/27/2022	728	N/A	2660	3230	N/A	280	306	N/A	2790	2710	4120	396	522	318	N/A	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	330	N/A
	4/27/2023	734	368	2720	2970	N/A	272	294	23800	2650	2640	4190	500	398	532	322	582
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	546	N/A	N/A
	10/19/2023	650	N/A	2800	3180	N/A	314	340	N/A	2920	2920	4620	576	356	588	370	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	592	N/A	N/A
	4/29/2024	824	480	2610	3100	N/A	312	338	20600	2750	2830	4800	458	432	566	354	808
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	574	N/A	N/A
	10/7/2024	N/A	N/A	2540	3100	N/A	296	320	N/A	2810	2780	4670	522	386	550	342	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	564	N/A	N/A
	4/29/2025	834	522	2750	3060	3130	318	340	19900	2870	2770	5190	496	460	572	360	550
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	364	N/A
	10/8/2025	832	550	2520	3110	2900	328	336	N/A	2760	2800	5250	626	382	692	354	652
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	380	N/A
	4/25/2013	N/A	N/A	N/A	N/A	N/A	441	N/A	N/A	1730	1260	N/A	578	441	N/A	N/A	N/A
	10/1/2013	N/A	N/A	N/A	N/A	N/A	218	322	N/A	1750	1080	N/A	312	426	489	364	N/A
	4/15/2014	N/A	N/A	N/A	N/A	N/A	362	372	N/A	1750	1300	N/A	314	541	561	393	N/A
	10/2/2014	N/A	N/A	N/A	N/A	N/A	312	332	N/A	1880	1750	N/A	296	456	540	364	N/A
	4/29/2015	N/A	N/A	N/A	N/A	N/A	867	344	N/A	1860	1530	N/A	301	458	527	366	283
	11/9/2015	888	N/A	2290	2570	N/A	316	343	N/A	2020	1760	N/A	301	449	557	372	470
	4/19/2016	1140	N/A	2150	2380	N/A	349	344	N/A	2040	1790	1090	290	454	N/A	N/A	285
	10/11/2016	504	N/A	1970	2420	N/A	329	337	N/A	1980	1860	1410	299	393	N/A	N/A	151
	4/26/2017	N/A	516	2270	2540	N/A	325	362	N/A	2040	1980	1880	402	408	526	385	203
	10/12/2017	730	N/A	2020	2350	N/A	317	327	N/A	1880	1880	2360	564	420	474	341	472
	4/25/2018	N/A	488	2060	2520	N/A	318	334	43.6	1820	1870	1980	526	399	455	368	215
	10/18/2018	N/A	513	2240	2510	N/A	311	327	N/A	2190	1820	2090	559	340	457	393	165
	4/26/2019	N/A	446	2430	2630	N/A	331	363	102	2270	1940	2760	664	426	496	413	233
	10/25/2019	609	407	1980	2240	N/A	318	335	N/A	2450	1900	2430	633	356	472	363	293
	4/16/2020	716	436	2320	2570	N/A	331	353	72.5	2100	1960	2720	576	411	496	386	169

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Summary of Groundwater Chemistry
Lehigh-Mason City Cement Manufacturing Waste Landfill - 17-SDP-08-99P

	Sample Date	MW-101R-NP UPG	MW-101R-RC UPG	MW-102R-NP DNG	MW-103R-NP DNG	MW-103R-RC UPG	MW-203R UPG	MW-205 UPG	PHASE1,2,3SUMP-C UPG	LDR-1 DNG	LDR-2 DNG	LDR-3 DNG	MW-201 DNG	MW-202R DNG	MW-204 DNG	MW-206 DNG	SW-1/OUTFALL4 DNG
Other Constituents	4/29/2025	717	455	2170	2310	2380	307	334	146	2090	2060	3010	443	410	493	364	249
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	338	N/A
	10/8/2025	788	478	2150	2570	2590	329	348	N/A	2160	2340	3800	522	352	517	371	304
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	352	N/A
Total Kjeldahl Nitrogen, mg/L (CAS NO - TKN)	4/25/2013	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	<1	<1	N/A	<1	<1	N/A	N/A	N/A
	10/1/2013	N/A	N/A	N/A	N/A	N/A	1.05	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	N/A
	4/15/2014	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	N/A
	10/2/2014	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	N/A
	4/29/2015	N/A	N/A	N/A	N/A	N/A	0.625	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	1.15
	11/9/2015	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	2.62
	4/19/2016	<1	N/A	<1	<1	N/A	<1	<1	N/A	0.696	0.798	<1	<1	<1	N/A	N/A	0.675
	10/11/2016	<1	N/A	<1	<1	N/A	<1	0.544	N/A	0.861	0.893	0.657	0.738	<1	N/A	N/A	0.95
	4/26/2017	N/A	<1	<1	<1	N/A	0.486	<1	N/A	<1	<1	0.533	0.622	<1	0.469	<1	1.13
	10/12/2017	<1	N/A	<1	<1	N/A	0.426	<1	N/A	<1	<1	0.992	0.618	<1	0.491	<1	1.04
	4/25/2018	N/A	0.773	0.818	<1	N/A	0.555	0.53	6.54	<1	<1	0.637	0.365	0.562	0.403	<1	0.885
	10/18/2018	N/A	0.51	0.36	<1	N/A	0.499	0.442	N/A	0.43	0.566	0.751	0.403	0.342	0.341	0.484	1.49
	4/26/2019	N/A	<1	<1	<1	N/A	0.508	0.489	18.5	0.645	<1	0.444	0.491	<1	0.552	<1	1.33
	10/25/2019	<1	<1	<1	<1	N/A	<1	<1	N/A	0.634	<1	0.559	1.16	<1	<1	<1	0.683
	4/16/2020	<1	<1	<1	<1	N/A	0.497	0.448	15.6	<1	<1	0.61	0.677	0.533	0.622	<1	0.98
	10/22/2020	<1	N/A	<1	<1	N/A	0.458	<1	N/A	1.14	<1	<1	0.816	<1	0.443	<1	0.908*
	4/22/2021	<1	N/A	<1	<1	N/A	<1	<1	15.1	<1	<1	<1	<1	<1	<1	<1	0.883*
	4/22/2021	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	<1	<1	<1	<1	N/A	<1	<1	N/A	0.479*	<1	<1	0.851*	<1	<1	<1	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	<1	<1	<1	<1	N/A	<1	<1	9.4	<1	<1	<1	<1	<1	<1	<1	0.446*
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A
	10/27/2022	<1	N/A	<1	<1	N/A	<1	<1	N/A	0.851*	<1	0.707*	0.774*	<1	0.427*	0.48*	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A
	4/27/2023	<1	<1	<1	<1	N/A	<1	<1	10.4	<1	<1	<1	<1	<1	<1	<1	1.01
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/19/2023	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	<1	0.646*	<1	<1	<1	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	N/A
	4/29/2024	<1	<1	<1	<1	N/A	<1	<1	9.68	<1	<1	<1	<1	<1	<1	<1	<1
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	10/7/2024	N/A	N/A	<1	<1	N/A	<1	<1	N/A	<1	<1	0.617*	0.601*	<1	<1	<1	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A
	4/29/2025	<1	<1	<1	<1	<1	<1	<1	5.39	<1	<1	<1	<1	<1	<1	<1	<1
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A
	10/8/2025	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	1.22	1.35	<1	0.639*	<1	<1
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A
Total Organic Carbon, mg/L (CAS NO - TOC)	4/25/2013	N/A	N/A	N/A	N/A	N/A	1.84	N/A	N/A	<1	1.4	N/A	1	<1	N/A	N/A	N/A
	10/1/2013	N/A	N/A	N/A	N/A	N/A	1.58	<1	N/A	<1	1.44	N/A	1.01	<1	1.47	<1	N/A
	4/15/2014	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	<1	1.25	N/A	<1	<1	1.2	<1	N/A
	10/2/2014	N/A	N/A	N/A	N/A	N/A	<1	<1	N/A	<1	1.14	N/A	<1	<1	<1	<1	N/A
	4/29/2015	N/A	N/A	N/A	N/A	N/A	1.14	0.724	N/A	0.786	1.28	N/A	1.05	1.01	1.34	0.765	6.9
	11/9/2015	<1	N/A	<1	<1	N/A	<1	<1	N/A	<1	1.19	N/A	<1	<1	1.05	<1	14.4
	4/19/2016	2.24	N/A	2.84	2.75	N/A	5.51	3.87	N/A	17.5	2.81	13.2	14	2.28	N/A	N/A	13.4
	10/11/2016	1.22	N/A	0.962	0.701	N/A	0.847	0.657	N/A	0.842	0.7	7.86	1.21	0.934	N/A	N/A	5.89
	4/26/2017	N/A	0.635	0.751	0.661	N/A	0.682	0.59	N/A	0.808	1.39	5.96	1.13	0.762	1.35	0.811	4.58
	10/12/2017	0.888	N/A	1.08	0.776	N/A	0.994	0.729	N/A	0.731	1.27	6.04	1.62	0.926	1.26	0.737	7.8
	4/25/2018	N/A	0.68	1.54	0.692	N/A	0.808	0.656	22.5	0.957	1.29	4.45	1.44	0.82	0.977	0.729	5.77
	10/18/2018	N/A	0.965	1.65	1.31	N/A	1.05	0.964	N/A	1.25	2.12	4.69	1.81	1.1	1.24	0.952	3.9
	4/26/2019	N/A	1.38	0.858	0.722	N/A	0.825	0.671	58.4	1.02	1.84	3.33	1.87	0.904	1.05	0.859	4.1
	10/25/2019	0.852	0.812	1.26	1	N/A	1.05	0.861	N/A	1.31	1.94	3.41	2.15	1.07	1.19	0.843	5.58
	4/16/2020	0.884	0.945	1.26	1.04	N/A	1.33	1.23	101	1.47	2.31	2.78	2.62	1.54	1.51	1.44	5.35
	10/22/2020	0.708	N/A	0.885	0.69	N/A	0.819	0.856	N/A	0.943	1.44	1.98	1.72	0.959	0.978	0.8	5.67
	4/22/2021	1.54	N/A	1.5	1.31	N/A	1.48	1.19	123	1.06	7.91	1.36	2.11	1.45	1.46	1.2	1.92
	4/22/2021	N/A	N/A	N/A	N/A	N/A	1.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2021	1.04	2.03	1.43	2.45	N/A	1.39	1.1	N/A	1.93	2.83	3.67	2.45	1.76	1.84	1.6	N/A
	10/21/2021	N/A	N/A	N/A	N/A	N/A	N/A	1.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/28/2022	2.13	1.69	3.2	3.92	N/A	1.75	1.49	35.7	2.78	4.27	4.64	2.77	1.85	1.58	2.15	8.96
	4/28/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.95	N/A	N/A	N/A	N/A
	10/27/2022	0.866*	N/A	1.24	0.996*	N/A	1.05	0.966*	N/A	1.24	1.56	2.11	1.62	0.969*	1.24	0.978*	N/A
	10/27/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.901*	N/A
	4/27/2023	0.878*	0.91*	1.05	0.782*	N/A	1.02	0.91*	55.7	1.06	1.43	1.78	1.34	1.01	1.1	0.897*	6.8
	4/27/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A	N/A
	10/19/2023	0.866*	N/A	1.3	0.787*	N/A	0.971*	0.895*	N/A	1.13	1.37	1.88	1.49	1.01	1.27	0.949*	N/A
	10/19/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.17	N/A	N/A
	4/29/2024	0.996*	0.982*	1.34	1.06	N/A	1.17	1.02	40.3	1.32	1.41	0.956*	1.48	1.34	1.32	1.04	5.2
	4/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.73	N/A	N/A
	10/7/2024	N/A	N/A	1.52	1.39	N/A	1.23	1.16	N/A	1.41	1.24	0.68*	1.62	1.09	1.35	1.13	N/A
	10/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/29/2025	1.05	1.14	1.36	1.35	1.25	1.27	1.17	42.6	1.45	1.46	1.06	1.73	1.41	1.48	1.16	9.83
	4/29/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.16	N/A
	10/8/2025	1.38	1.38	1.69	1.54	1.56	1.66	1.5	N/A	1.87	1.82	1.38	1.95	1.55	1.78	1.34	7.45
	10/8/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix D
Statistical Report

Attachment A

Trend Test ($\alpha=0.01$)

Trend Test

CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS Printed 10/29/2025, 4:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Alkalinity, Total [CaCO3] (mg/L)	LDR-1	17.09	6	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	LDR-2	20.02	8	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	LDR-3	7.619	4	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-101R-NP (bg)	-16.55	-4	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-102R-NP	6.966	4	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-103R-NP	-9.004	-6	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-201	0.8652	0	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-202R	0.4529	3	21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-203R (bg)	-1.525	-1	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-204	-9.886	-2	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-205 (bg)	-1.764	-2	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	MW-206	-7.101	-11	-21	No	8	0	0.01	NP
Alkalinity, Total [CaCO3] (mg/L)	SW-1/OUTFALL4	29.58	12	21	No	8	0	0.01	NP
Aluminum (mg/L)	LDR-1	-0.02338	-3	-21	No	8	25	0.01	NP
Aluminum (mg/L)	MW-101R-NP (bg)	0.02622	3	21	No	8	25	0.01	NP
Aluminum (mg/L)	SW-1/OUTFALL4	-0.06993	-16	-21	No	8	0	0.01	NP
Ammonia as N (mg/L)	LDR-1	0.01127	3	21	No	8	50	0.01	NP
Ammonia as N (mg/L)	LDR-3	0.1002	12	21	No	8	25	0.01	NP
Ammonia as N (mg/L)	MW-101R-NP (bg)	0.006562	10	21	No	8	62.5	0.01	NP
Ammonia as N (mg/L)	MW-201	0.02765	2	21	No	8	12.5	0.01	NP
Ammonia as N (mg/L)	MW-202R	0.0518	7	21	No	8	37.5	0.01	NP
Ammonia as N (mg/L)	MW-203R (bg)	0.0166	4	21	No	8	0	0.01	NP
Ammonia as N (mg/L)	MW-204	0.01999	8	21	No	8	0	0.01	NP
Ammonia as N (mg/L)	MW-205 (bg)	0.006285	4	21	No	8	0	0.01	NP
Ammonia as N (mg/L)	MW-206	0.02901	10	21	No	8	12.5	0.01	NP
Ammonia as N (mg/L)	SW-1/OUTFALL4	0	6	21	No	8	75	0.01	NP
Arsenic (mg/L)	LDR-1	-0.000258	-5	-21	No	8	37.5	0.01	NP
Arsenic (mg/L)	LDR-2	0	-1	-21	No	8	75	0.01	NP
Arsenic (mg/L)	LDR-3	0	1	21	No	8	50	0.01	NP
Arsenic (mg/L)	MW-101R-NP (bg)	0.0003699	6	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-201	-0.0003412	-15	-21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-203R (bg)	0	7	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-204	0	5	21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-205 (bg)	0	7	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	SW-1/OUTFALL4	-0.00004426	-5	-21	No	8	12.5	0.01	NP
Bicarbonate (mg/L)	LDR-1	17.09	6	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	LDR-2	20.02	8	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	LDR-3	7.619	4	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-101R-NP (bg)	5.909	4	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-102R-NP	-0.2928	0	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-103R-NP	-13.74	-12	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-201	0.8652	0	21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-202R	-2.881	-1	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-203R (bg)	-1.525	-1	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-204	-9.886	-2	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-205 (bg)	-1.764	-2	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	MW-206	-7.101	-11	-21	No	8	0	0.01	NP
Bicarbonate (mg/L)	SW-1/OUTFALL4	24.98	12	21	No	8	0	0.01	NP
Calcium (mg/L)	LDR-1	-26.29	-8	-21	No	8	0	0.01	NP
Calcium (mg/L)	LDR-2	13.13	2	21	No	8	0	0.01	NP

Trend Test

CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS Printed 10/29/2025, 4:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	LDR-3	17.96	4	21	No	8	0	0.01	NP
Calcium (mg/L)	MW-101R-NP (bg)	1.962	16	21	No	8	0	0.01	NP
Calcium (mg/L)	MW-102R-NP	9.313	6	21	No	8	0	0.01	NP
Calcium (mg/L)	MW-103R-NP	8.607	8	21	No	8	0	0.01	NP
Calcium (mg/L)	MW-201	-4.247	-4	-21	No	8	0	0.01	NP
Calcium (mg/L)	MW-202R	-5.705	-4	-21	No	8	0	0.01	NP
Calcium (mg/L)	MW-203R (bg)	-1.136	-8	-21	No	8	0	0.01	NP
Calcium (mg/L)	MW-204	0.08579	0	21	No	8	0	0.01	NP
Calcium (mg/L)	MW-205 (bg)	-0.4858	-6	-21	No	8	0	0.01	NP
Calcium (mg/L)	MW-206	-0.4328	-2	-21	No	8	0	0.01	NP
Calcium (mg/L)	SW-1/OUTFALL4	7.49	16	21	No	8	0	0.01	NP
Carbonate (mg/L)	MW-202R	0	-5	-21	No	8	75	0.01	NP
Chloride (mg/L)	LDR-1	0.0009723	0	21	No	8	0	0.01	NP
Chloride (mg/L)	LDR-2	4.404	7	21	No	8	0	0.01	NP
Chloride (mg/L)	LDR-3	92.85	26	21	Yes	8	0	0.01	NP
Chloride (mg/L)	MW-101R-NP (bg)	-0.1751	-6	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-102R-NP	0.2801	10	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-103R-NP	1.479	16	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-201	-0.3949	-4	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-202R	0.4856	5	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-203R (bg)	-0.1399	-6	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-204	1.028	16	21	No	8	0	0.01	NP
Chloride (mg/L)	MW-205 (bg)	-0.07577	-2	-21	No	8	0	0.01	NP
Chloride (mg/L)	MW-206	-0.1767	-6	-21	No	8	0	0.01	NP
Chloride (mg/L)	SW-1/OUTFALL4	-2.895	-11	-21	No	8	0	0.01	NP
Chromium (mg/L)	LDR-1	-0.0009337	-7	-21	No	8	50	0.01	NP
Chromium (mg/L)	LDR-3	-0.000921	-15	-21	No	8	50	0.01	NP
Chromium (mg/L)	MW-101R-NP (bg)	0.0002732	16	21	No	8	62.5	0.01	NP
Chromium (mg/L)	SW-1/OUTFALL4	0	5	21	No	8	87.5	0.01	NP
Lead (mg/L)	LDR-1	0	-8	-21	No	8	75	0.01	NP
Lead (mg/L)	LDR-3	-0.000003193	-8	-21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-101R-NP (bg)	0.0001254	5	21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-201	0	-1	-21	No	8	87.5	0.01	NP
Lead (mg/L)	SW-1/OUTFALL4	-0.00001634	-9	-21	No	8	50	0.01	NP
Magnesium (mg/L)	LDR-1	3.374	2	21	No	8	0	0.01	NP
Magnesium (mg/L)	LDR-2	12.94	12	21	No	8	0	0.01	NP
Magnesium (mg/L)	LDR-3	41.02	14	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-101R-NP (bg)	4.802	14	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-102R-NP	10.01	19	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-103R-NP	13.49	15	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-201	2.036	14	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-202R	0.3327	6	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-203R (bg)	0.3199	7	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-204	1.954	21	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-205 (bg)	0.9535	17	21	No	8	0	0.01	NP
Magnesium (mg/L)	MW-206	0.3851	5	21	No	8	0	0.01	NP
Magnesium (mg/L)	SW-1/OUTFALL4	1.347	10	21	No	8	0	0.01	NP
Nitrate/Nitrite as N (mg/L)	LDR-1	0	0	21	No	8	50	0.01	NP
Nitrate/Nitrite as N (mg/L)	LDR-2	-0.007636	-8	-21	No	8	50	0.01	NP
Nitrate/Nitrite as N (mg/L)	LDR-3	0.04448	2	21	No	8	12.5	0.01	NP

Trend Test

CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS Printed 10/29/2025, 4:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Nitrate/Nitrite as N (mg/L)	MW-101R-NP (bg)	0.001044	6	21	No	8	50	0.01	NP
Nitrate/Nitrite as N (mg/L)	MW-102R-NP	0	0	21	No	8	62.5	0.01	NP
Nitrate/Nitrite as N (mg/L)	MW-103R-NP	-0.01633	-8	-21	No	8	12.5	0.01	NP
Nitrate/Nitrite as N (mg/L)	MW-201	0	2	21	No	8	62.5	0.01	NP
Nitrate/Nitrite as N (mg/L)	MW-202R	0	4	21	No	8	50	0.01	NP
Nitrate/Nitrite as N (mg/L)	MW-206	0	-4	-21	No	8	62.5	0.01	NP
Nitrate/Nitrite as N (mg/L)	SW-1/OUTFALL4	-0.02202	-13	-21	No	8	37.5	0.01	NP
pH (S.U.)	LDR-1	-0.09979	-6	-21	No	8	0	0.01	NP
pH (S.U.)	LDR-2	-0.09278	-8	-21	No	8	0	0.01	NP
pH (S.U.)	LDR-3	-0.0124	0	21	No	8	0	0.01	NP
pH (S.U.)	MW-101R-NP (bg)	0.03633	4	21	No	8	0	0.01	NP
pH (S.U.)	MW-102R-NP	0.004152	0	21	No	8	0	0.01	NP
pH (S.U.)	MW-103R-NP	0.003463	1	21	No	8	0	0.01	NP
pH (S.U.)	MW-201	0.1199	6	21	No	8	0	0.01	NP
pH (S.U.)	MW-202R	0.04324	2	21	No	8	0	0.01	NP
pH (S.U.)	MW-203R (bg)	0.02495	3	21	No	8	0	0.01	NP
pH (S.U.)	MW-204	-0.01137	-4	-21	No	8	0	0.01	NP
pH (S.U.)	MW-205 (bg)	-0.01003	-1	-21	No	8	0	0.01	NP
pH (S.U.)	MW-206	-0.04731	-3	-21	No	8	0	0.01	NP
pH (S.U.)	SW-1/OUTFALL4	-0.1071	-8	-21	No	8	0	0.01	NP
Phosphorus, Total [as P] (mg/L)	LDR-1	-0.03108	-7	-21	No	8	37.5	0.01	NP
Phosphorus, Total [as P] (mg/L)	MW-101R-NP (bg)	0.0112	10	21	No	8	50	0.01	NP
Phosphorus, Total [as P] (mg/L)	MW-201	0	1	21	No	8	37.5	0.01	NP
Phosphorus, Total [as P] (mg/L)	SW-1/OUTFALL4	0.0004977	1	21	No	8	25	0.01	NP
Potassium (mg/L)	LDR-1	0.8315	4	21	No	8	0	0.01	NP
Potassium (mg/L)	LDR-2	-9.758	-10	-21	No	8	0	0.01	NP
Potassium (mg/L)	LDR-3	134.1	24	21	Yes	8	0	0.01	NP
Potassium (mg/L)	MW-101R-NP (bg)	0.3134	11	21	No	8	0	0.01	NP
Potassium (mg/L)	MW-102R-NP	0.3384	11	21	No	8	0	0.01	NP
Potassium (mg/L)	MW-103R-NP	1.61	17	21	No	8	0	0.01	NP
Potassium (mg/L)	MW-201	-0.4806	-4	-21	No	8	0	0.01	NP
Potassium (mg/L)	MW-202R	-0.1621	-2	-21	No	8	0	0.01	NP
Potassium (mg/L)	MW-203R (bg)	-0.1843	-10	-21	No	8	0	0.01	NP
Potassium (mg/L)	MW-204	-0.2664	-6	-21	No	8	0	0.01	NP
Potassium (mg/L)	MW-205 (bg)	-0.0763	-2	-21	No	8	0	0.01	NP
Potassium (mg/L)	MW-206	-0.06128	-2	-21	No	8	0	0.01	NP
Potassium (mg/L)	SW-1/OUTFALL4	-24.7	-14	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-201	0	-1	-21	No	8	87.5	0.01	NP
Sodium (mg/L)	LDR-1	0.3043	2	21	No	8	0	0.01	NP
Sodium (mg/L)	LDR-2	-0.151	-2	-21	No	8	0	0.01	NP
Sodium (mg/L)	LDR-3	8.191	20	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-101R-NP (bg)	0.4238	12	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-102R-NP	1.678	7	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-103R-NP	0.02493	1	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-201	0.3632	6	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-202R	0.5742	4	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-203R (bg)	-0.1998	-9	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-204	0.1416	4	21	No	8	0	0.01	NP
Sodium (mg/L)	MW-205 (bg)	-0.1225	-2	-21	No	8	0	0.01	NP
Sodium (mg/L)	MW-206	0.04087	1	21	No	8	0	0.01	NP

Trend Test

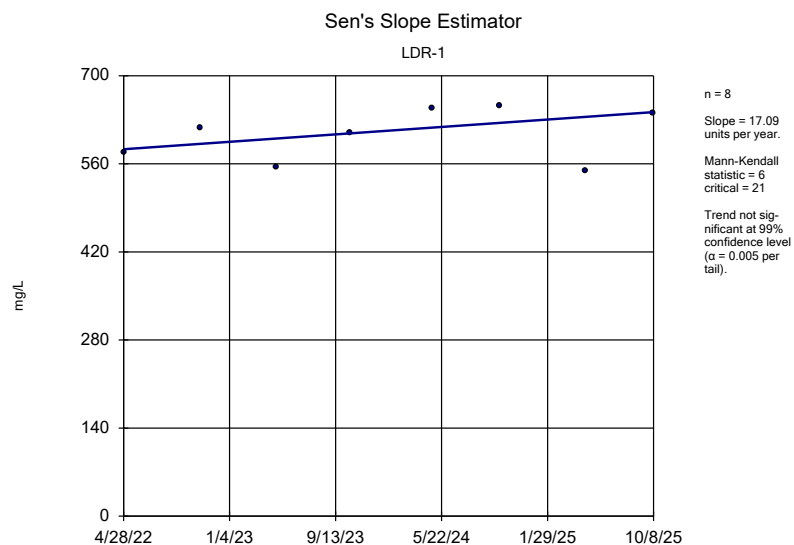
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS Printed 10/29/2025, 4:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Sodium (mg/L)	SW-1/OUTFALL4	-0.5632	-10	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	LDR-1	106	12	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	LDR-2	101.2	12	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	LDR-3	623.9	26	21	Yes	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-101R-NP (bg)	42.03	18	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-102R-NP	46.65	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-103R-NP	58.9	6	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-201	-19.71	-2	-21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-202R	31.09	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-203R (bg)	14.04	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-204	31.38	12	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-205 (bg)	18.44	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	MW-206	18.76	10	21	No	8	0	0.01	NP
Specific Conductance (umhos/cm)	SW-1/OUTFALL4	70.63	12	21	No	8	0	0.01	NP
Sulfate (mg/L)	LDR-1	1.45	2	21	No	8	0	0.01	NP
Sulfate (mg/L)	LDR-2	-21.67	-6	-21	No	8	0	0.01	NP
Sulfate (mg/L)	LDR-3	78.09	14	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-101R-NP (bg)	18.44	6	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-102R-NP	-25.3	-12	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-103R-NP	-28.74	-20	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-201	-8.033	-10	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-202R	0.1803	2	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-204	3.734	12	21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-205 (bg)	-0.2802	-11	-21	No	8	0	0.01	NP
Sulfate (mg/L)	MW-206	0.2134	2	21	No	8	0	0.01	NP
Sulfate (mg/L)	SW-1/OUTFALL4	-22.3	-14	-21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	LDR-1	74.11	10	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	LDR-2	44.59	10	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	LDR-3	377.9	26	21	Yes	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-101R-NP (bg)	29.91	14	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-102R-NP	-5.624	0	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-103R-NP	8.449	3	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-201	-8.006	-4	-21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-202R	-4	-2	-21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-203R (bg)	22.68	20	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-204	24.89	18	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-205 (bg)	7.919	9	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	MW-206	17.35	16	21	No	8	0	0.01	NP
Total Dissolved Solids (mg/L)	SW-1/OUTFALL4	-42.94	-12	-21	No	8	0	0.01	NP
Total Hardness (mg/L)	LDR-1	-58.71	-3	-21	No	8	0	0.01	NP
Total Hardness (mg/L)	LDR-2	90.62	6	21	No	8	0	0.01	NP
Total Hardness (mg/L)	LDR-3	208.8	8	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-101R-NP (bg)	24.84	14	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-102R-NP	59.01	13	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-103R-NP	65.58	13	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-201	3.573	2	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-202R	-8.056	-2	-21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-203R (bg)	-1.769	-6	-21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-204	10.82	14	21	No	8	0	0.01	NP
Total Hardness (mg/L)	MW-205 (bg)	1.078	2	21	No	8	0	0.01	NP

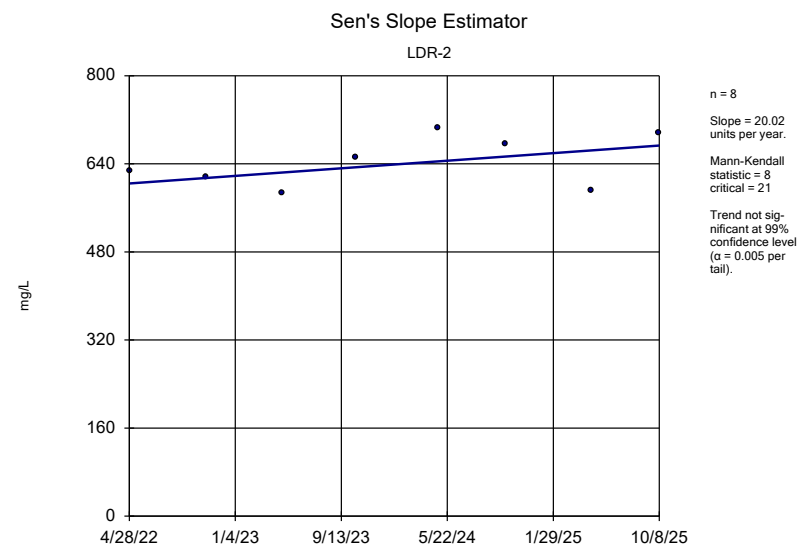
Trend Test

CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS Printed 10/29/2025, 4:44 PM

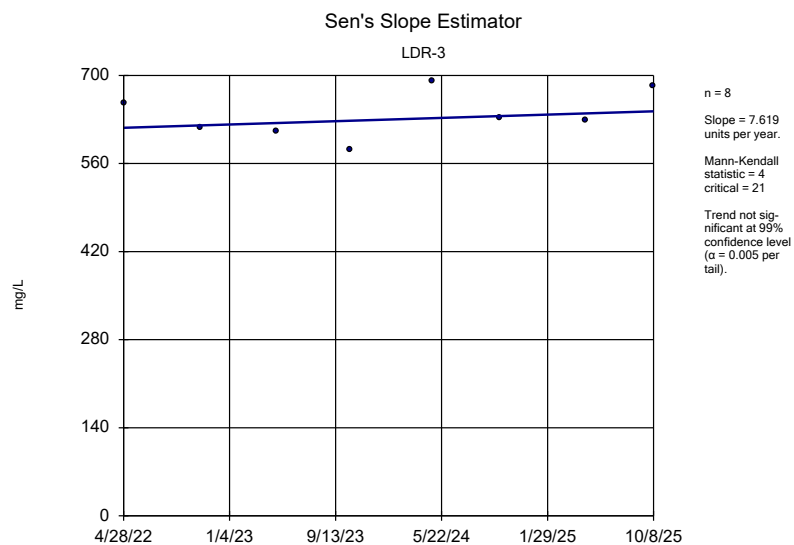
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Total Hardness (mg/L)	MW-206	2.356	6	21	No	8	0	0.01	NP
Total Hardness (mg/L)	SW-1/OUTFALL4	22.38	12	21	No	8	0	0.01	NP
Total Kjeldahl Nitrogen (mg/L)	LDR-3	0	6	21	No	8	62.5	0.01	NP
Total Kjeldahl Nitrogen (mg/L)	MW-201	0	4	21	No	8	50	0.01	NP
Total Kjeldahl Nitrogen (mg/L)	SW-1/OUTFALL4	-0.08891	-11	-21	No	8	37.5	0.01	NP
Total Organic Carbon (mg/L)	LDR-1	0.138	10	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	LDR-2	-0.1123	-6	-21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	LDR-3	-0.6438	-16	-21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-101R-NP (bg)	0.03903	5	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-102R-NP	0.07101	10	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-103R-NP	0.167	8	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-201	0.1229	5	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-202R	0.08236	11	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-203R (bg)	0.0962	8	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-204	0.1656	8	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-205 (bg)	0.1043	10	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	MW-206	0.1142	12	21	No	8	0	0.01	NP
Total Organic Carbon (mg/L)	SW-1/OUTFALL4	0.4642	10	21	No	8	0	0.01	NP



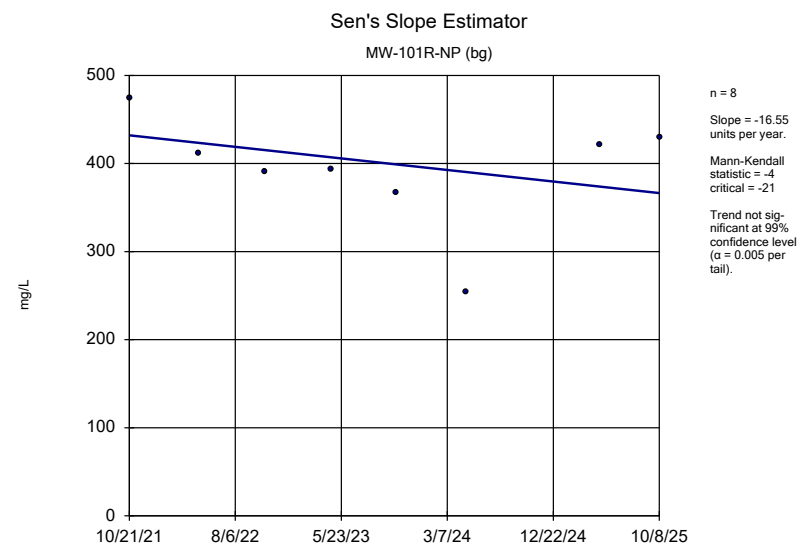
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



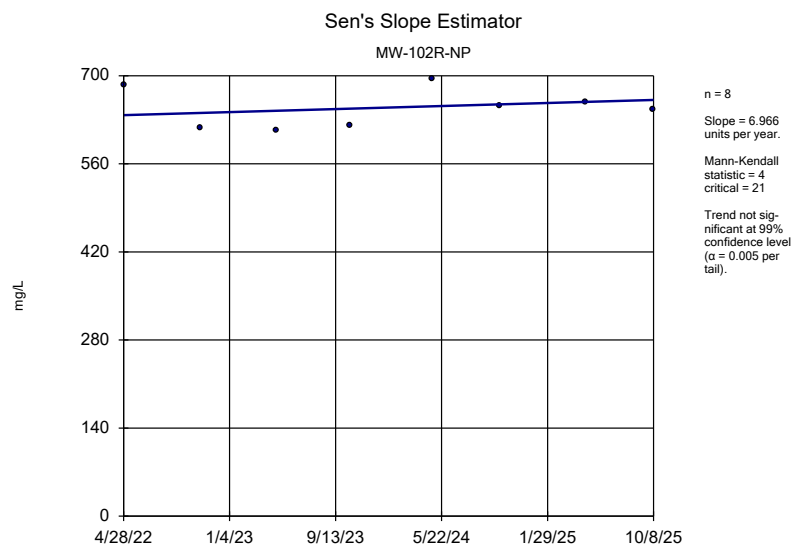
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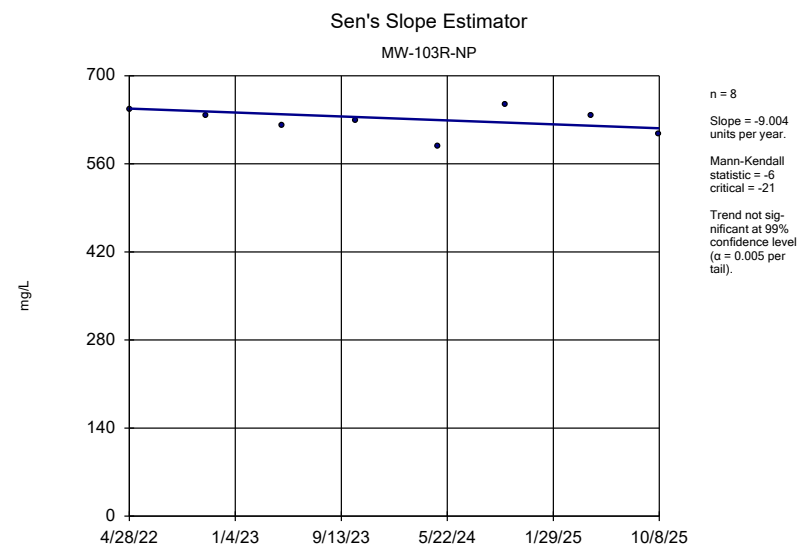
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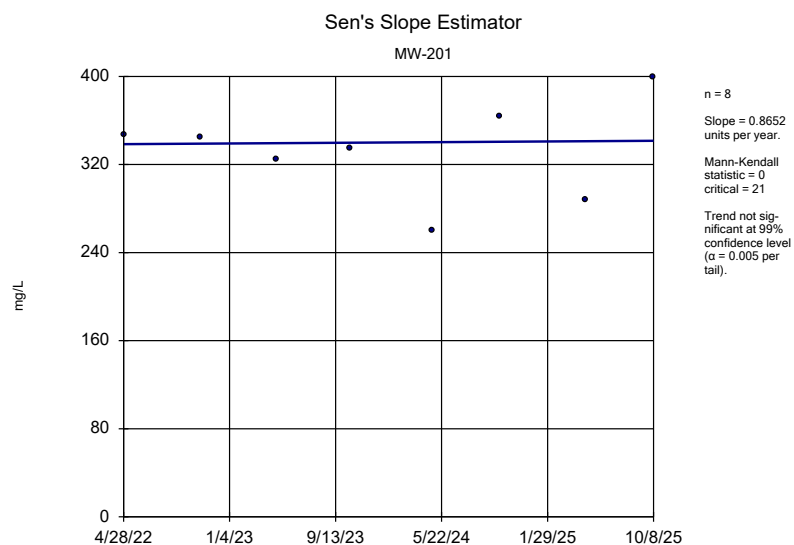
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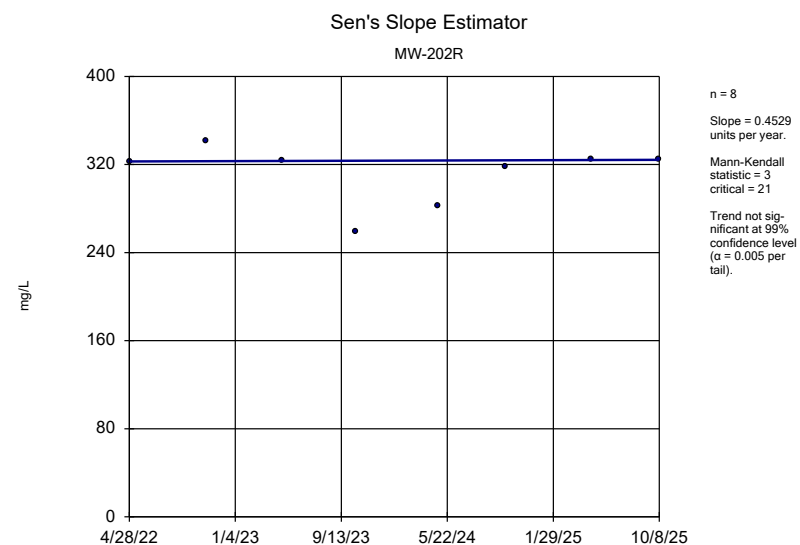
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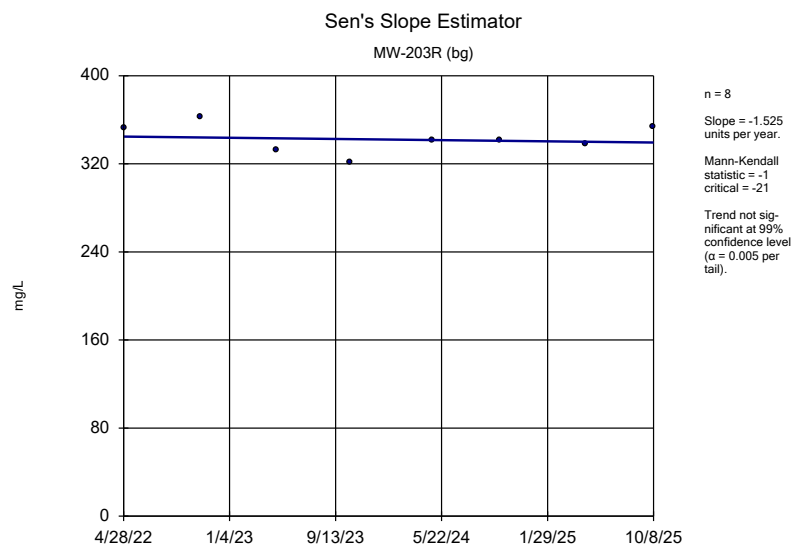
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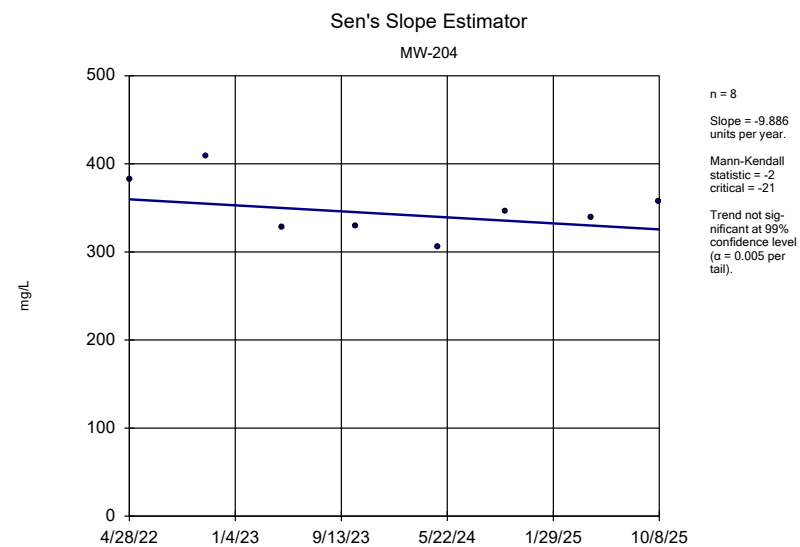
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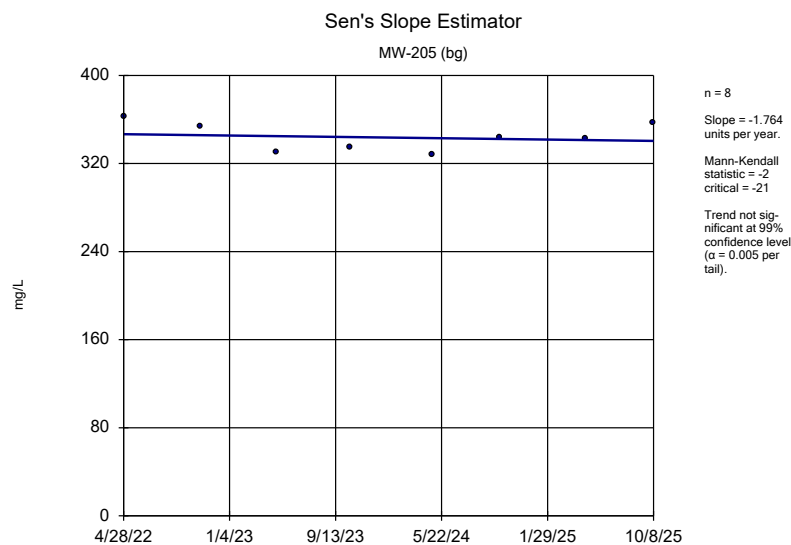
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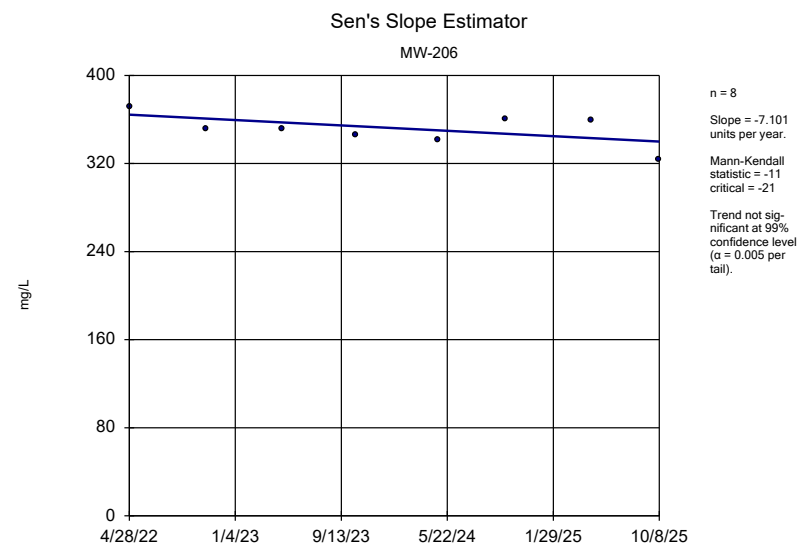
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Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 4:33 PM View: 2025_AWQR-Mann_Kend
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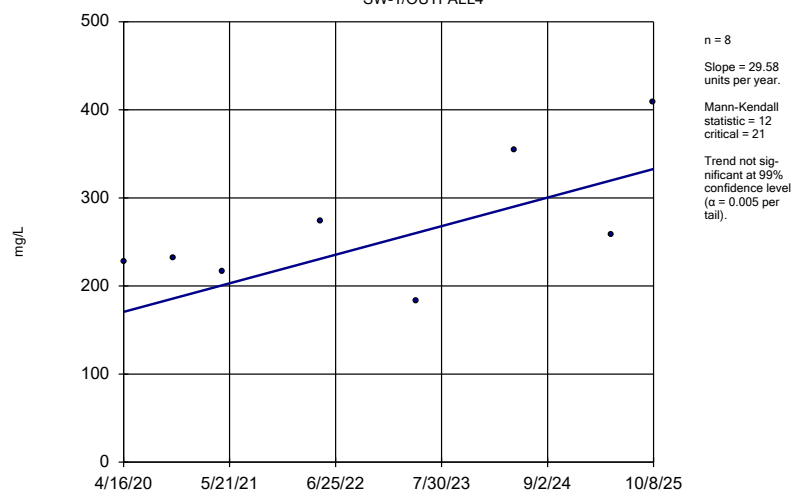
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Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 4:33 PM View: 2025_AWQR-Mann_Kend
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

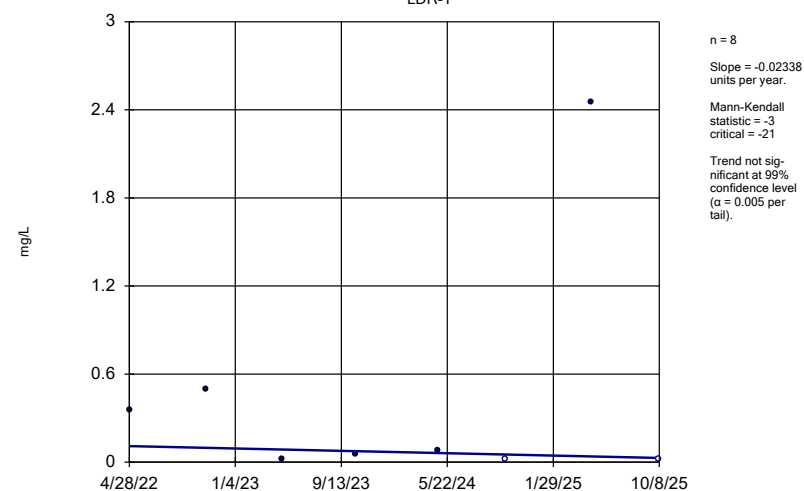
SW-1/OUTFALL4



Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 4:33 PM View: 2025_AWQR-Mann_Kend
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Sen's Slope Estimator

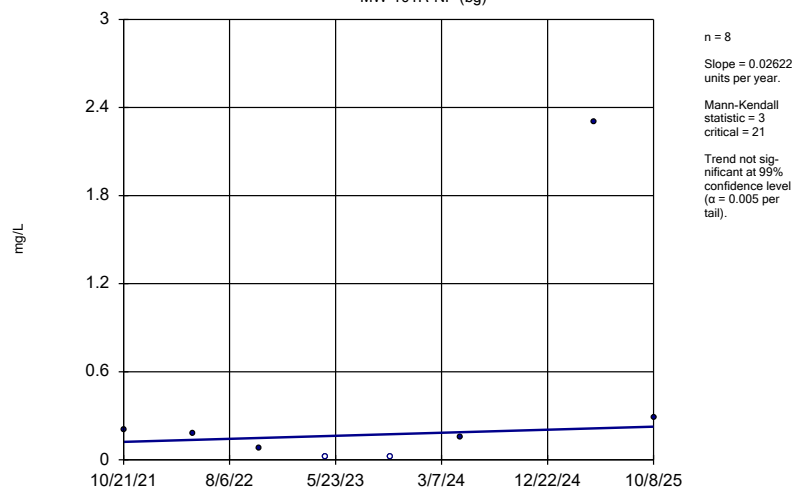
LDR-1



Constituent: Aluminum Analysis Run 10/29/2025 4:33 PM View: 2025_AWQR-Mann_Kendall
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Sen's Slope Estimator

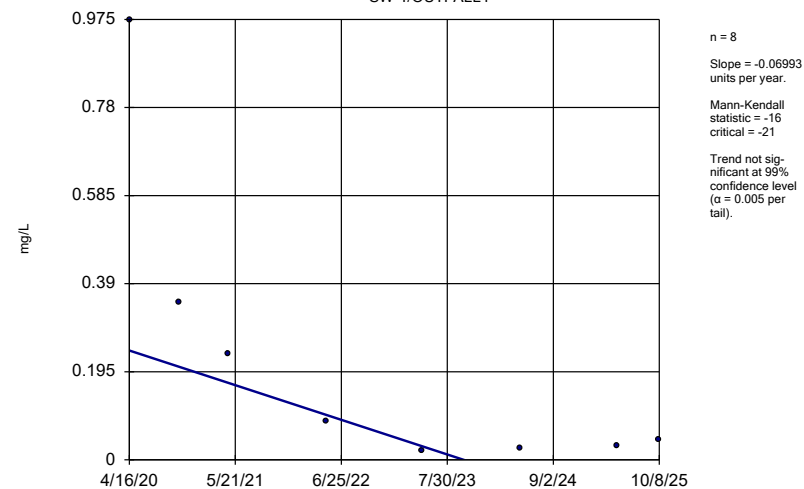
MW-101R-NP (bg)



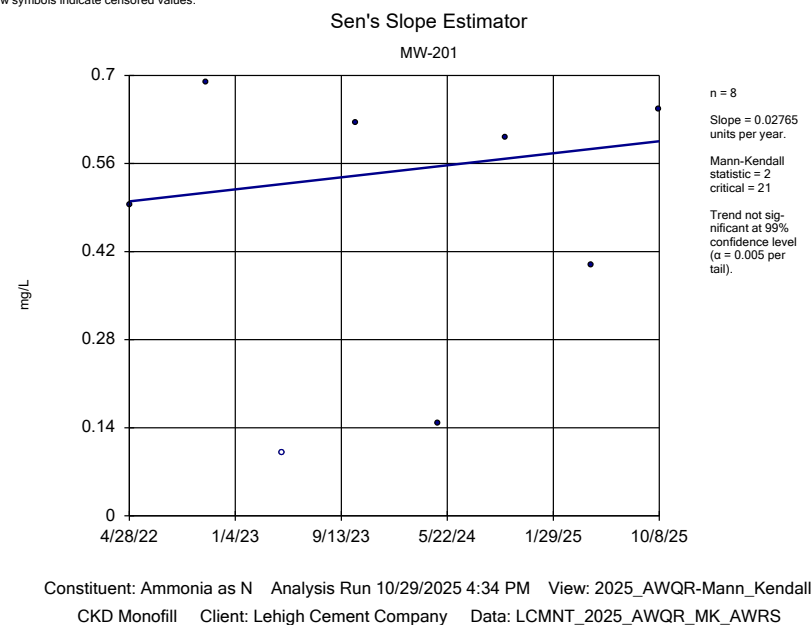
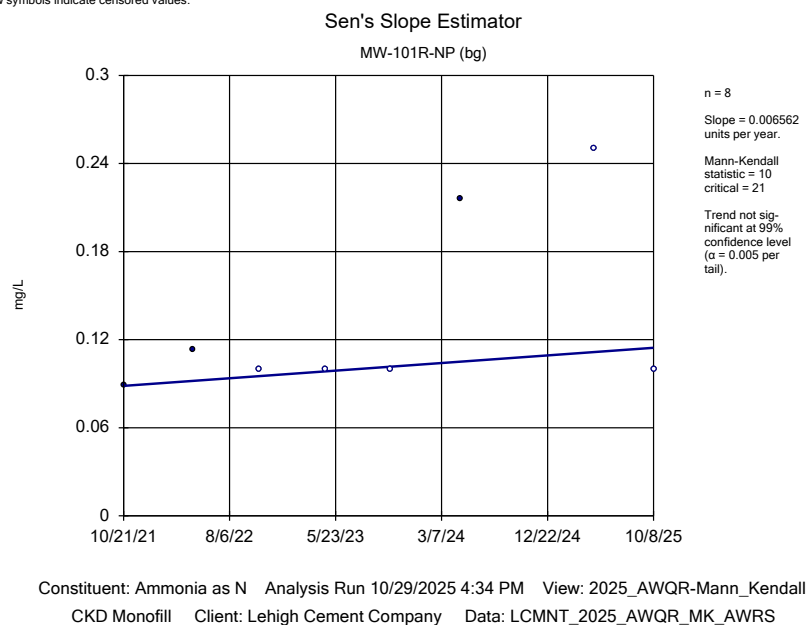
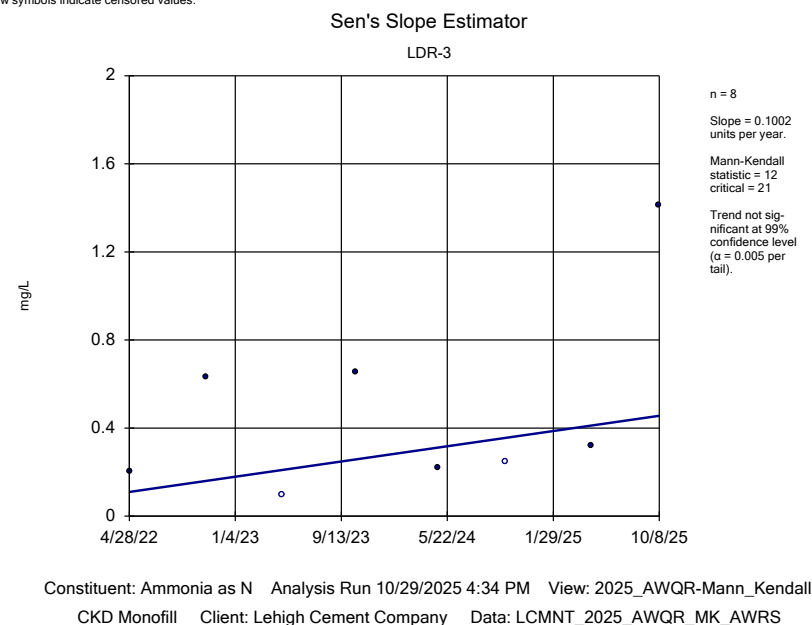
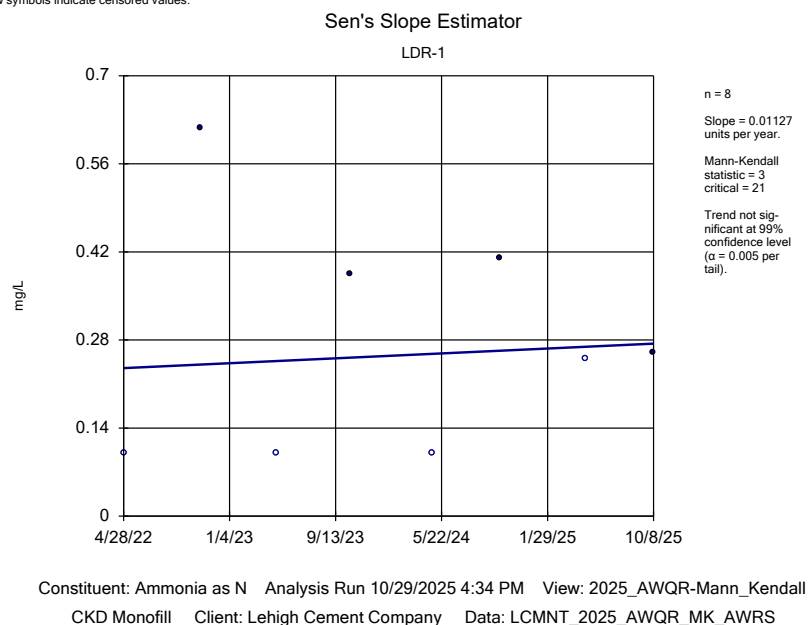
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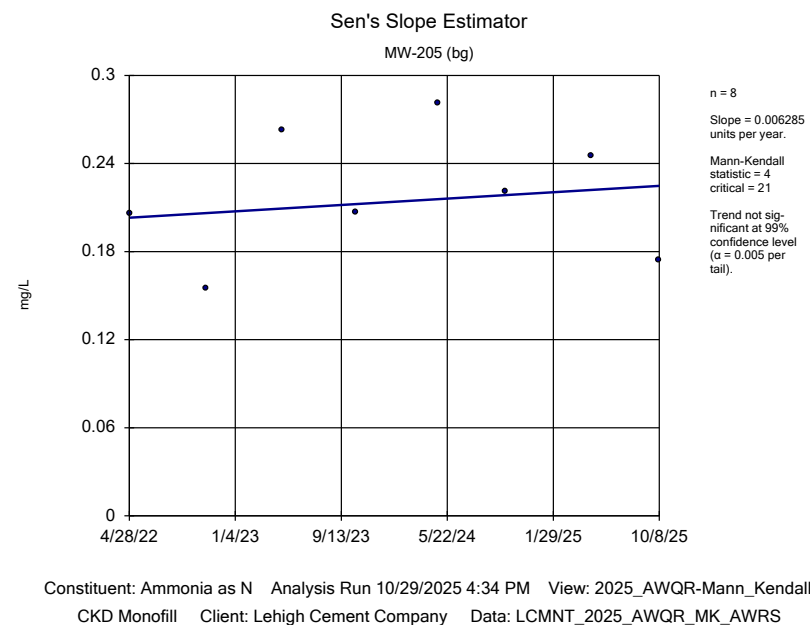
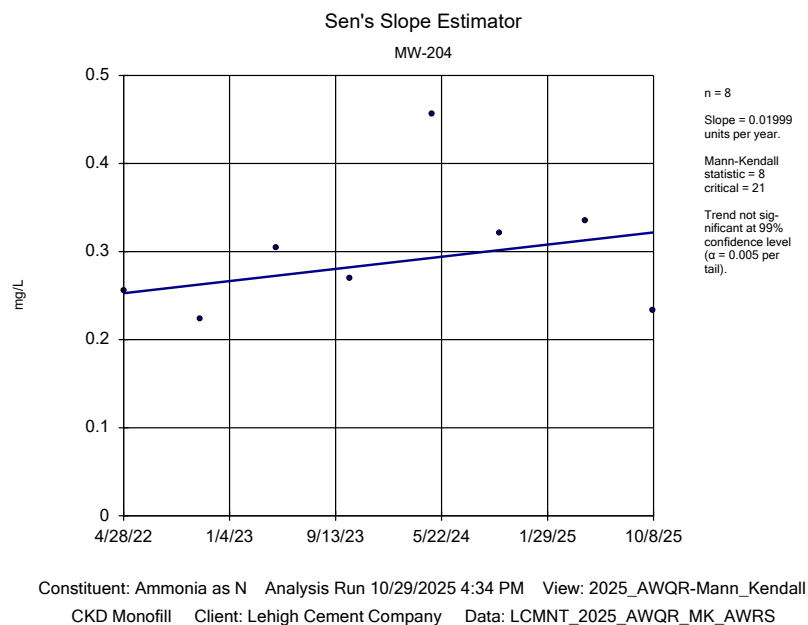
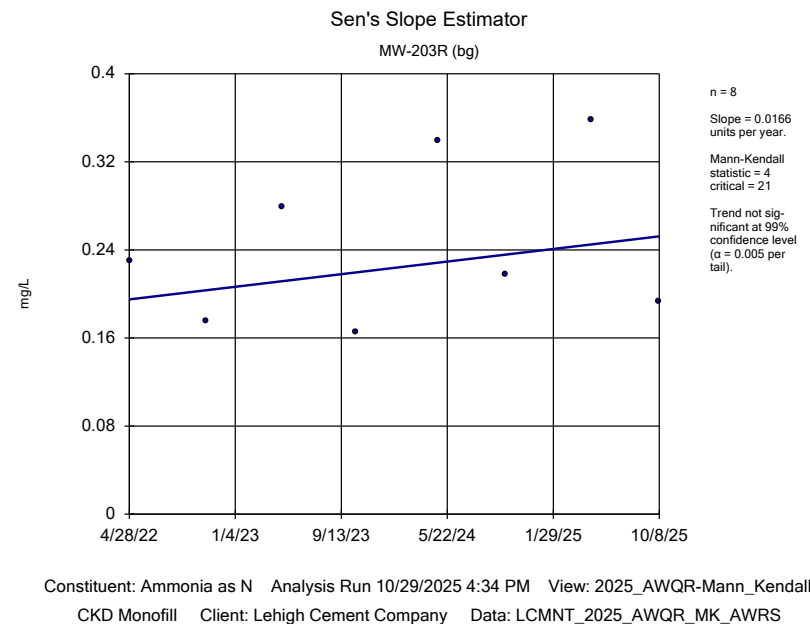
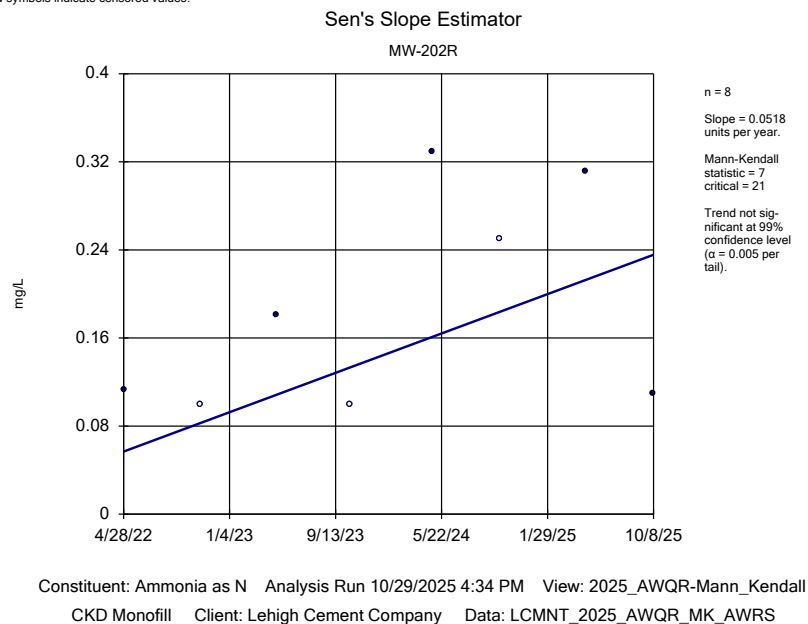
Sen's Slope Estimator

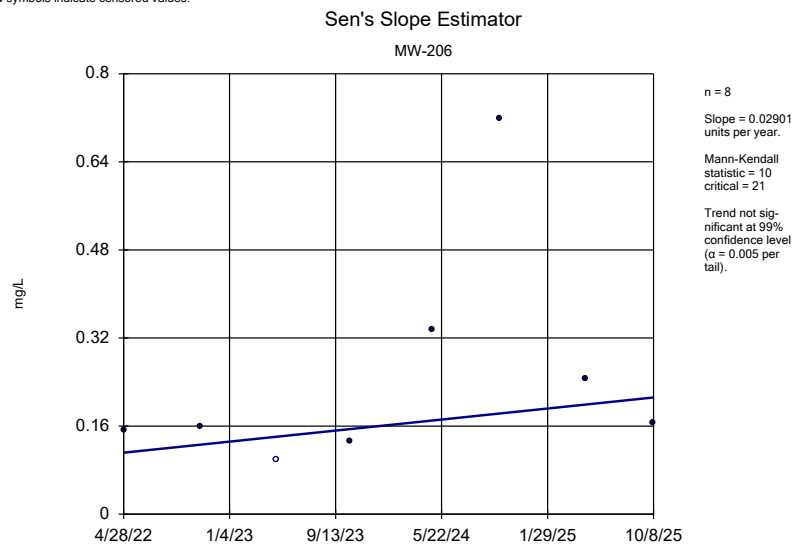
SW-1/OUTFALL4



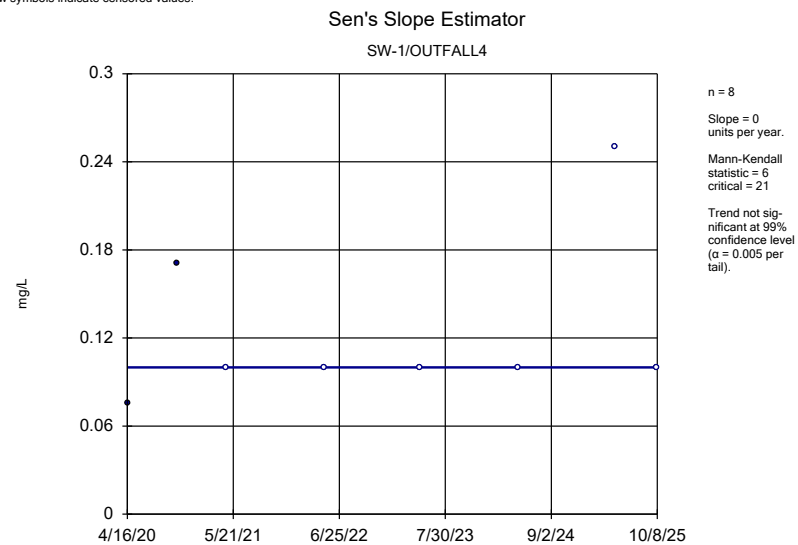
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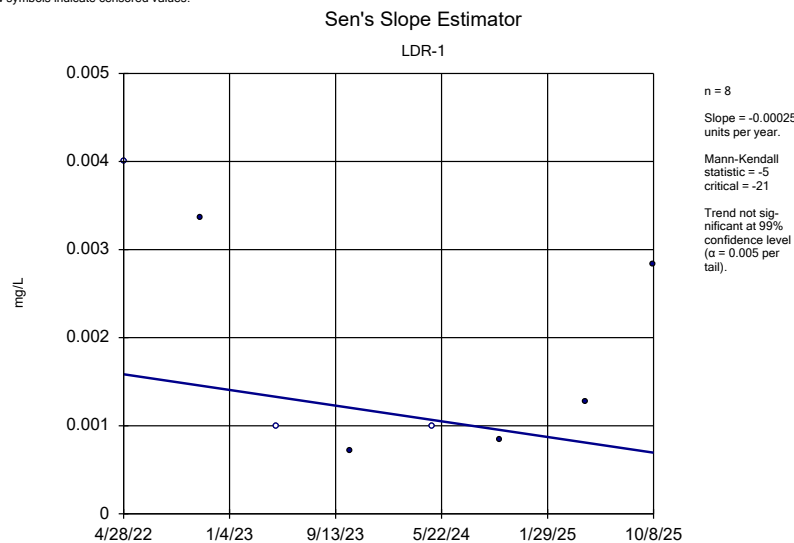




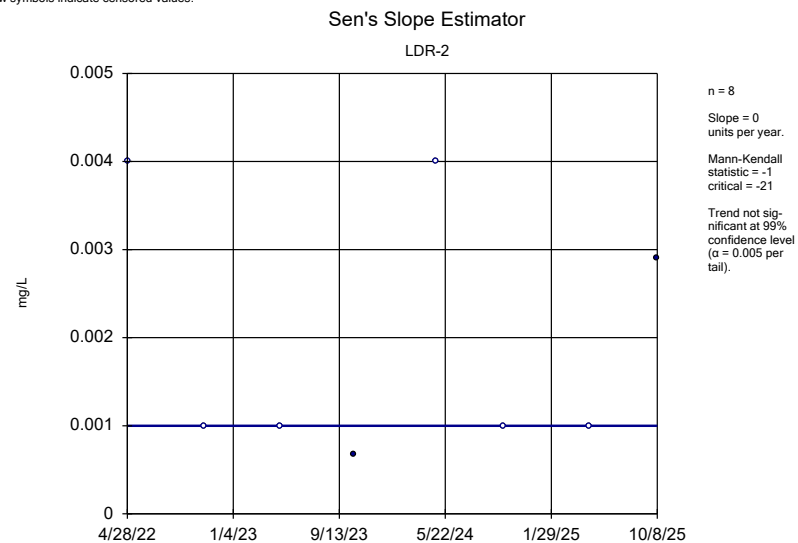
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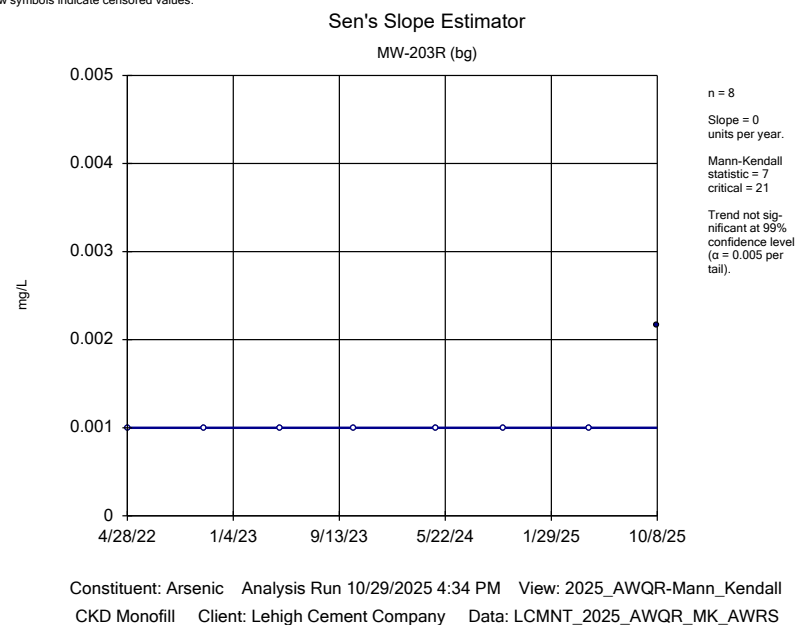
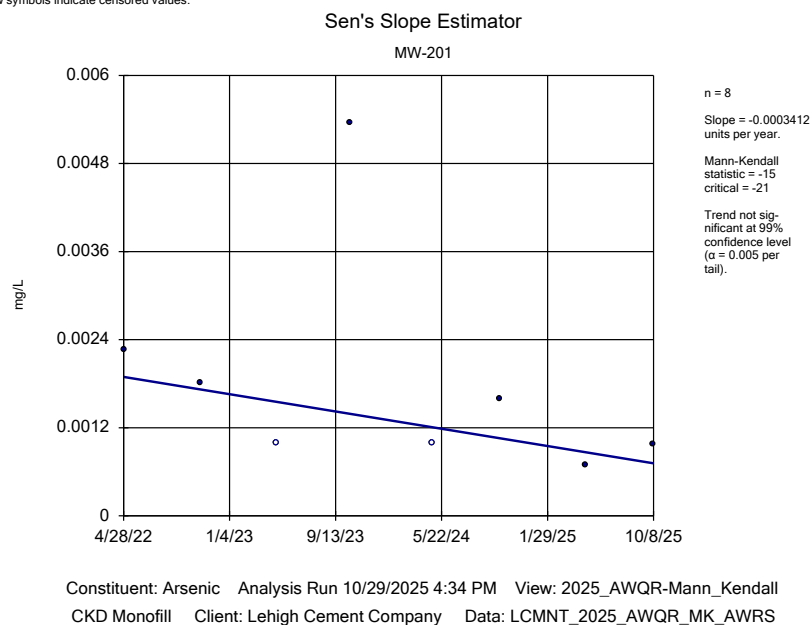
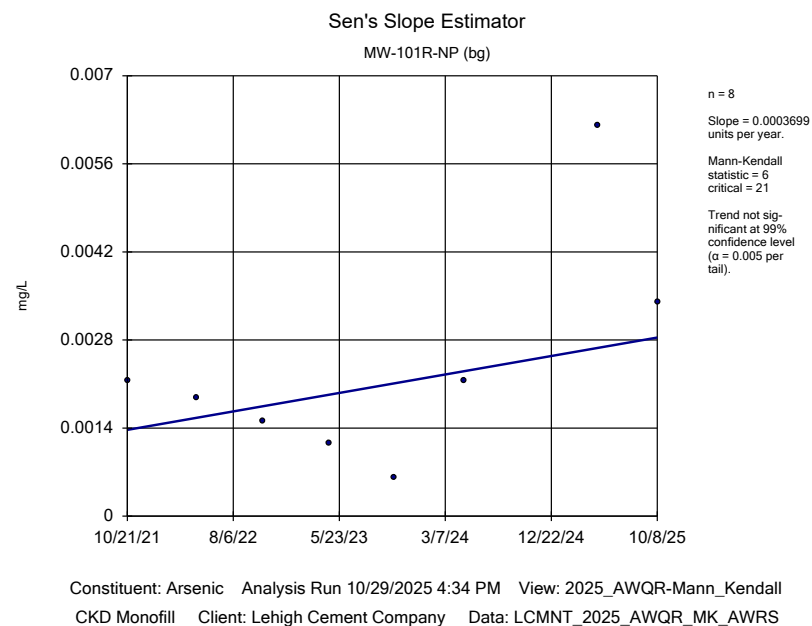
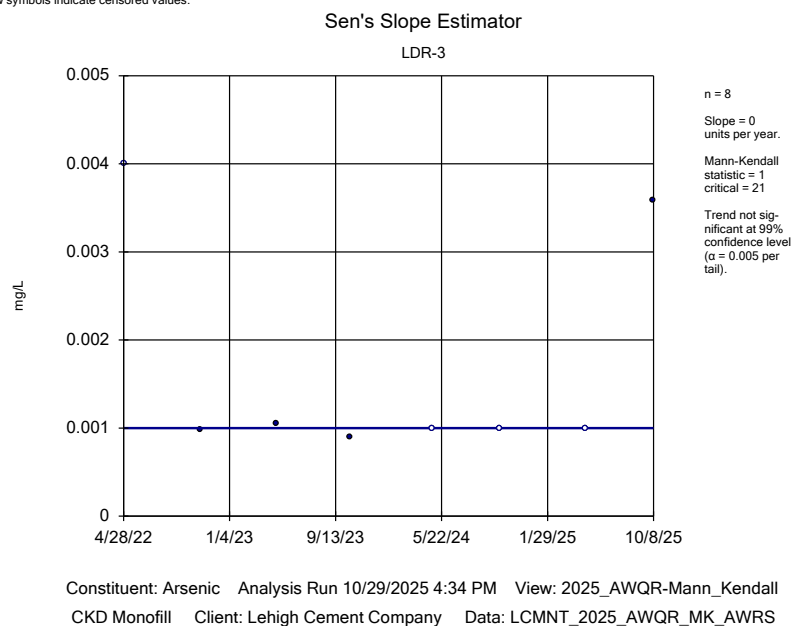
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Arsenic Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
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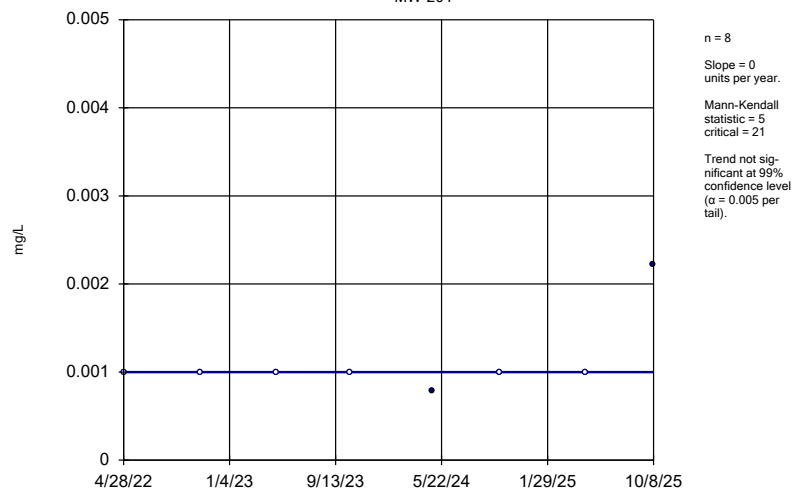


Constituent: Arsenic Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Sen's Slope Estimator

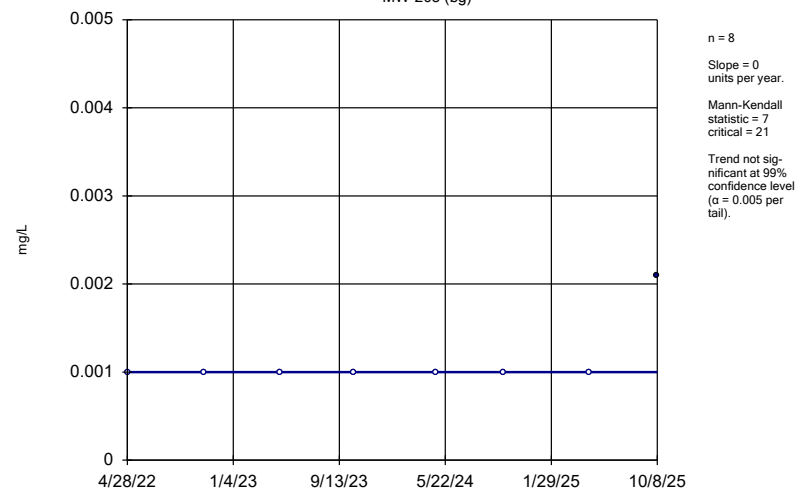
MW-204



Constituent: Arsenic Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
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Sen's Slope Estimator

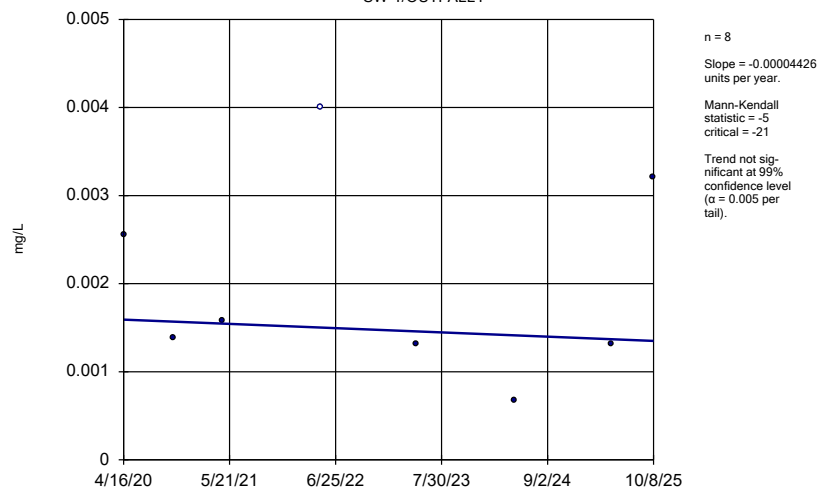
MW-205 (bg)



Constituent: Arsenic Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

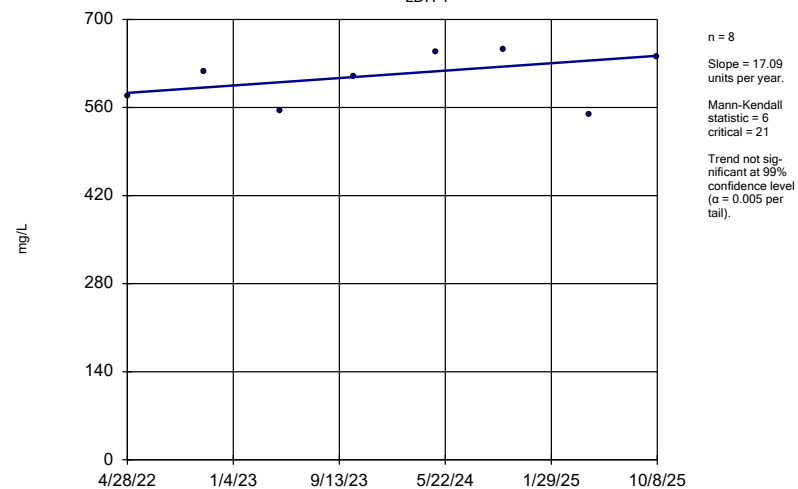
SW-1/OUTFALL4



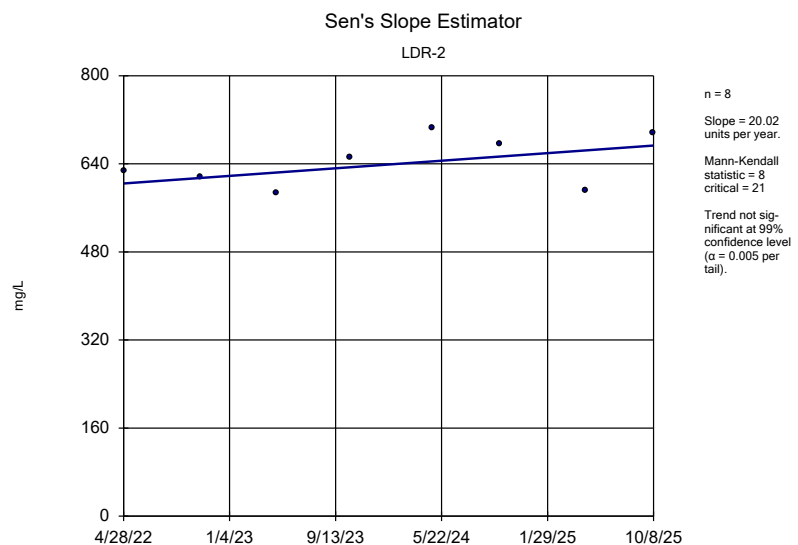
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

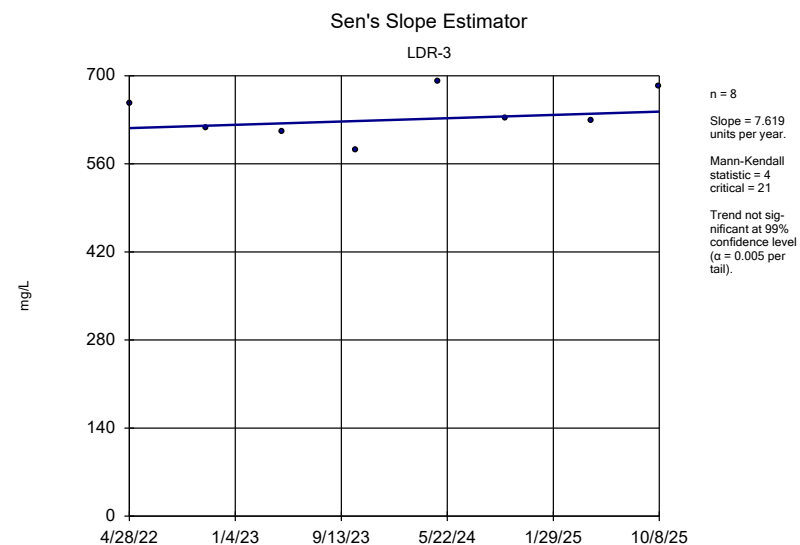
LDR-1



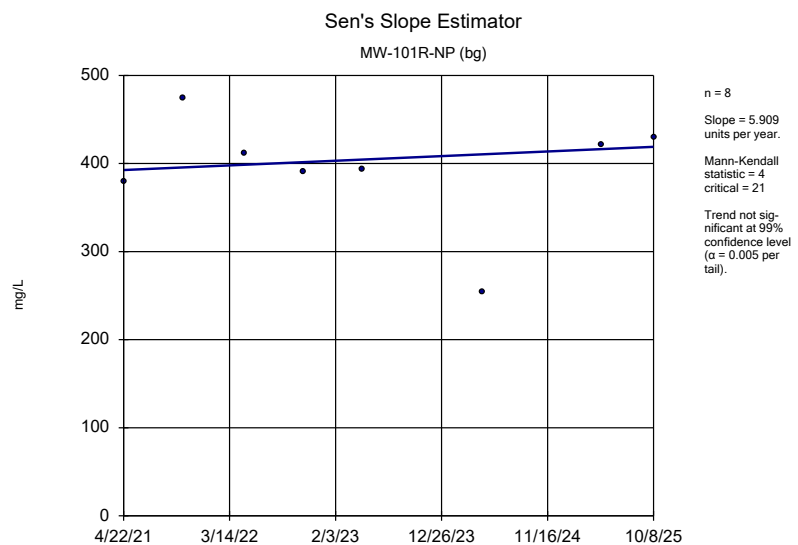
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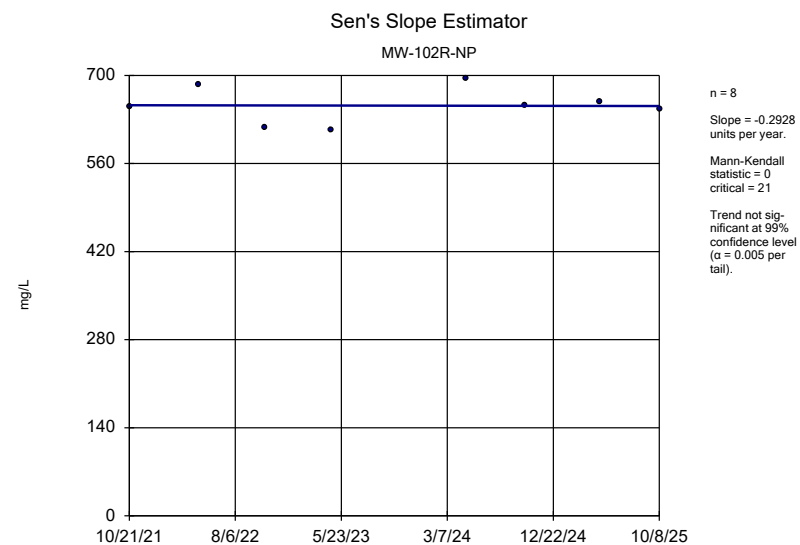
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



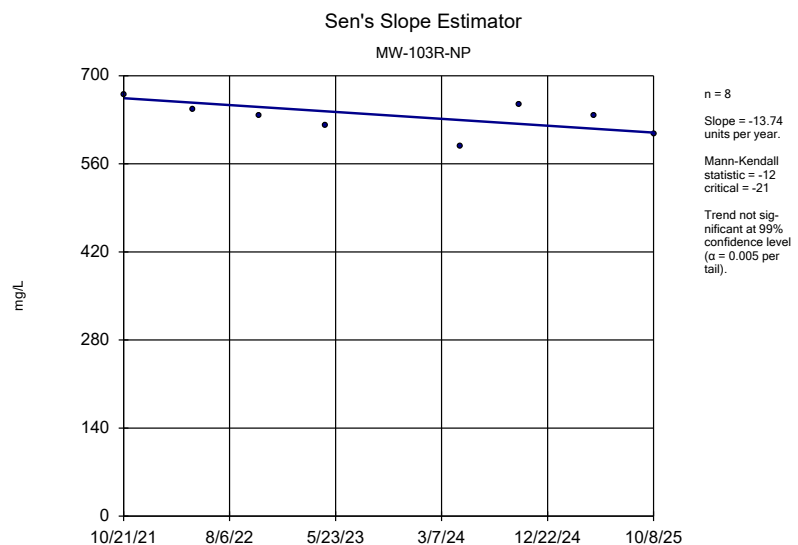
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



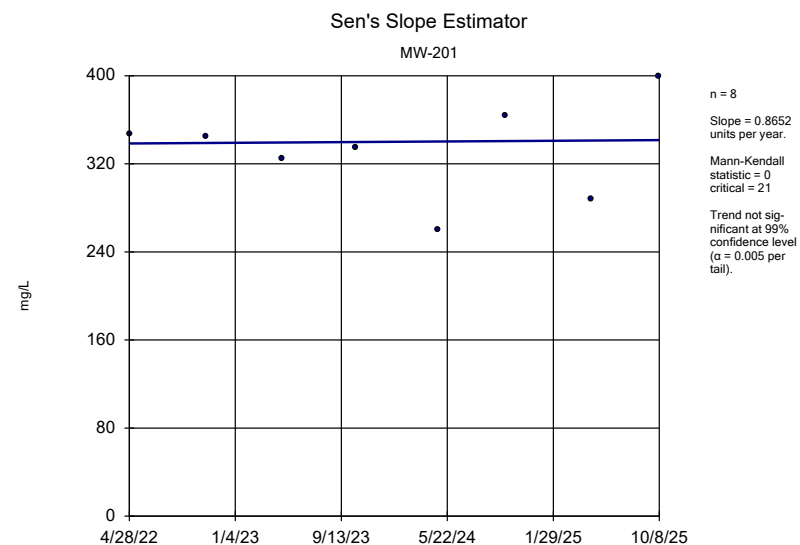
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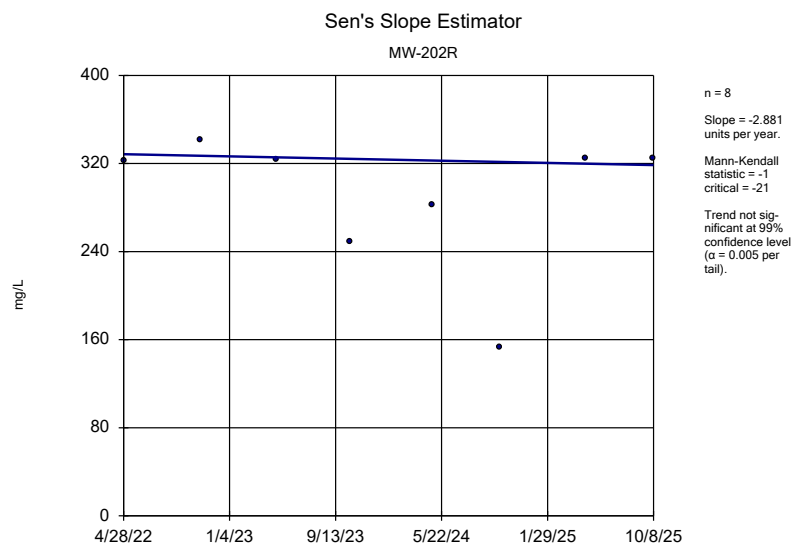
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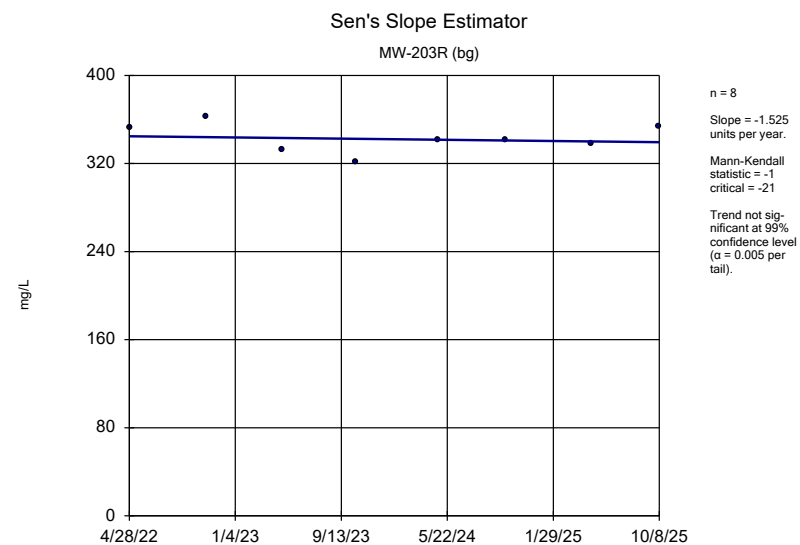
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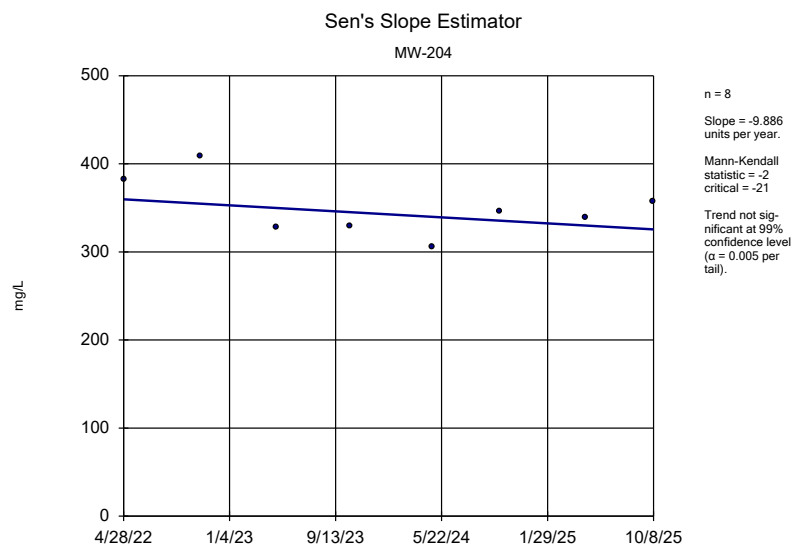
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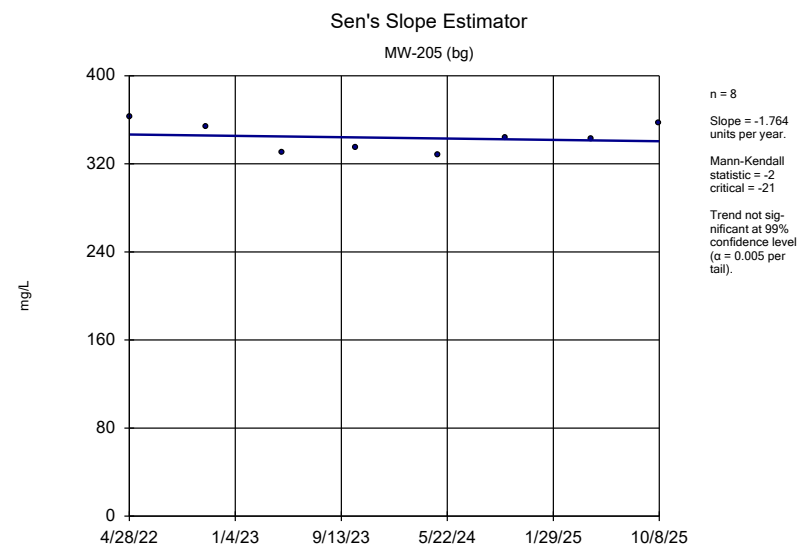
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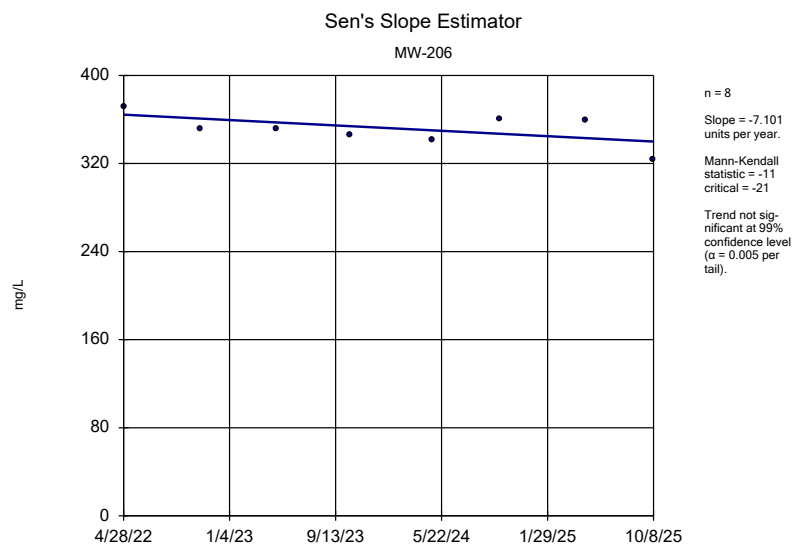
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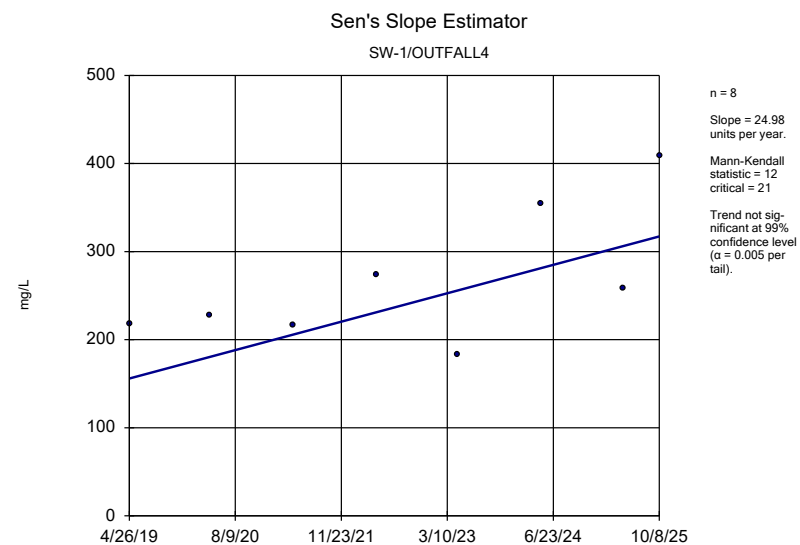
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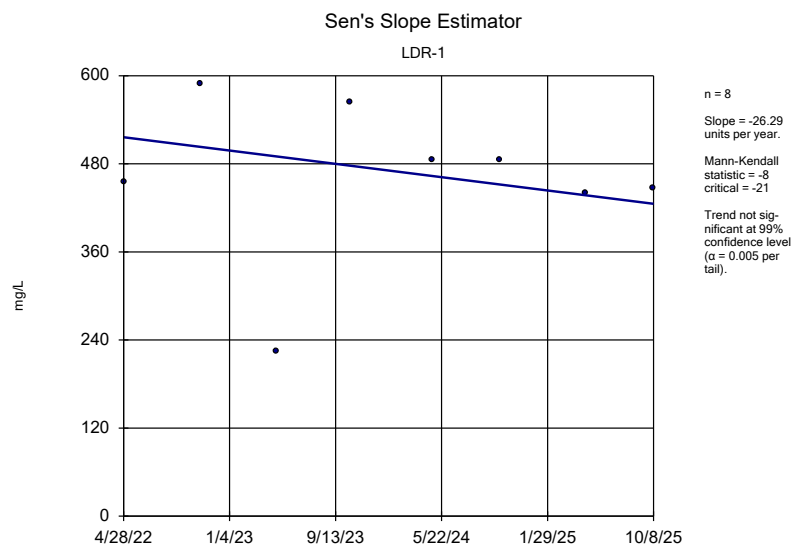
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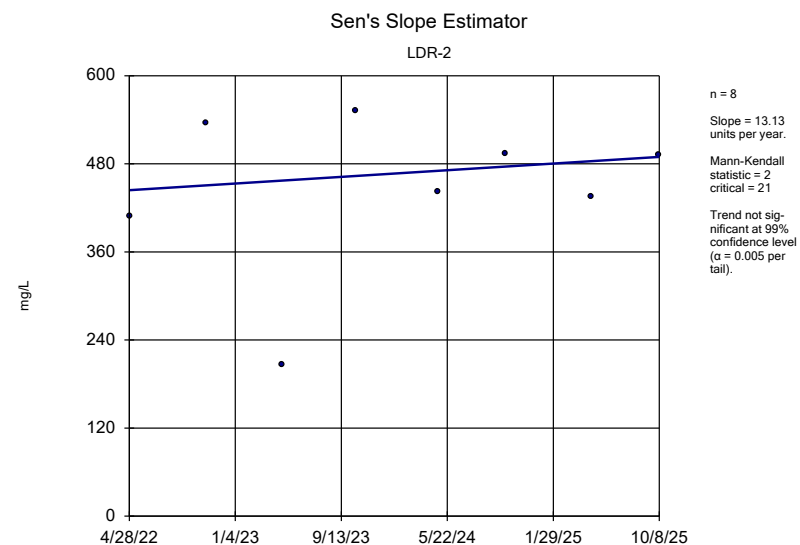
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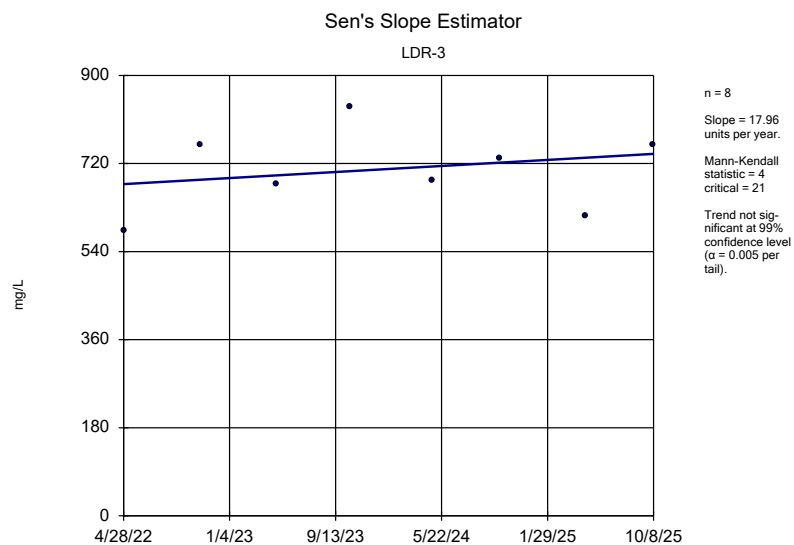
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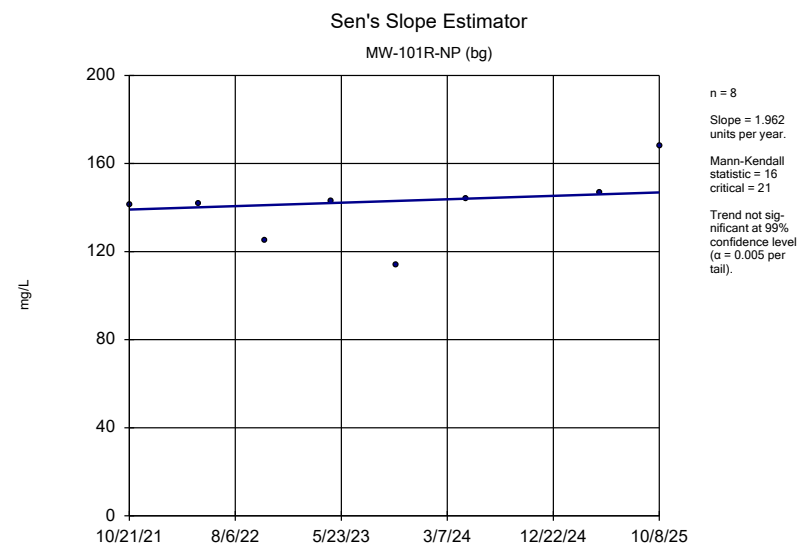
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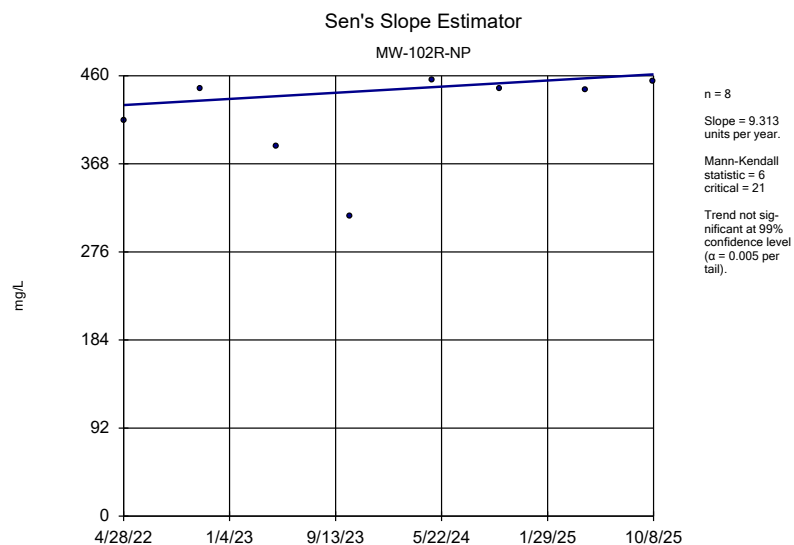
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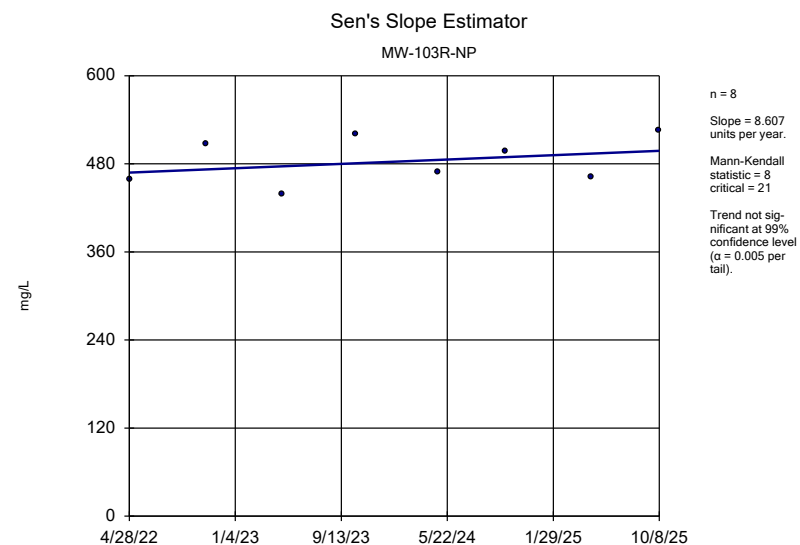
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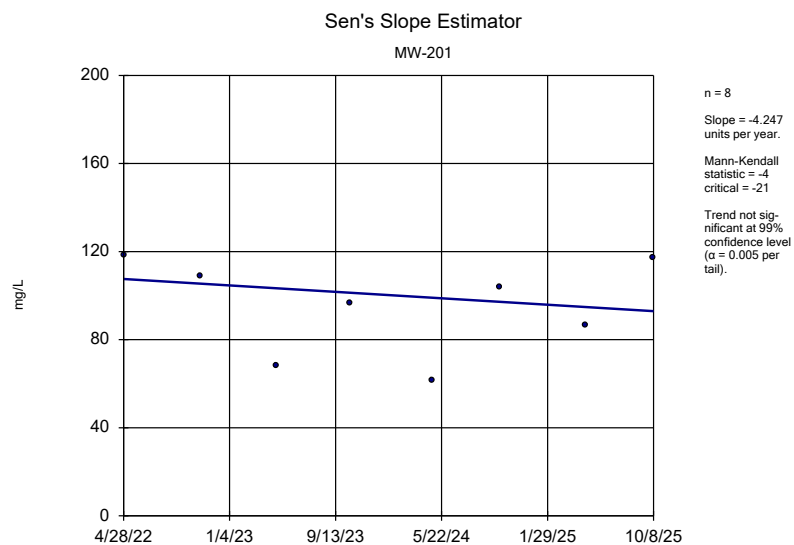
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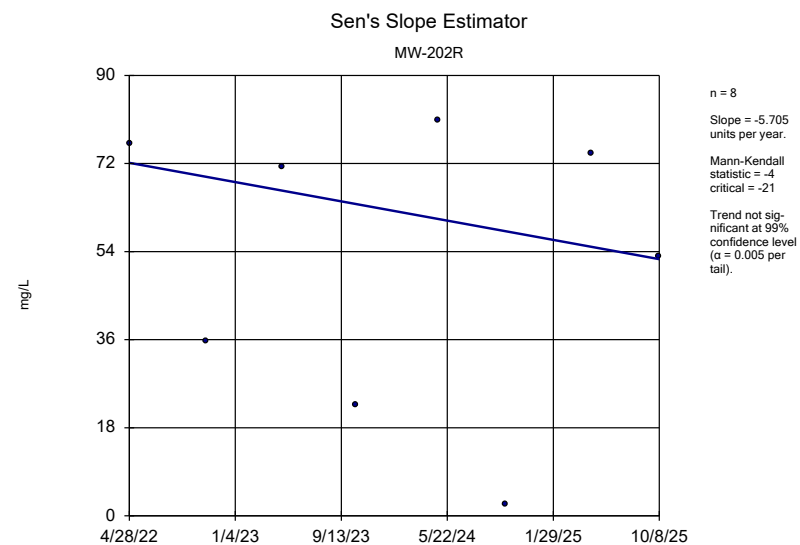
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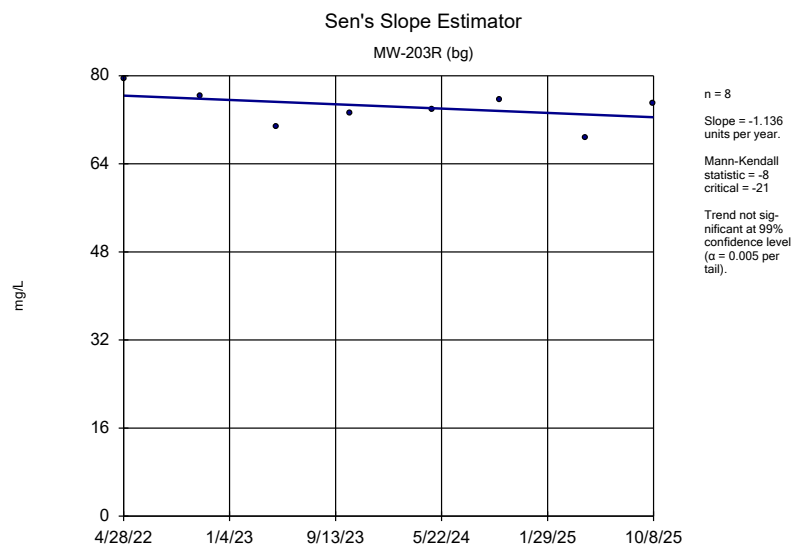
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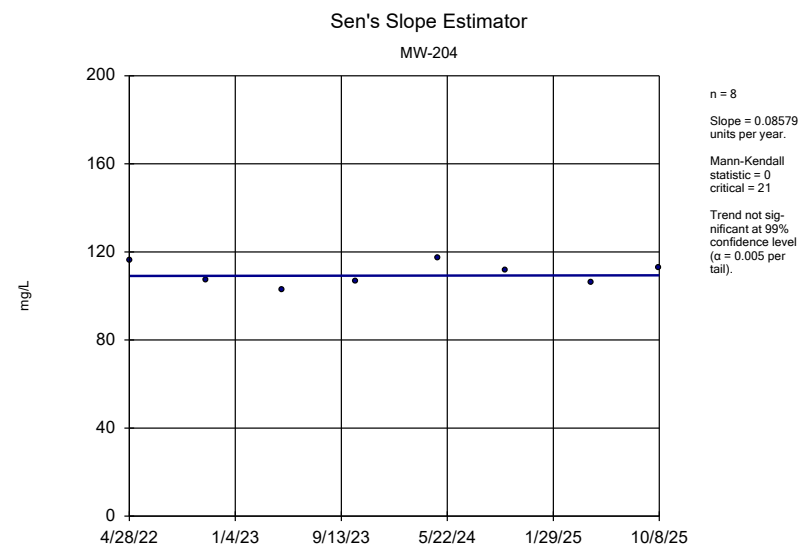
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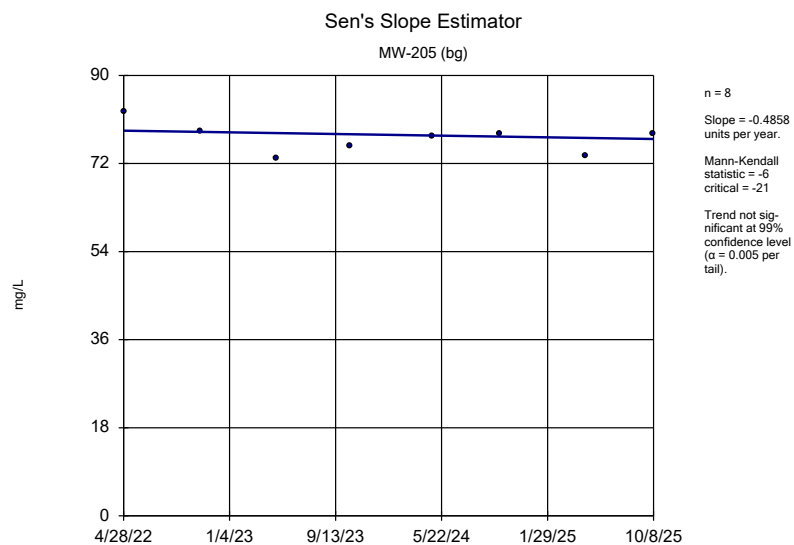
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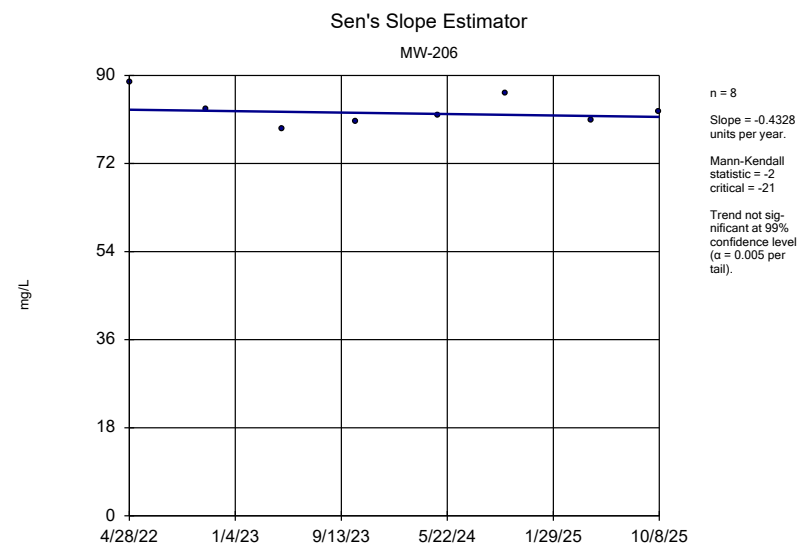
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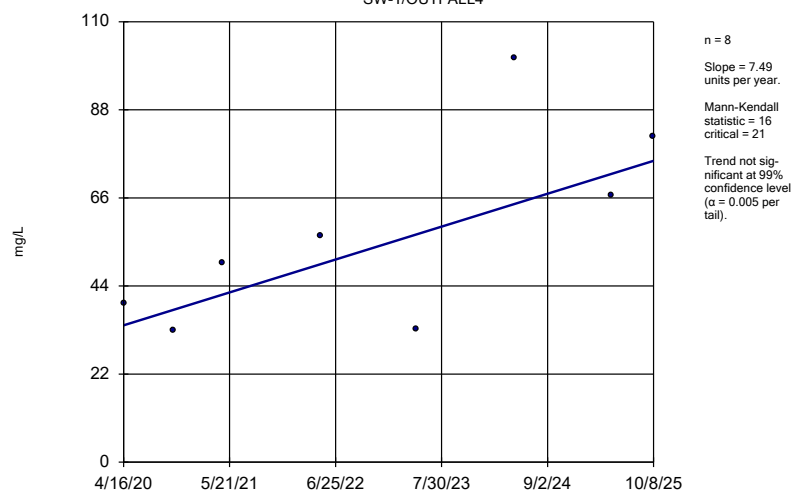
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Sen's Slope Estimator

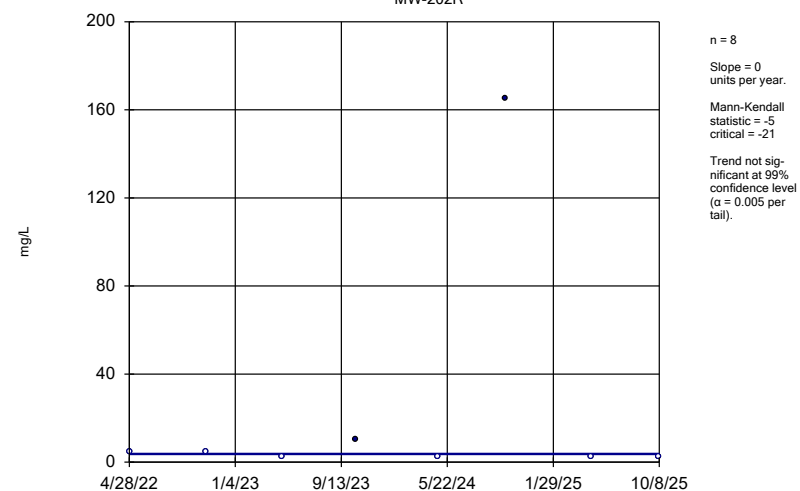
SW-1/OUTFALL4



Constituent: Calcium Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
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Sen's Slope Estimator

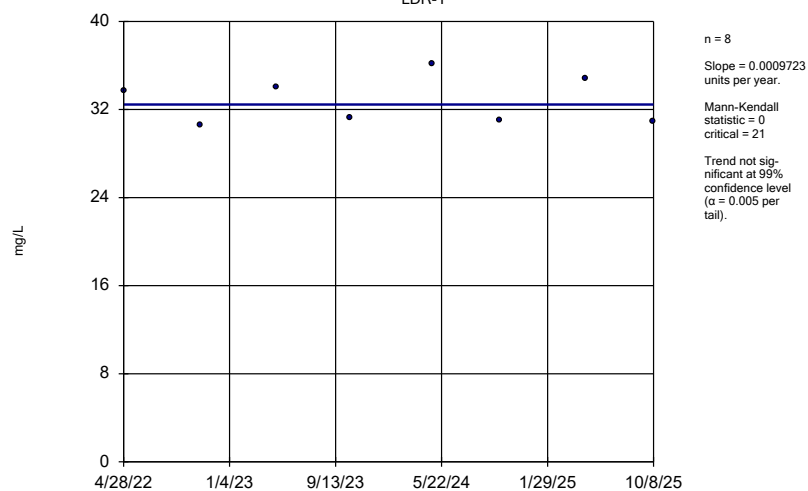
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Constituent: Carbonate Analysis Run 10/29/2025 4:34 PM View: 2025_AWQR-Mann_Kendall
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Sen's Slope Estimator

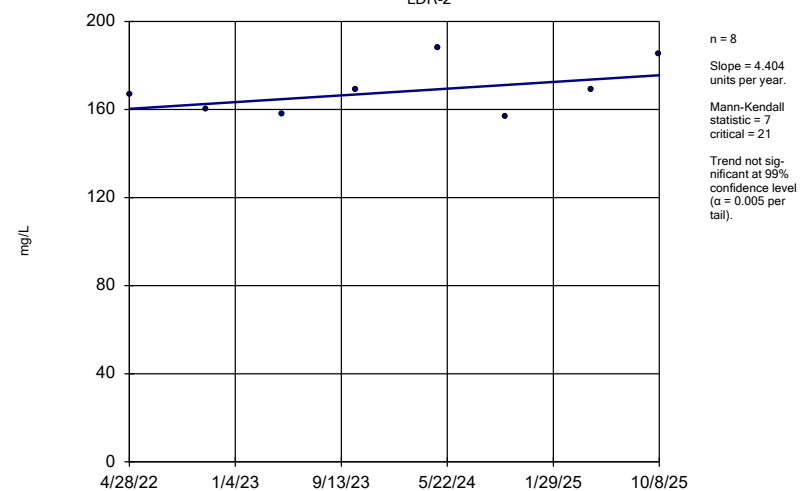
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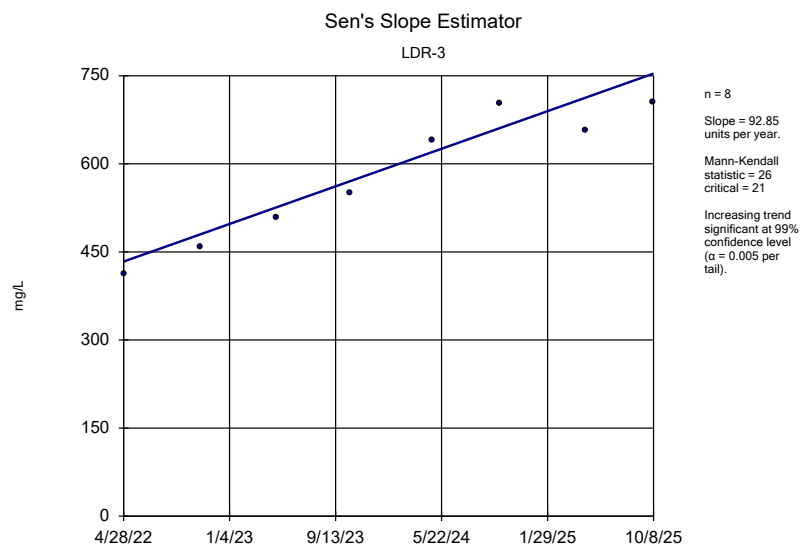
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

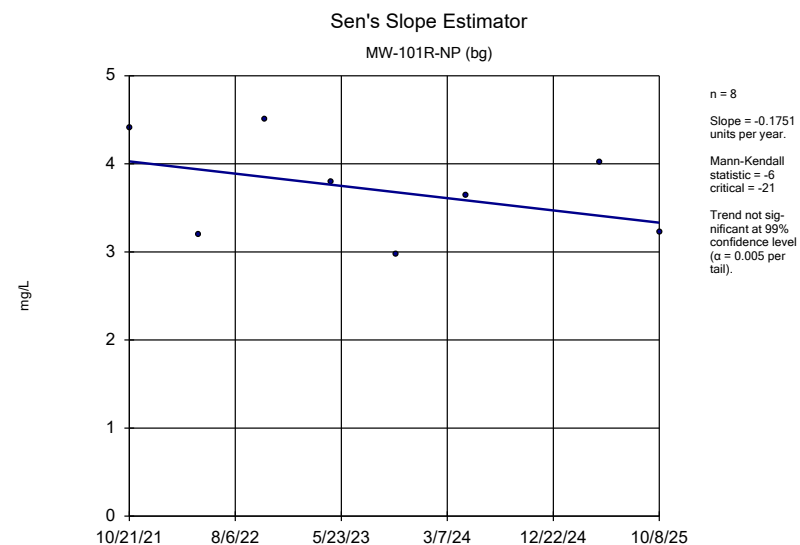
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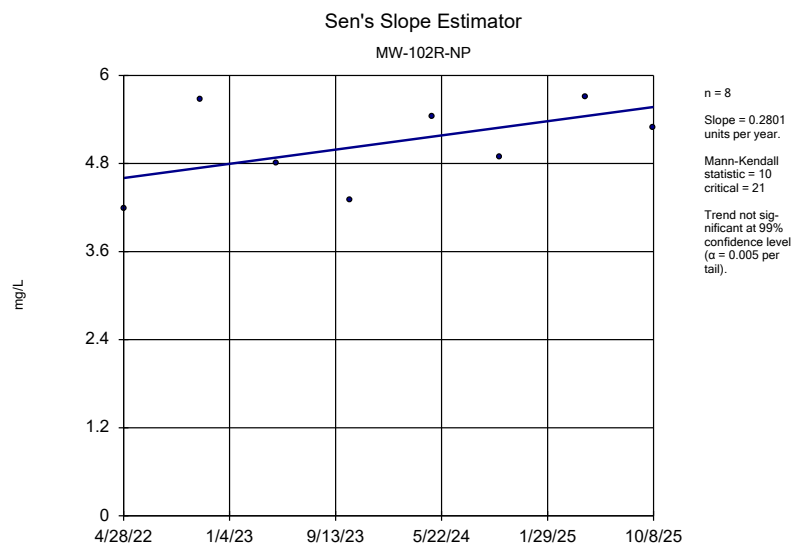
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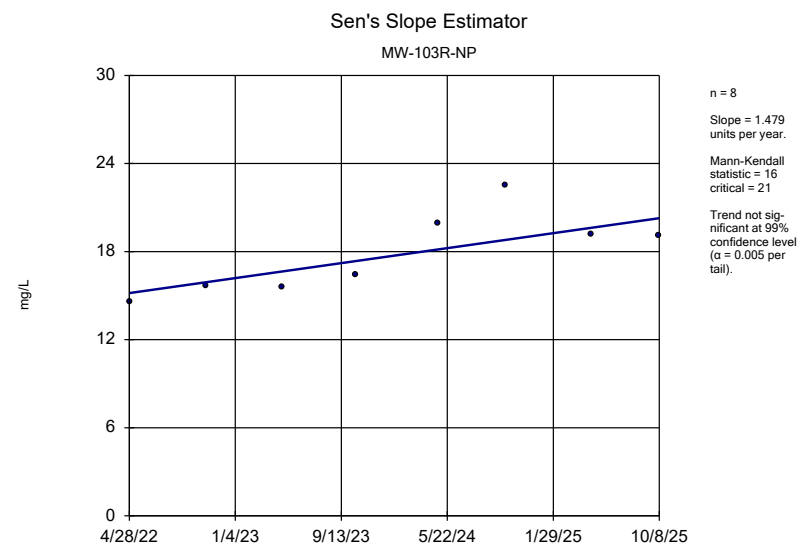
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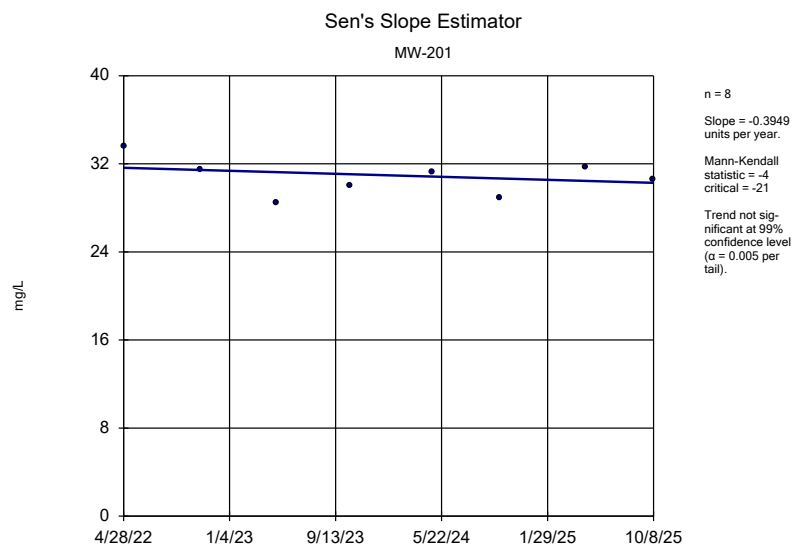
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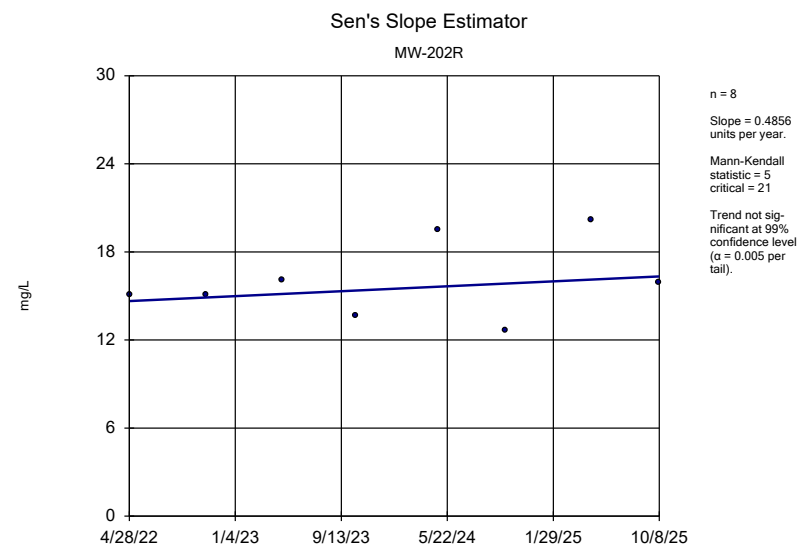
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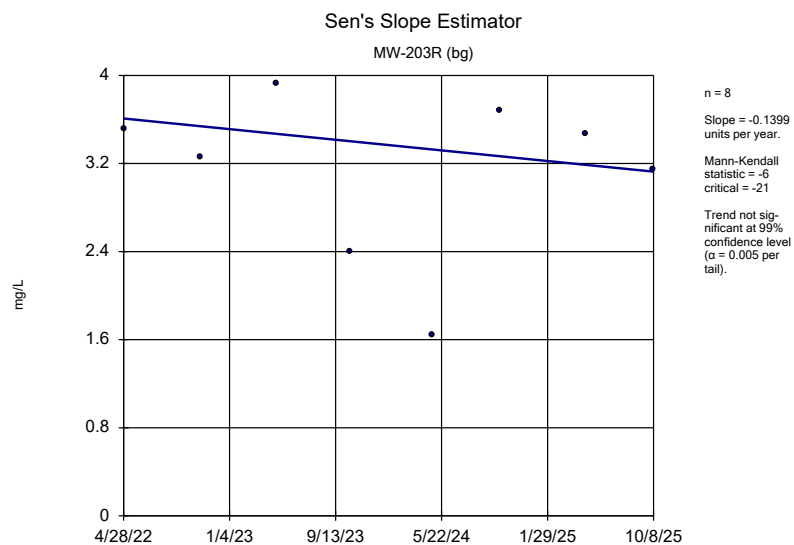
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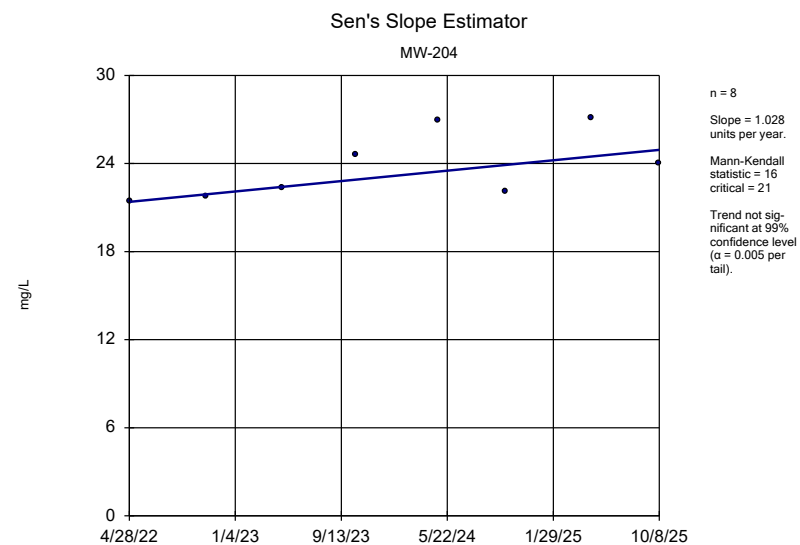
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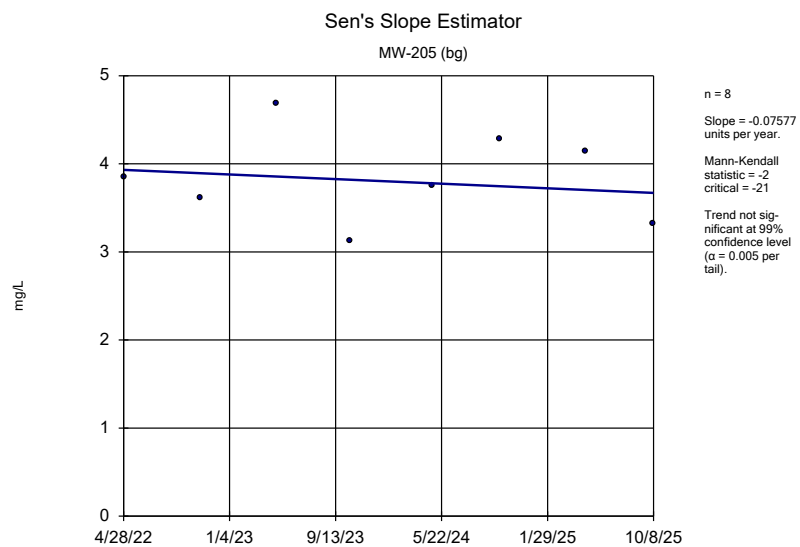
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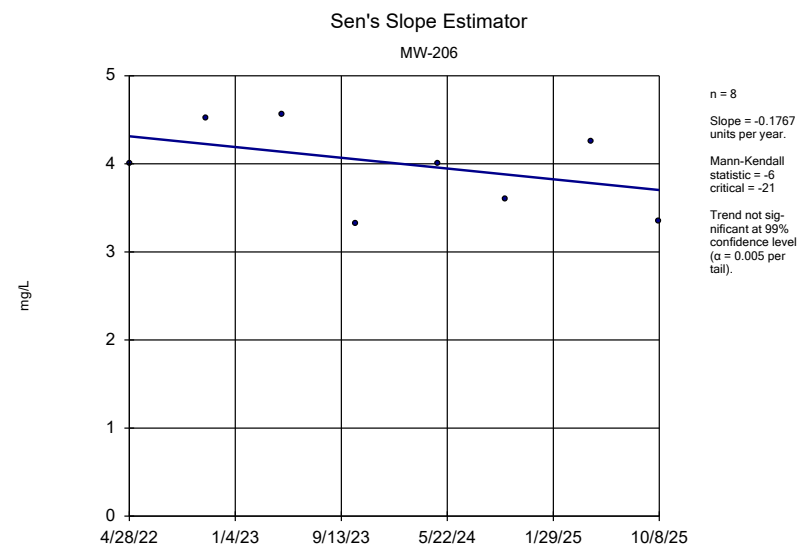
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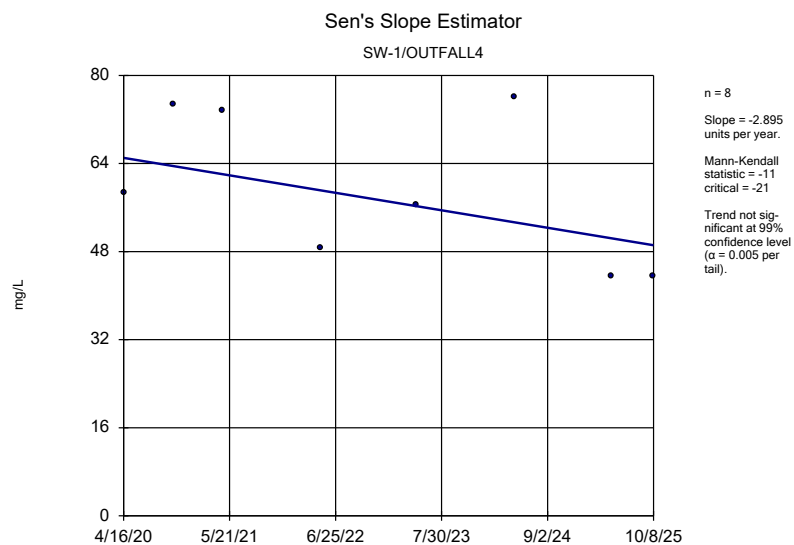
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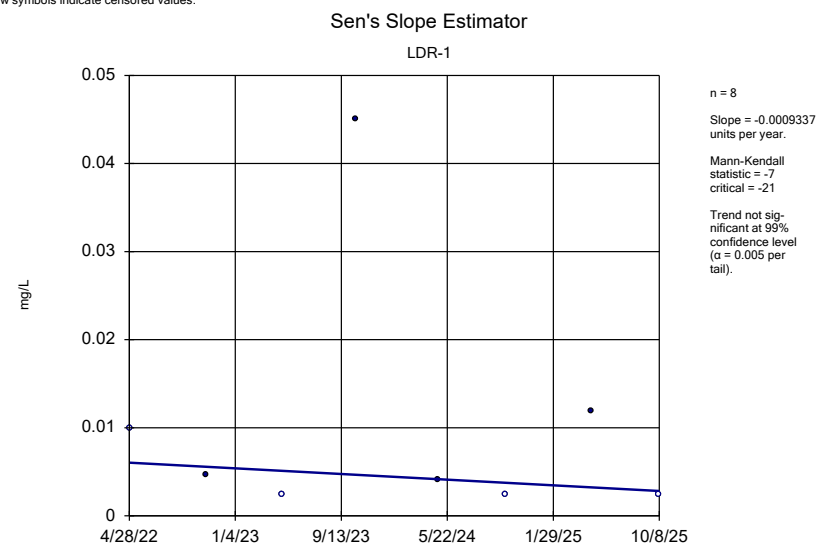
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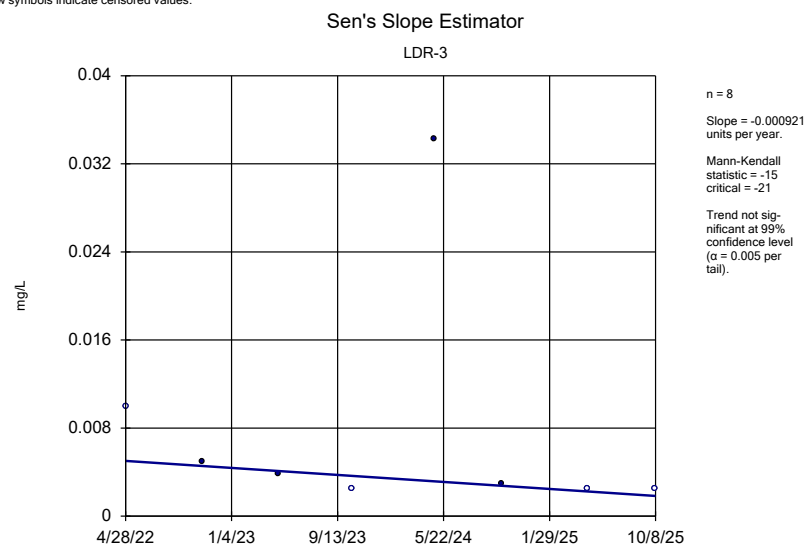
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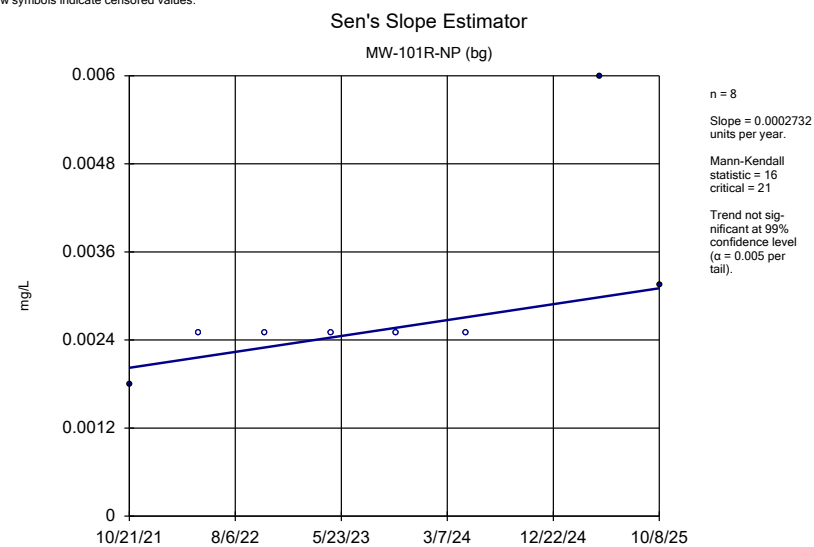
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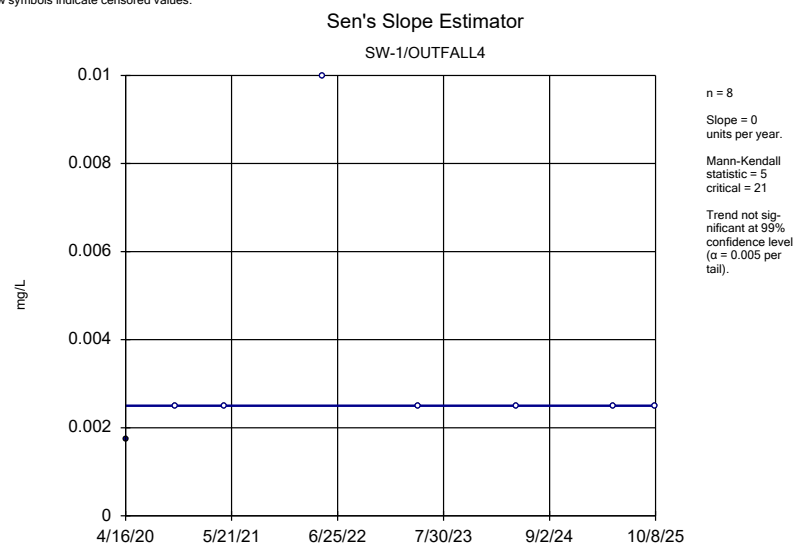
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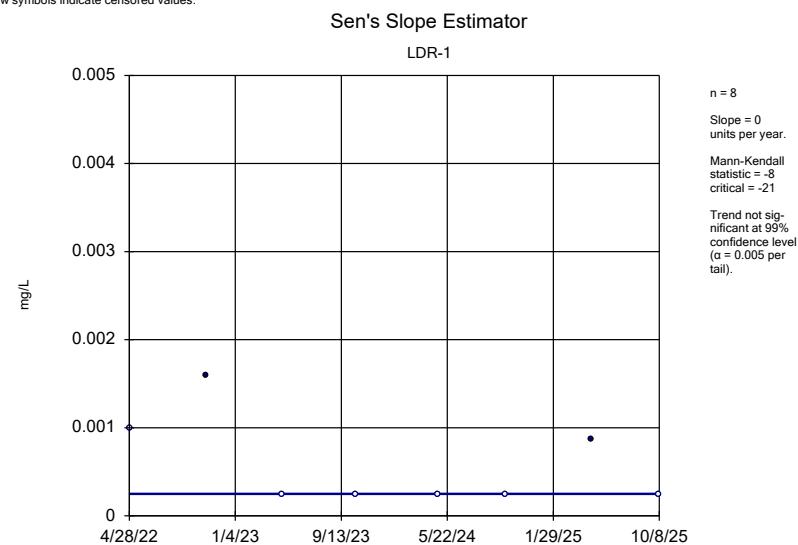
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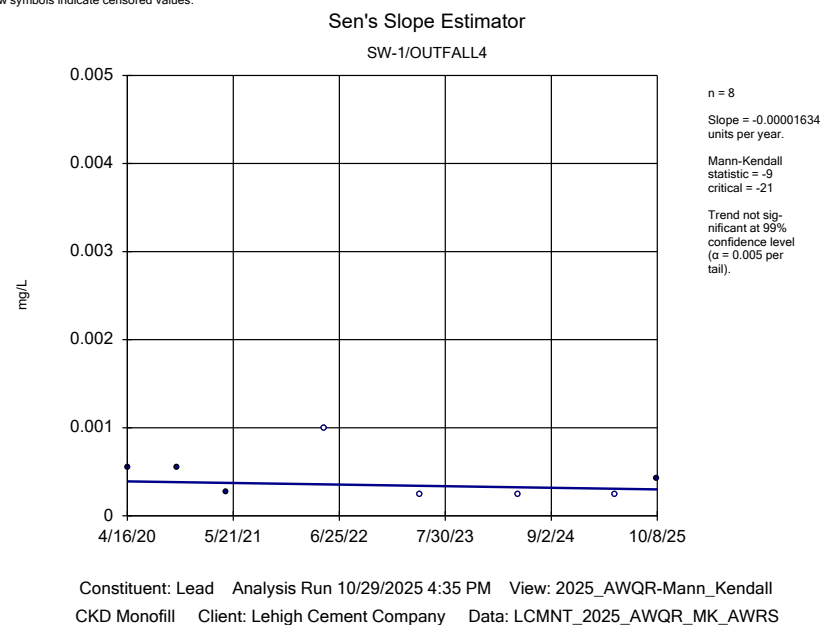
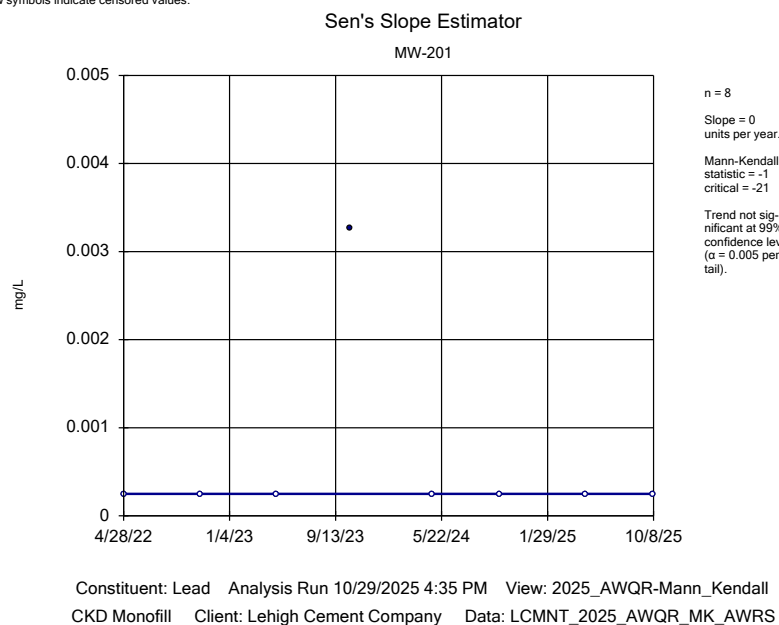
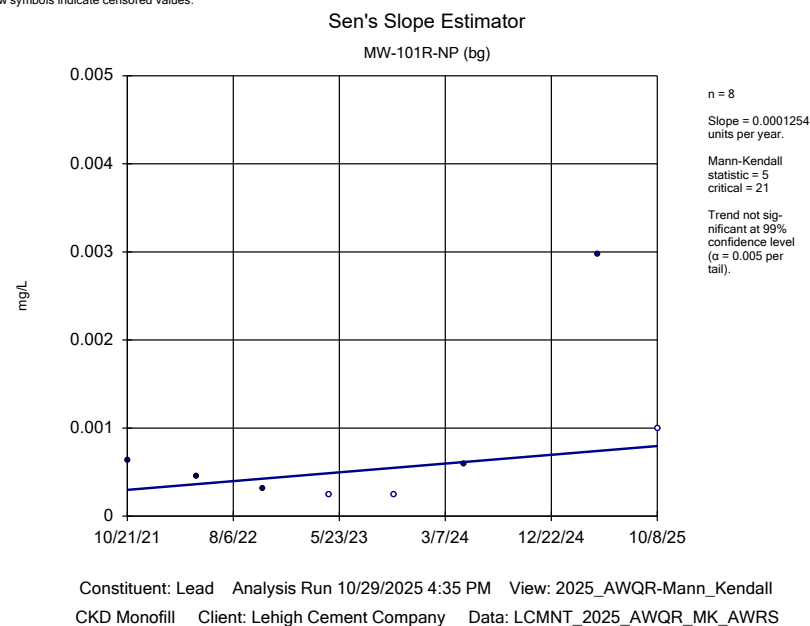
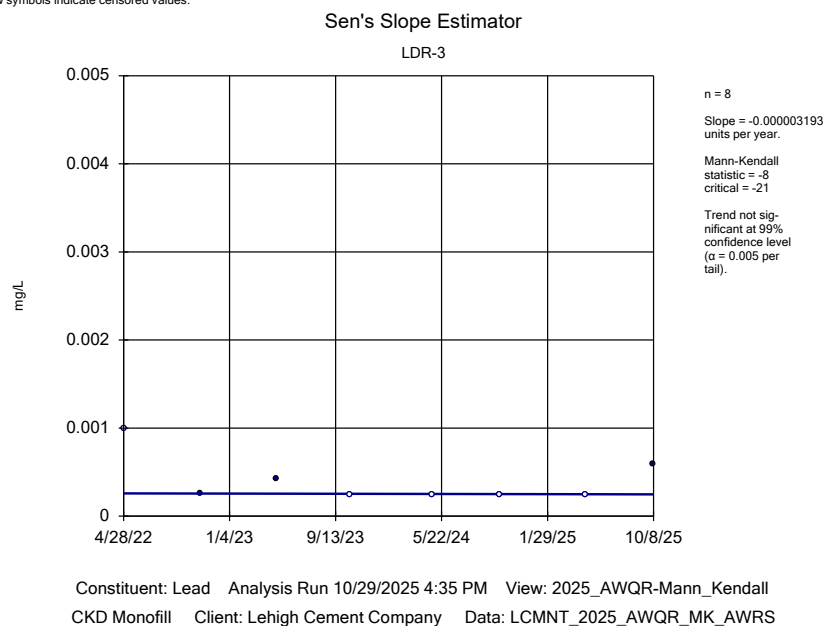
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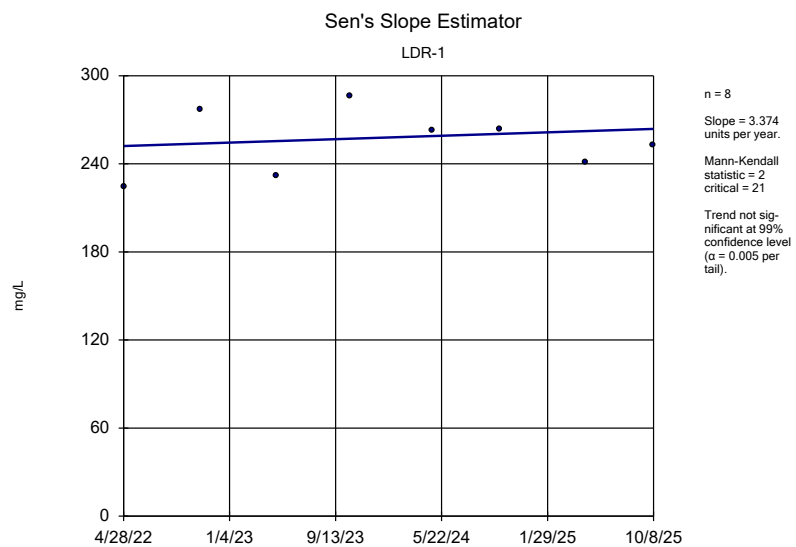


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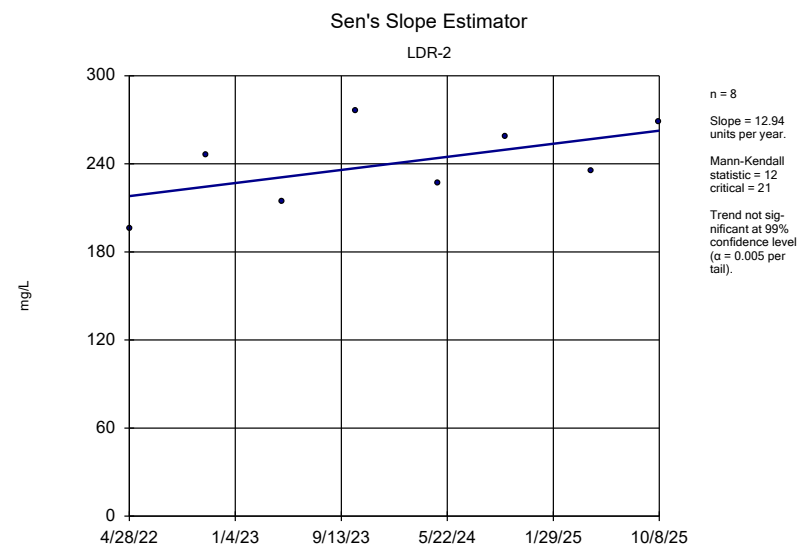


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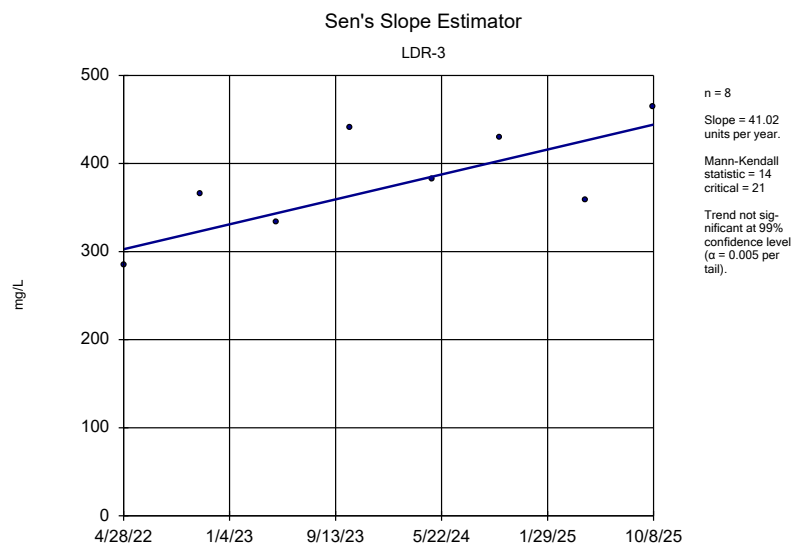




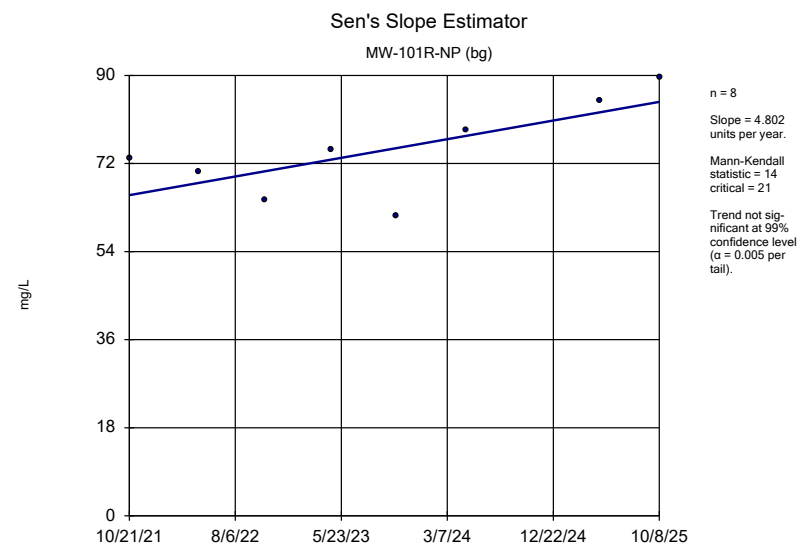
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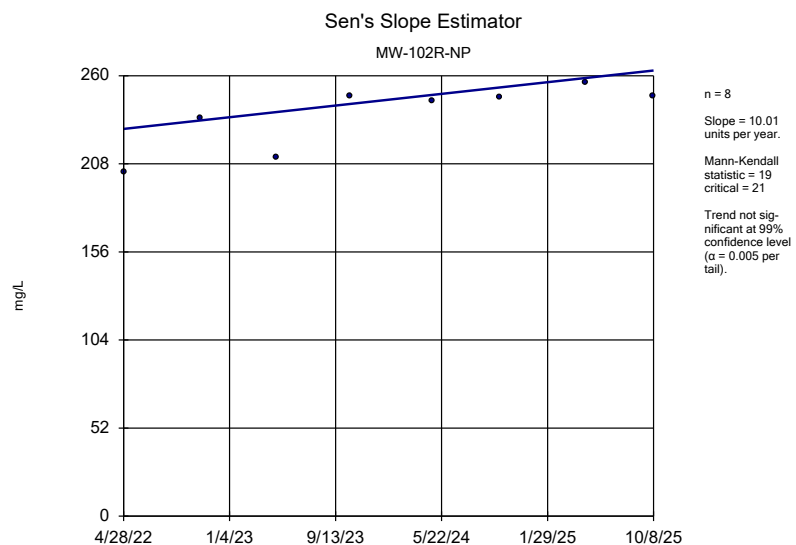
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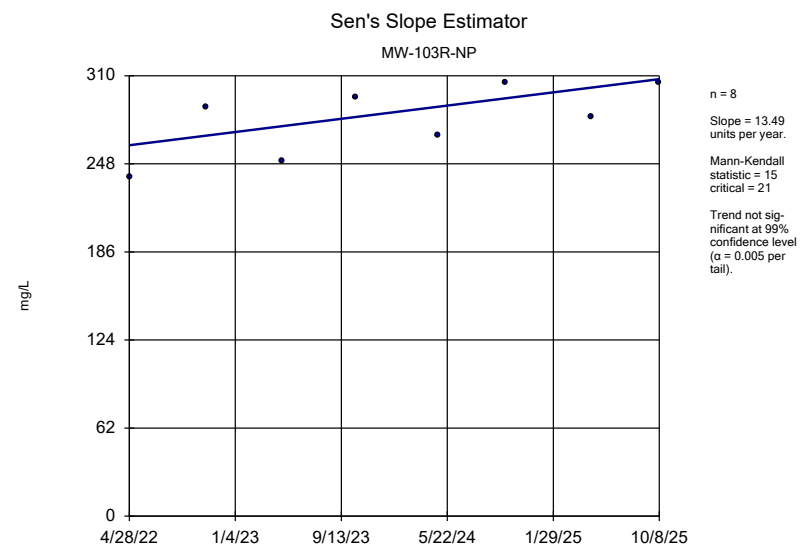
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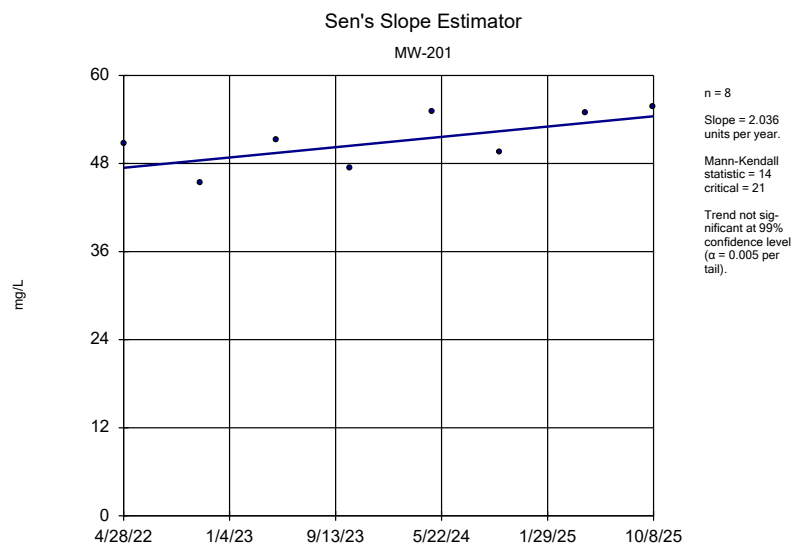
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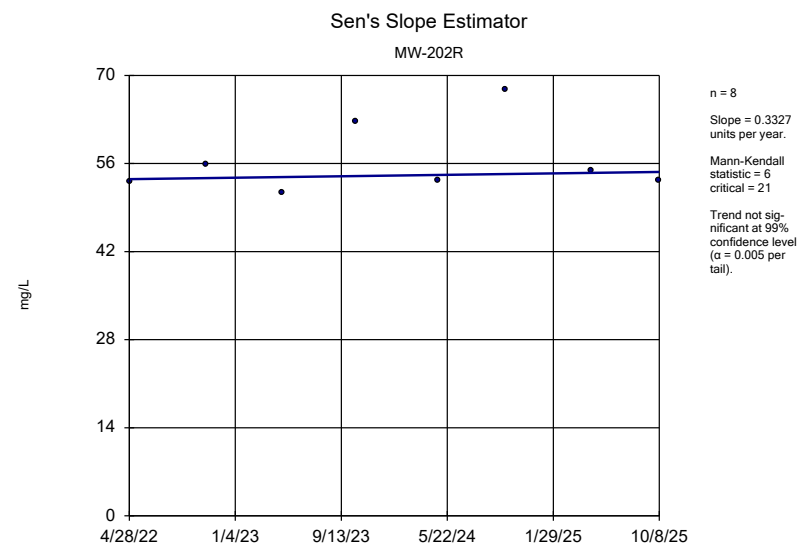
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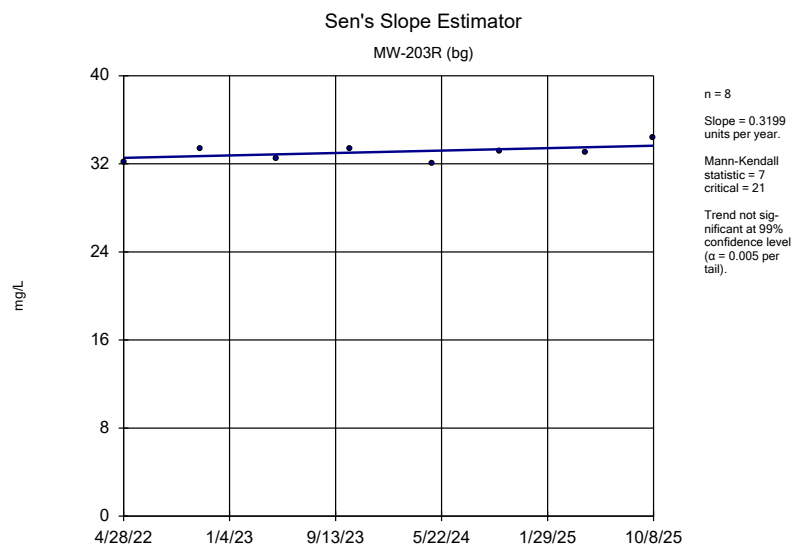
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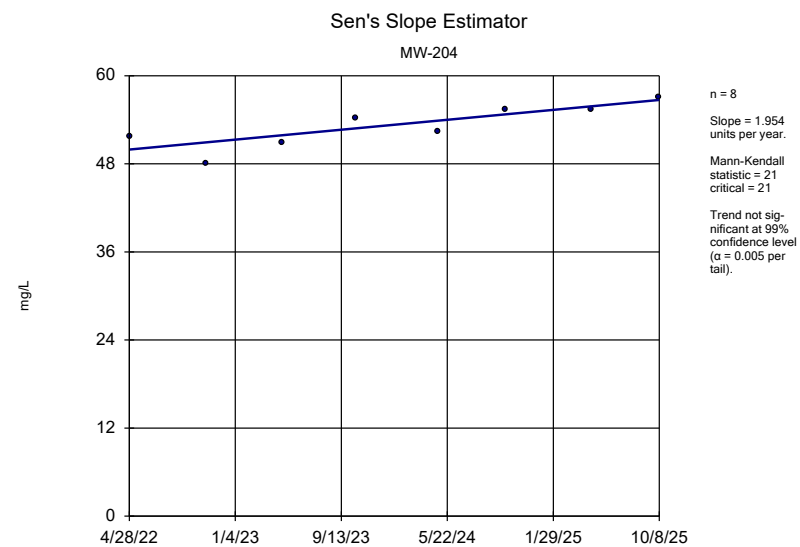
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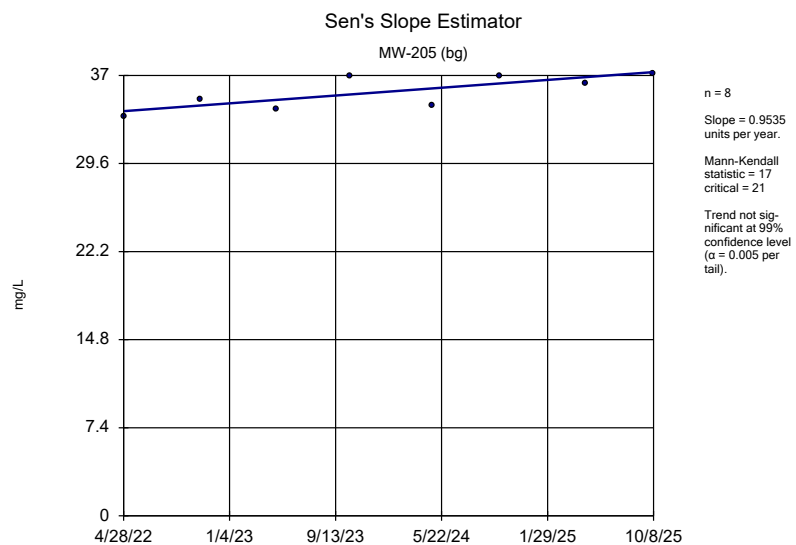
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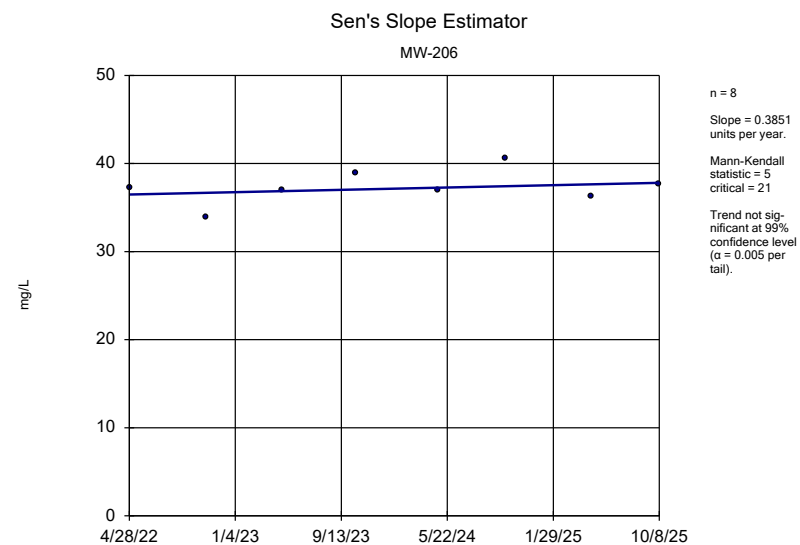
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Magnesium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



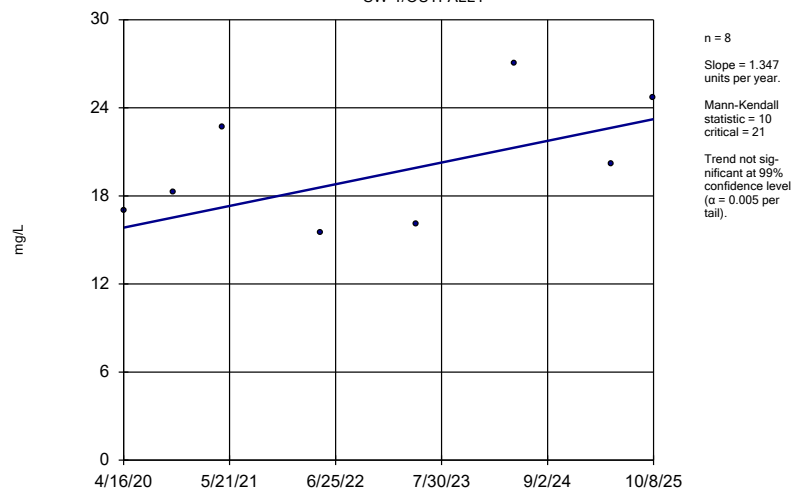
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Magnesium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

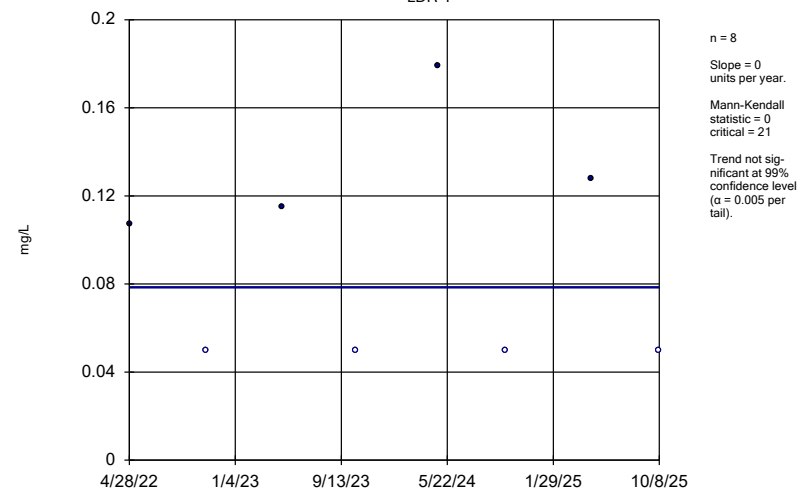
SW-1/OUTFALL4



Constituent: Magnesium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

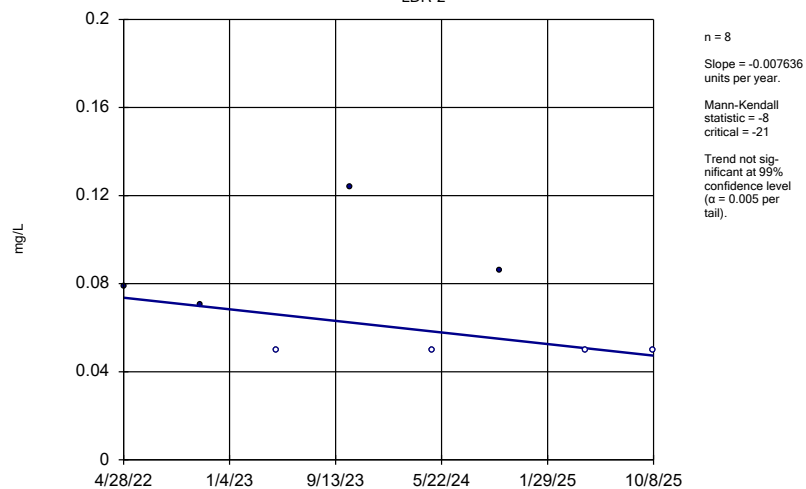
LDR-1



Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

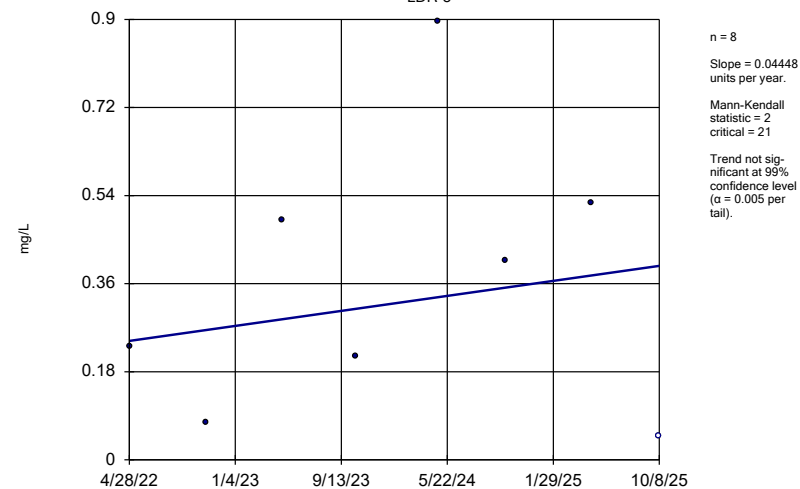
LDR-2



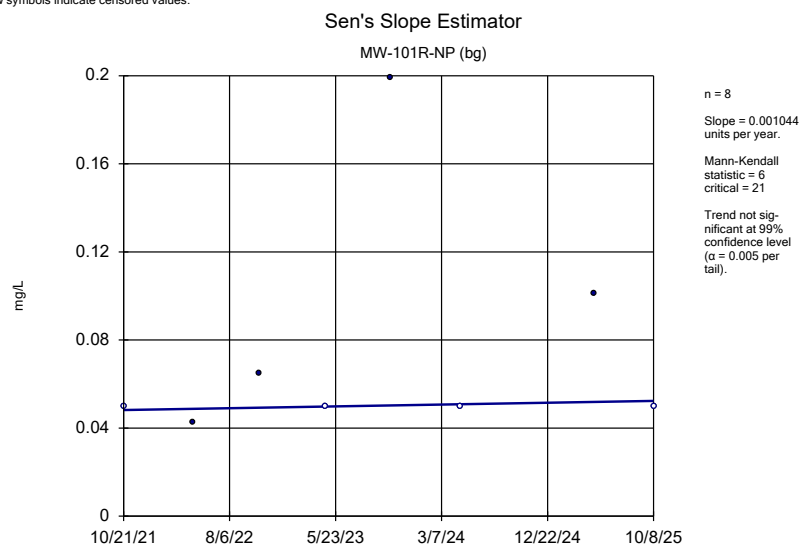
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

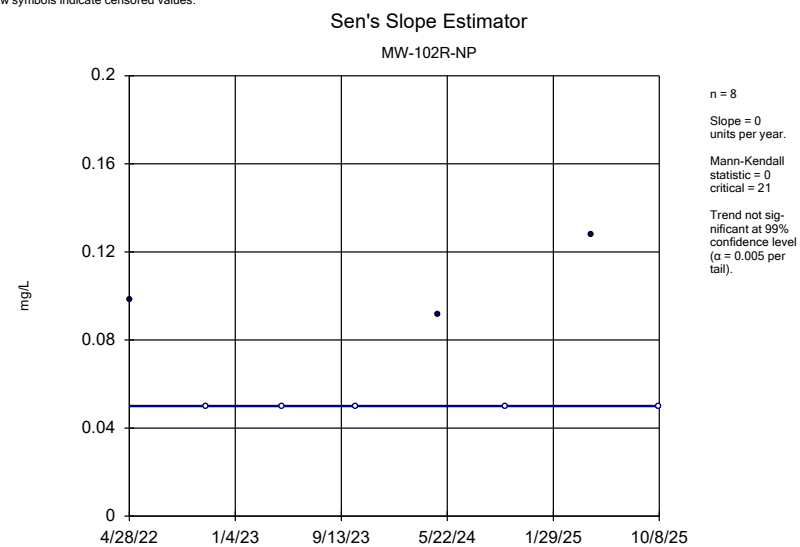
LDR-3



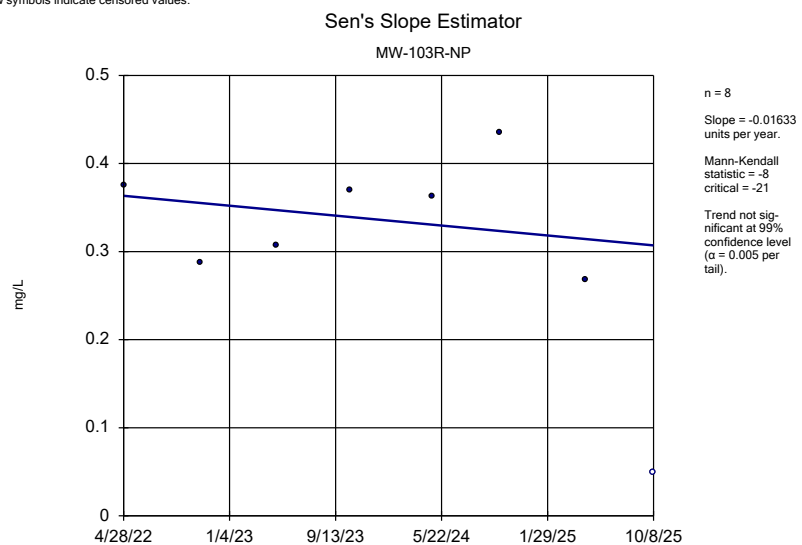
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



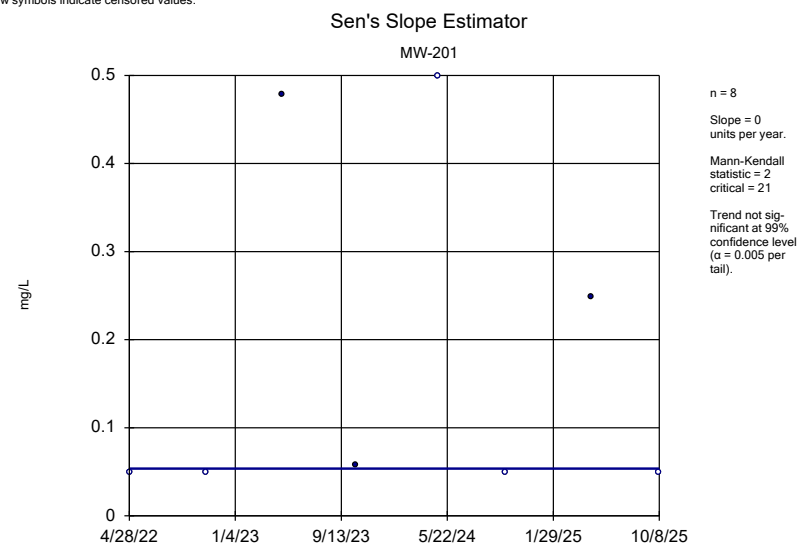
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



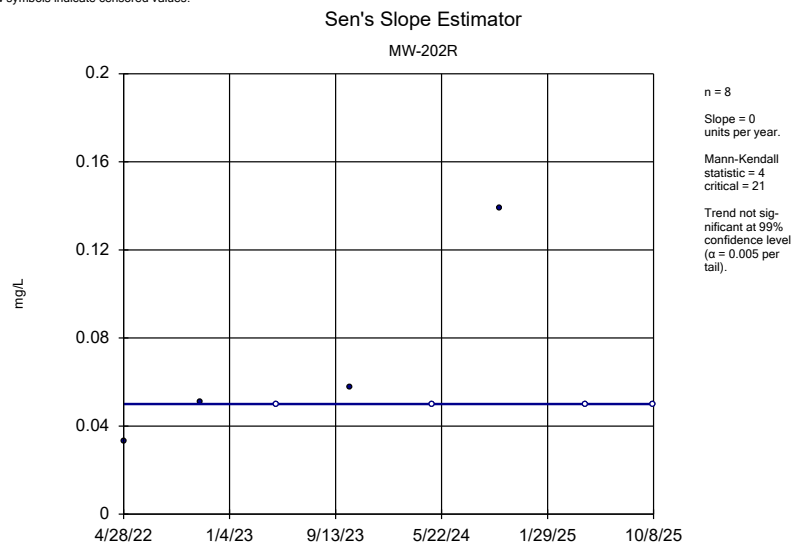
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



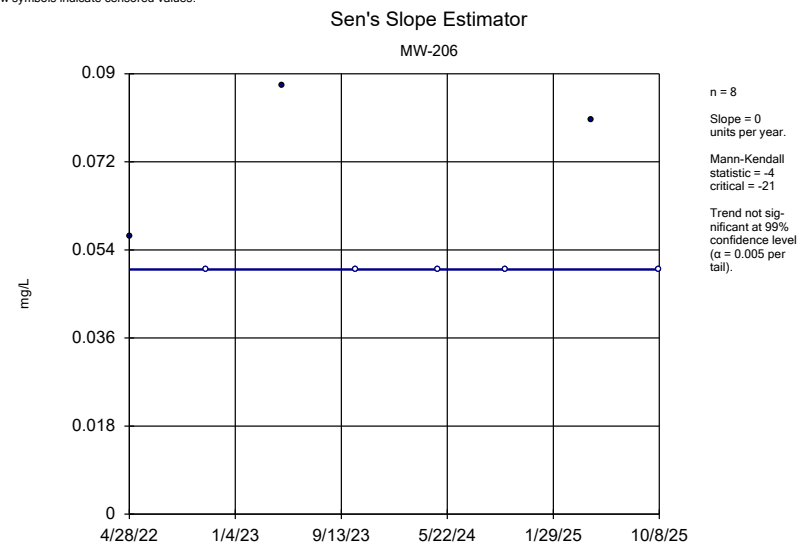
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



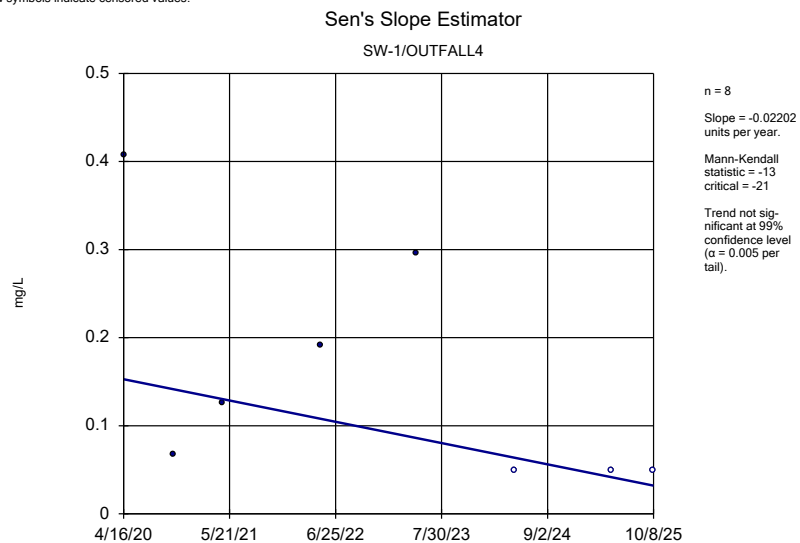
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



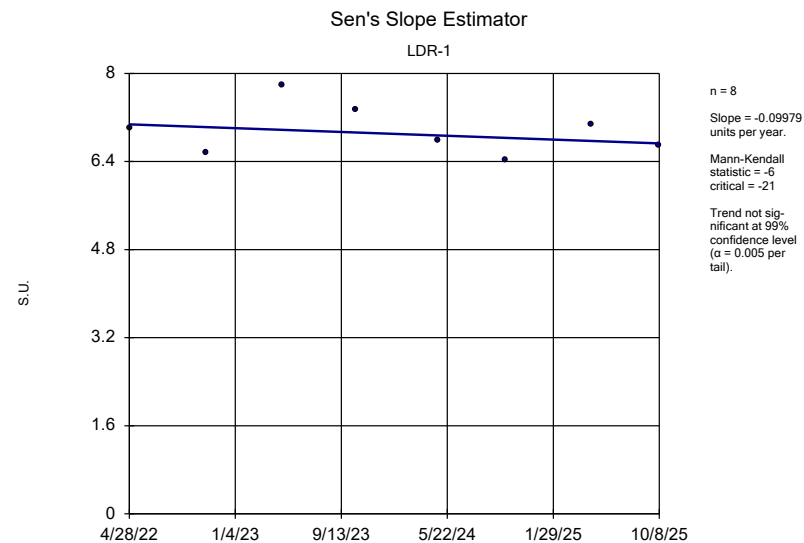
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



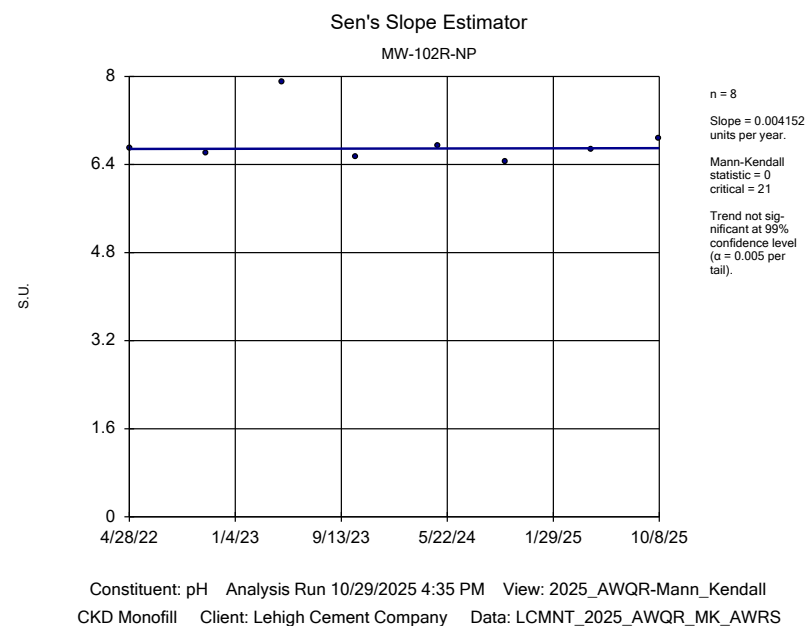
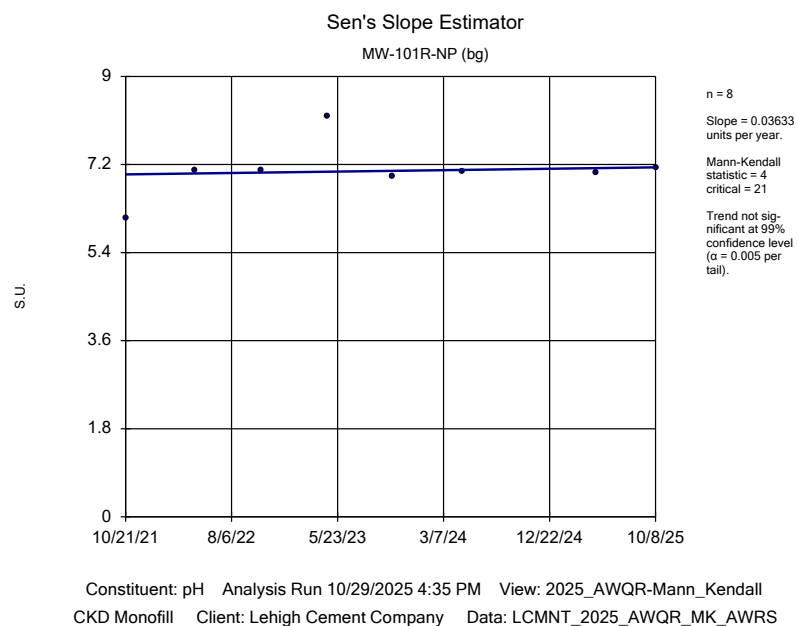
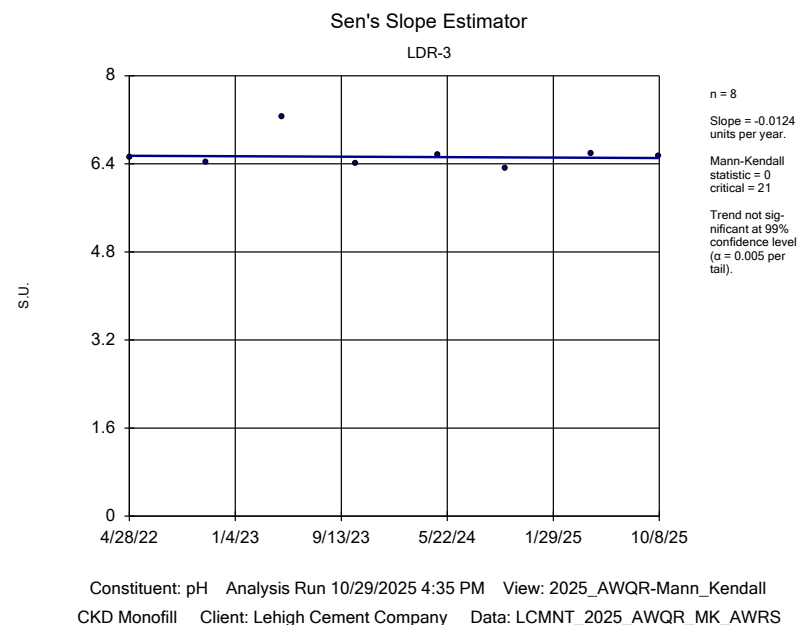
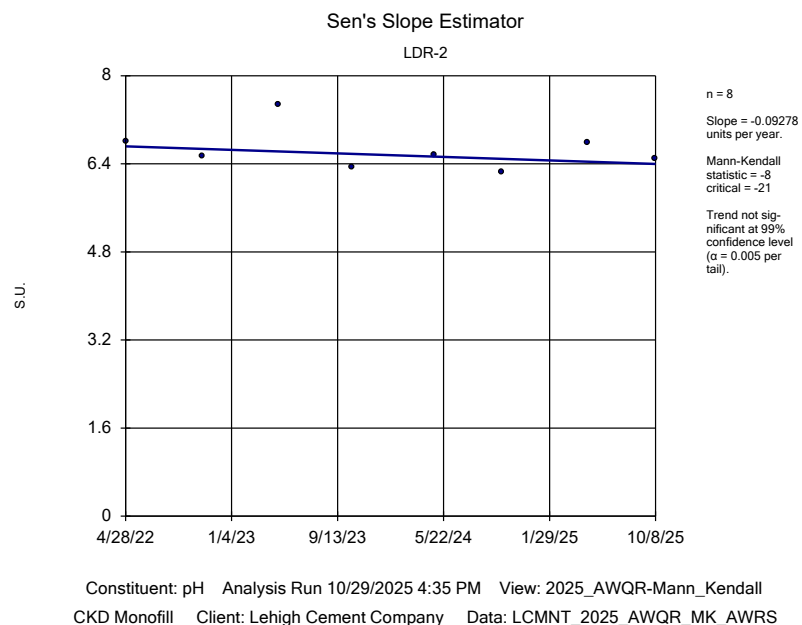
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

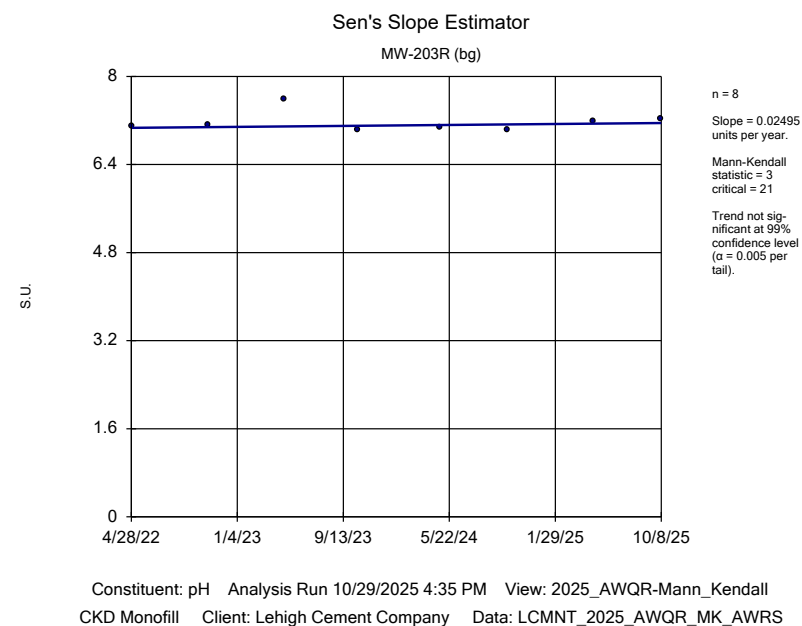
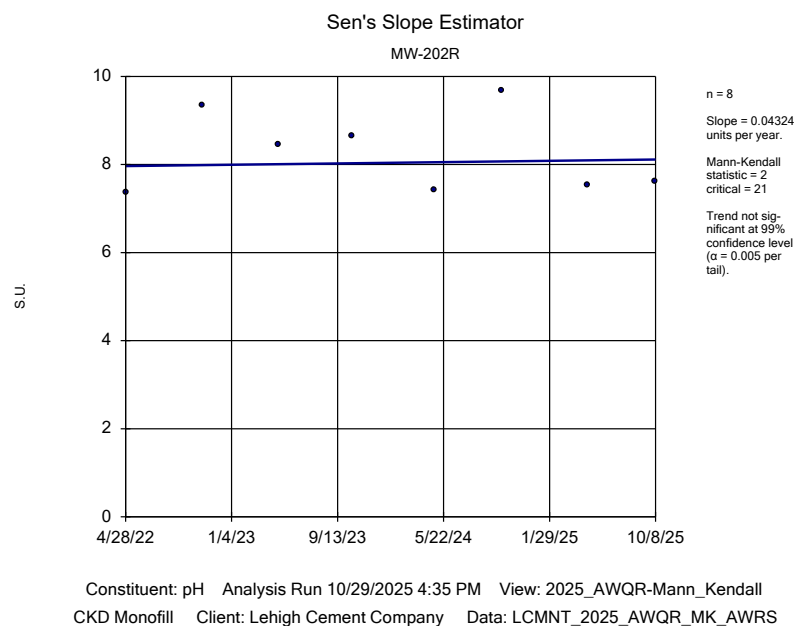
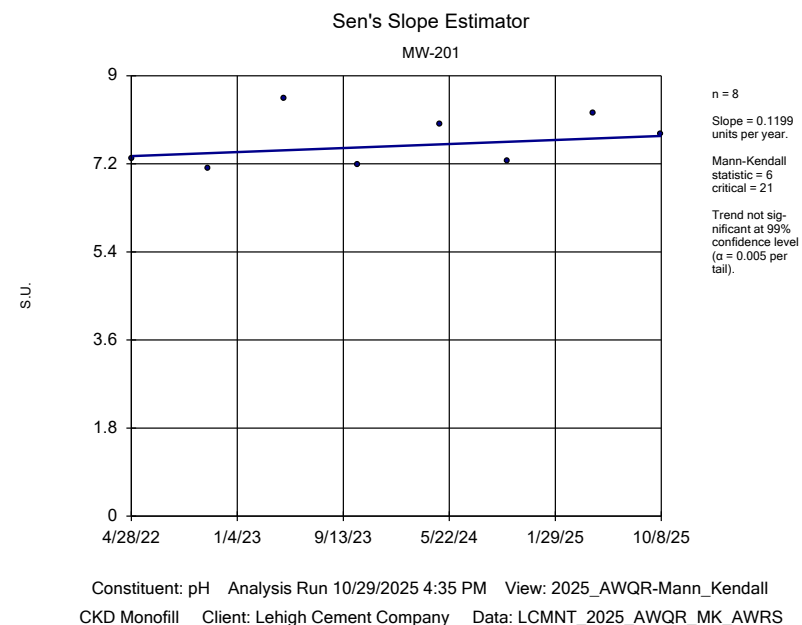
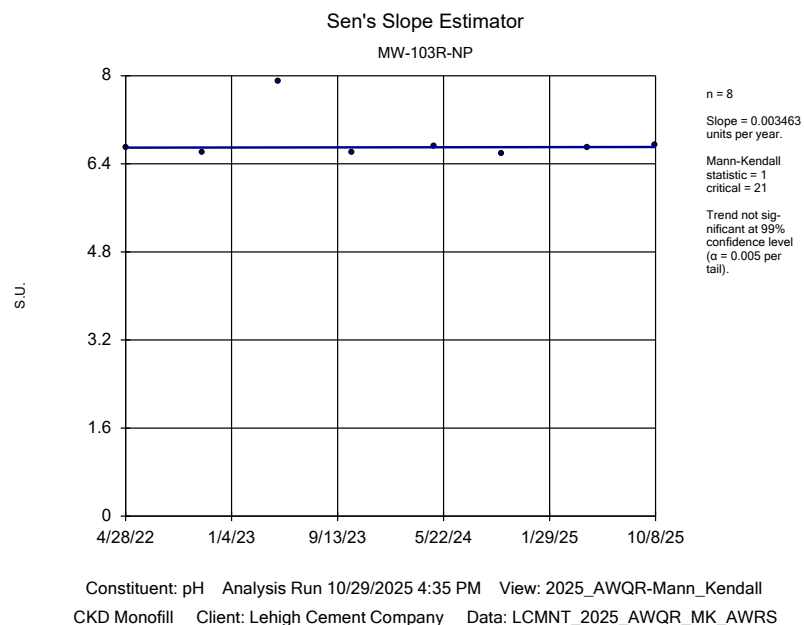


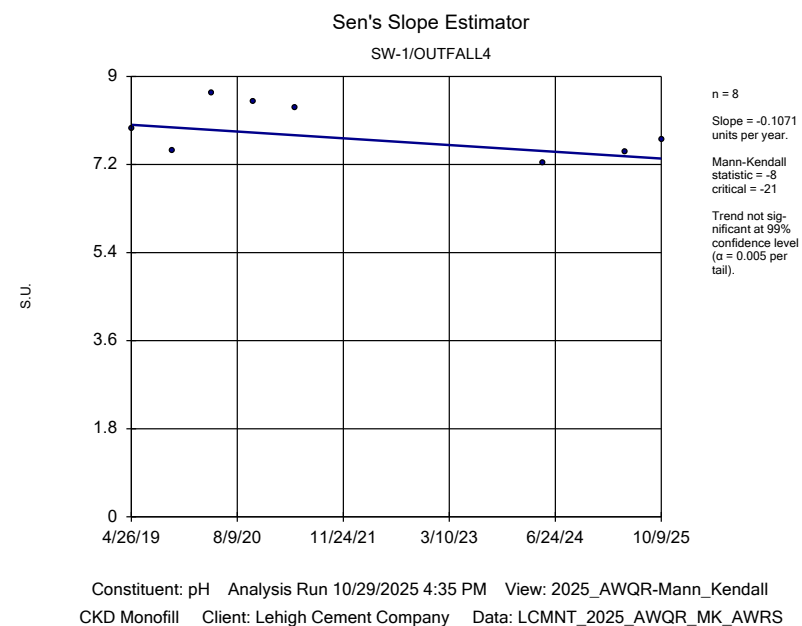
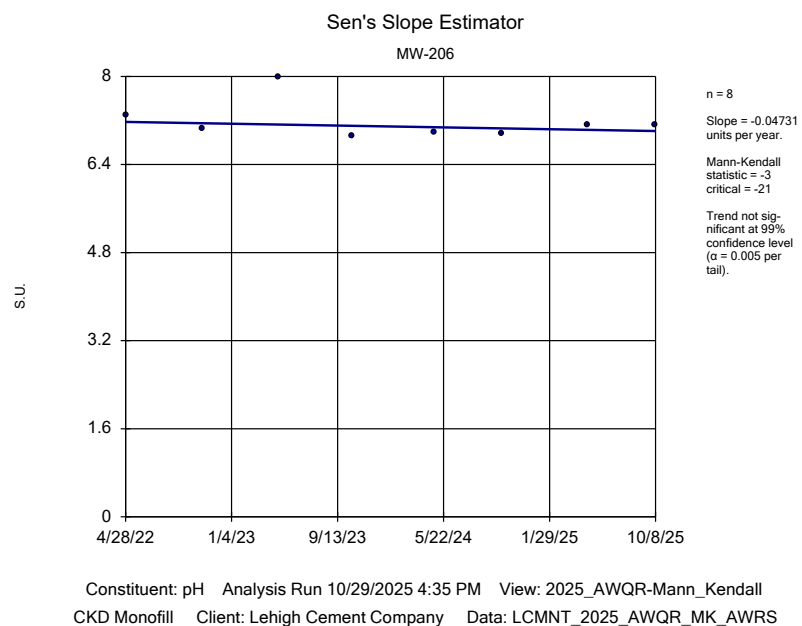
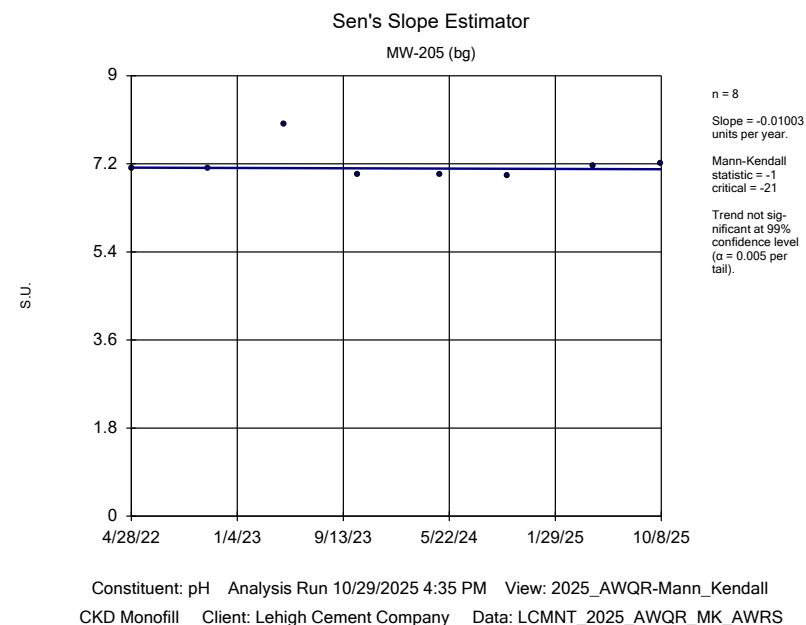
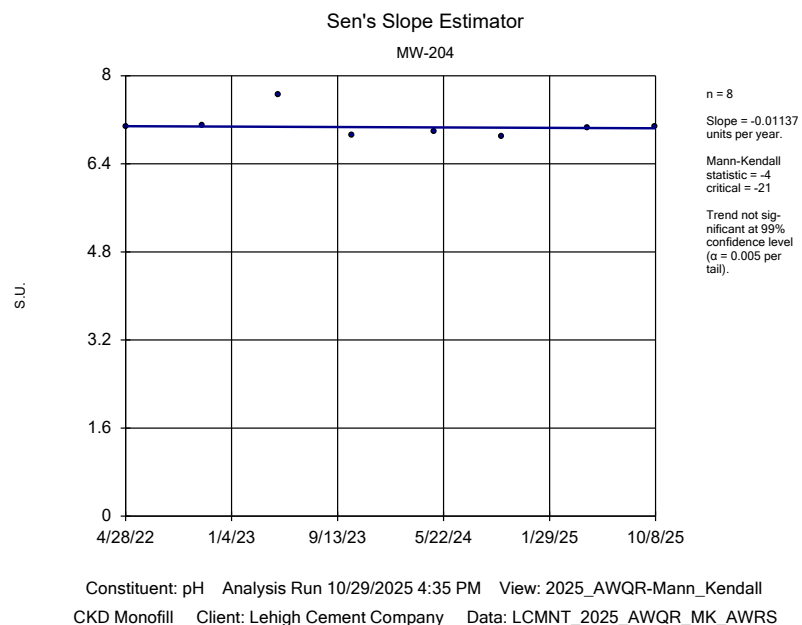
Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

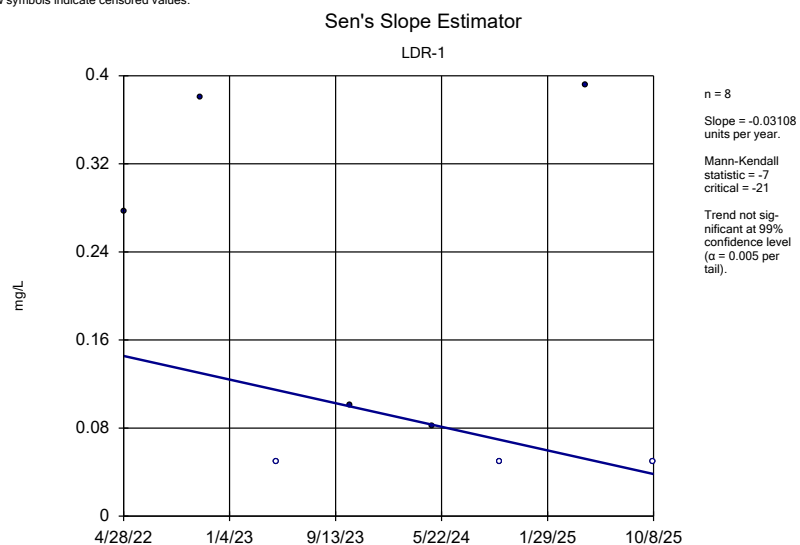


Constituent: pH Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

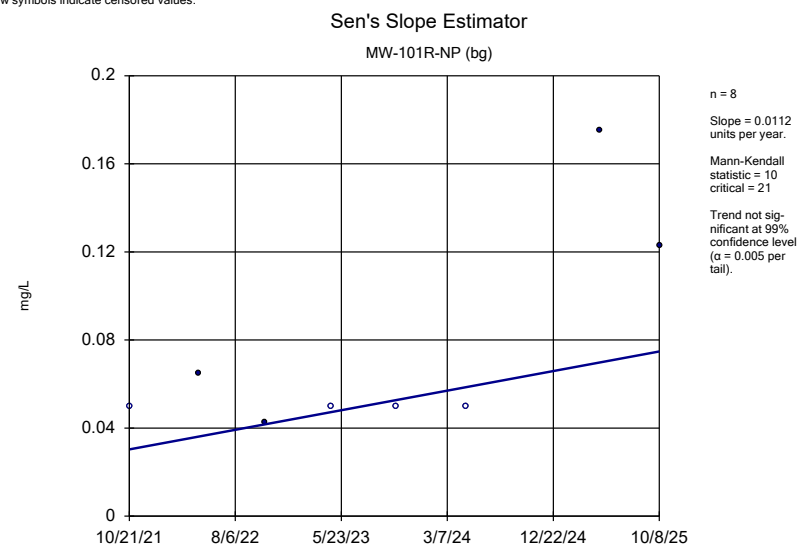




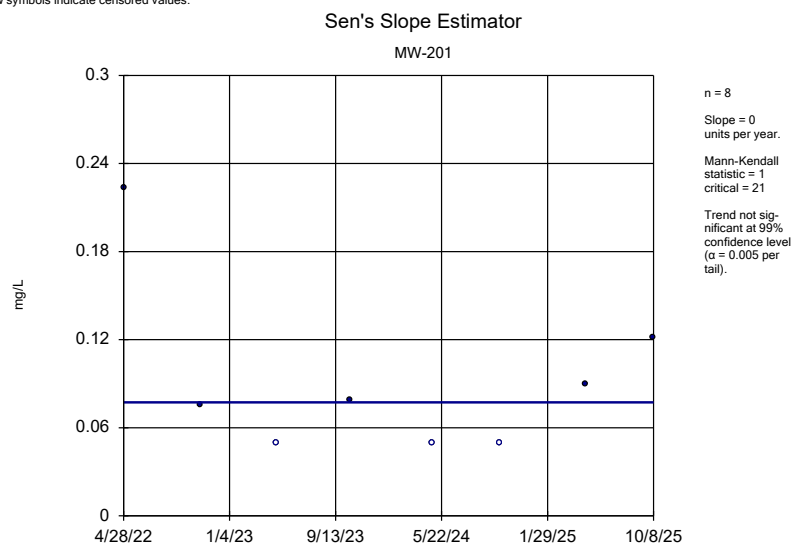




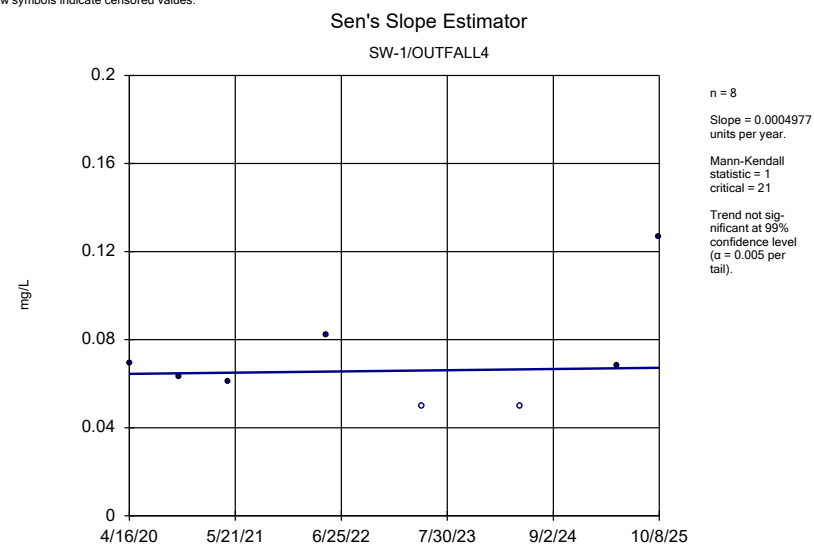
Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kend
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kend
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



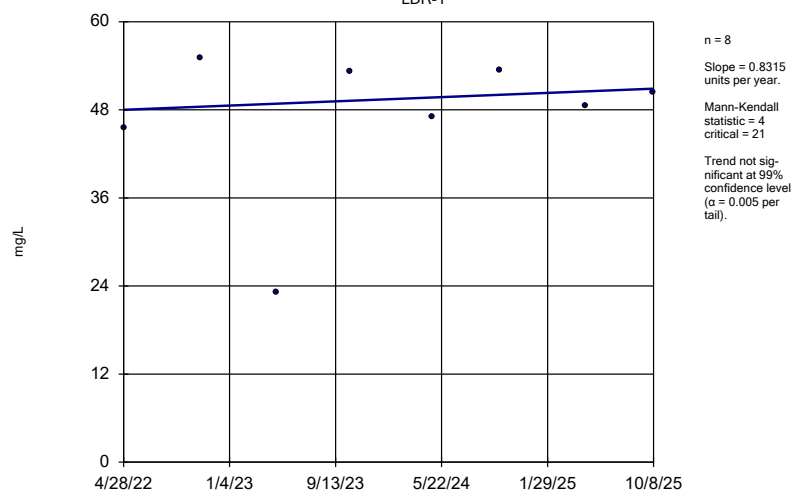
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kend
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

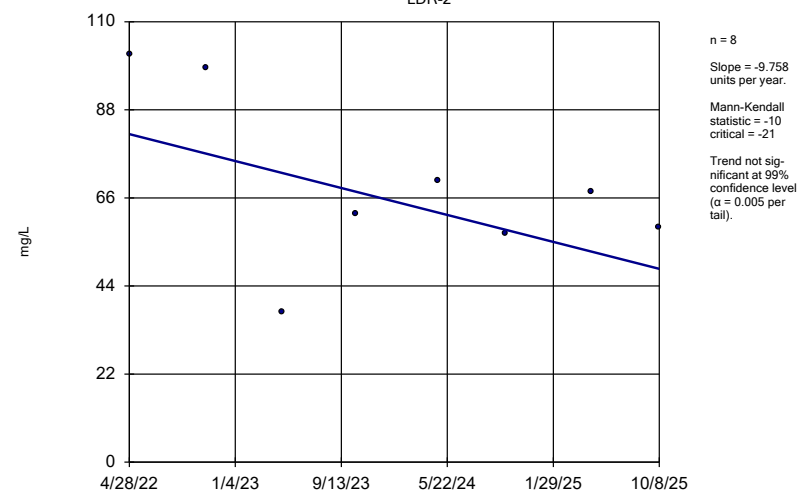
LDR-1



Constituent: Potassium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

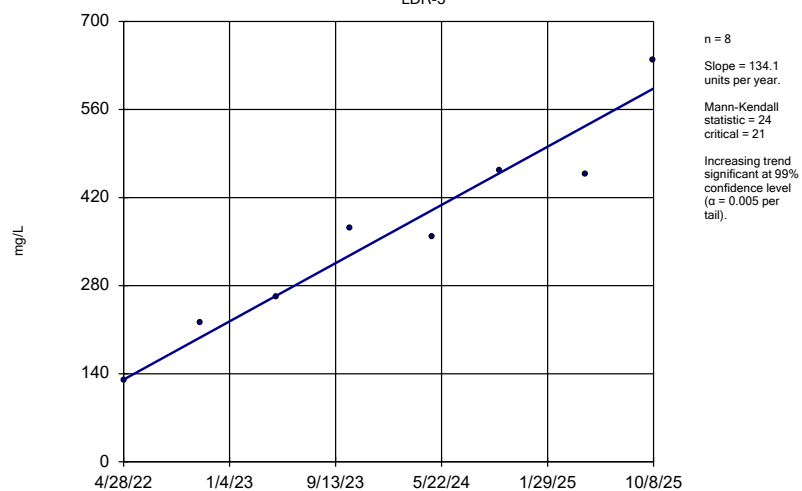
LDR-2



Constituent: Potassium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

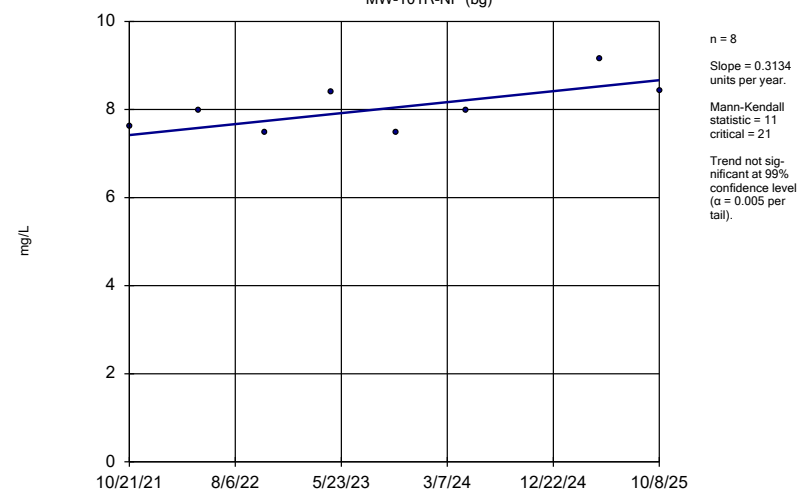
LDR-3



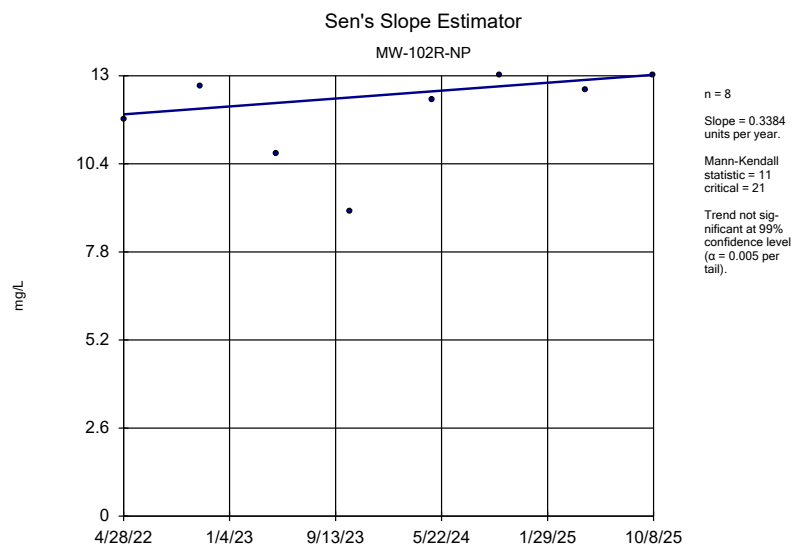
Constituent: Potassium Analysis Run 10/29/2025 4:35 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

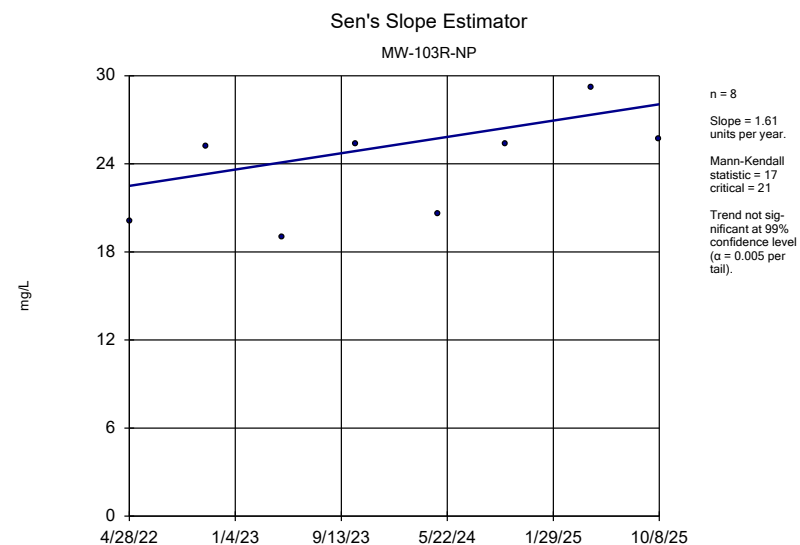
MW-101R-NP (bg)



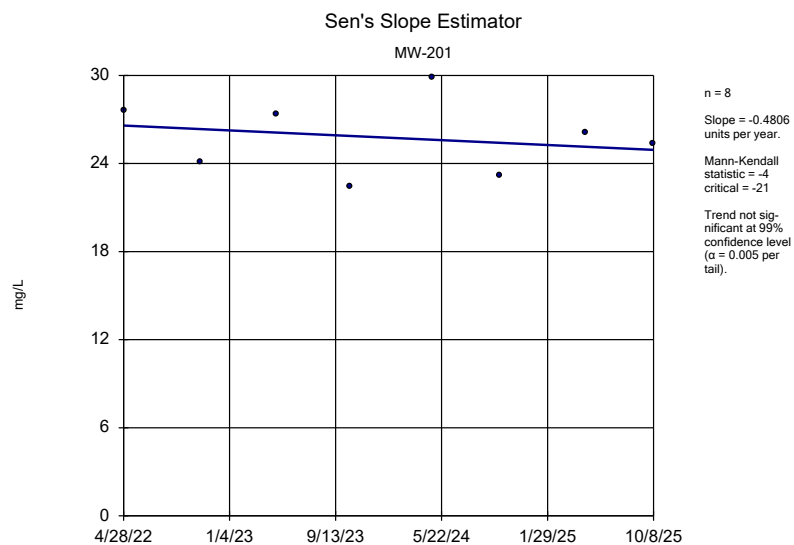
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



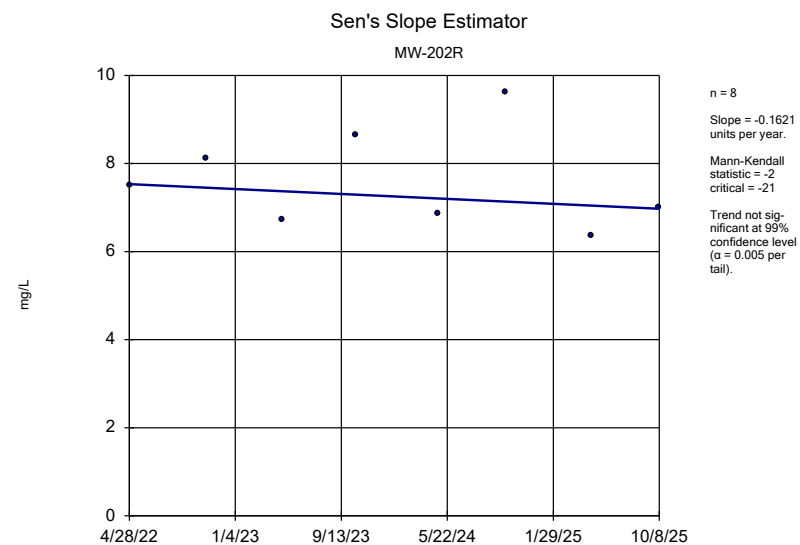
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



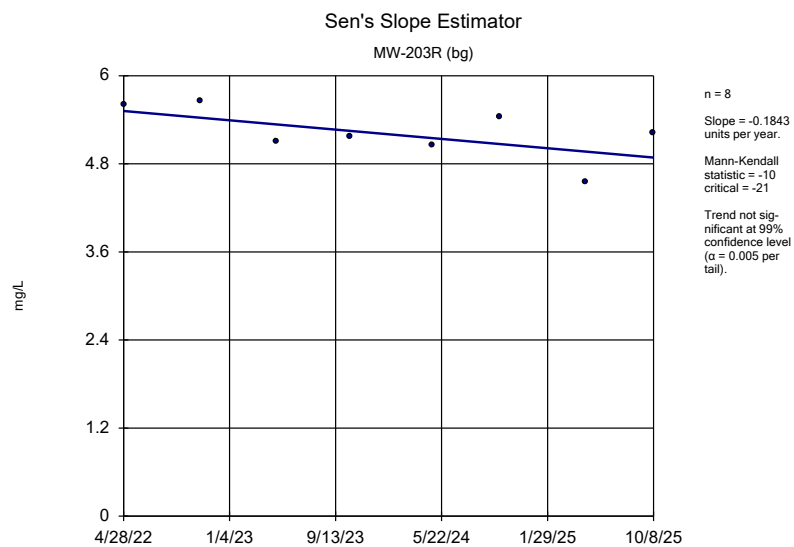
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



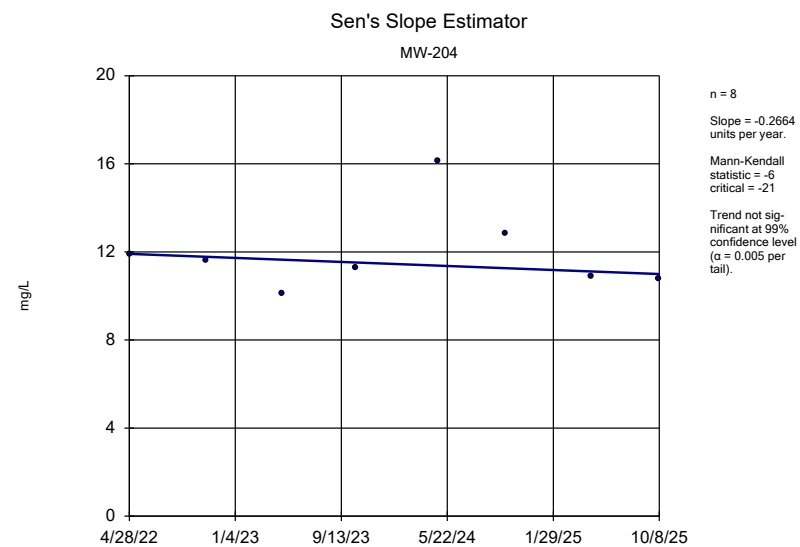
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



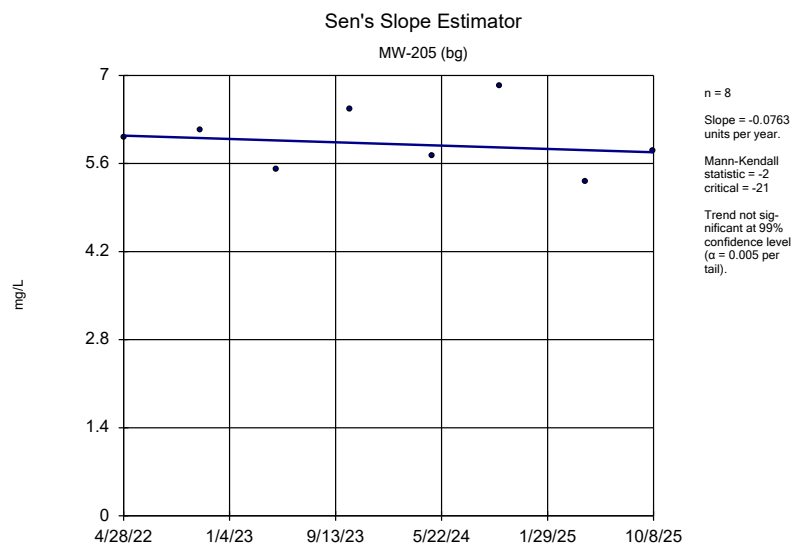
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



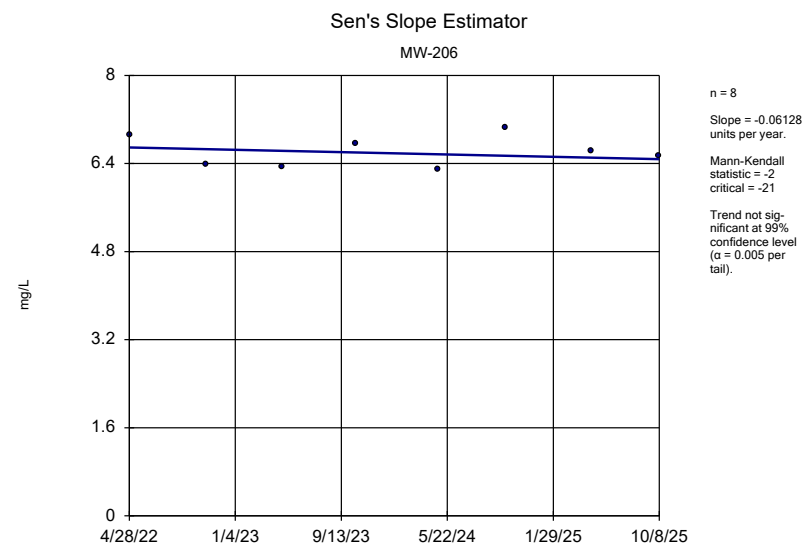
Constituent: Potassium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Potassium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



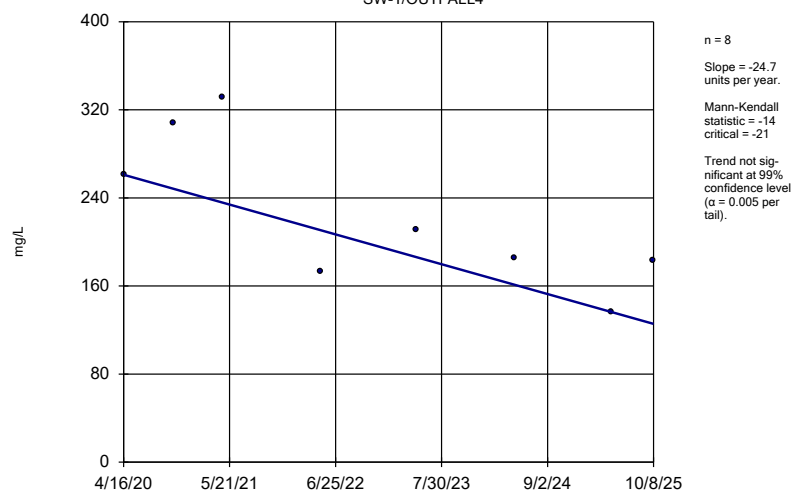
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Potassium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

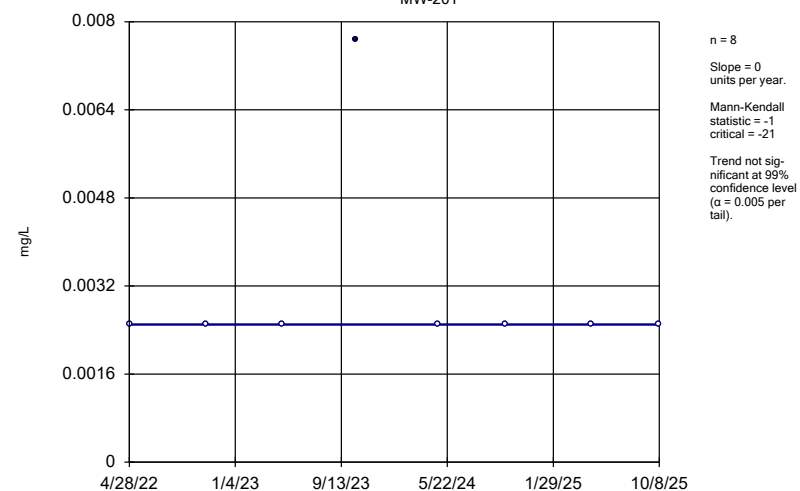
SW-1/OUTFALL4



Constituent: Potassium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

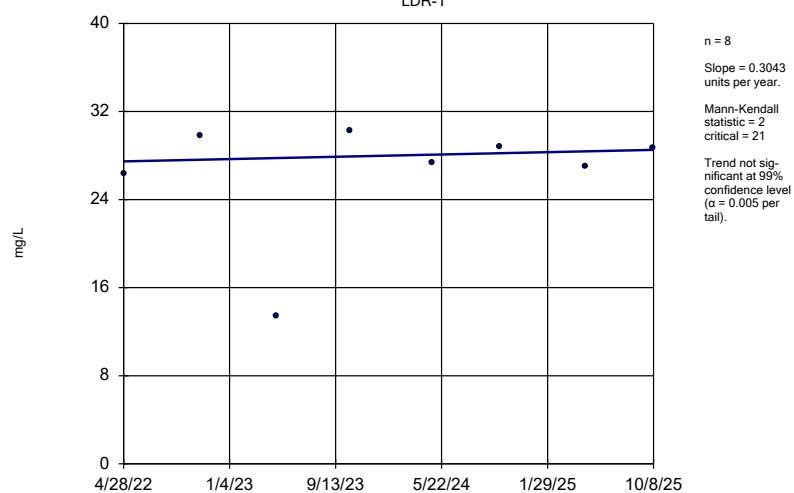
MW-201



Constituent: Selenium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

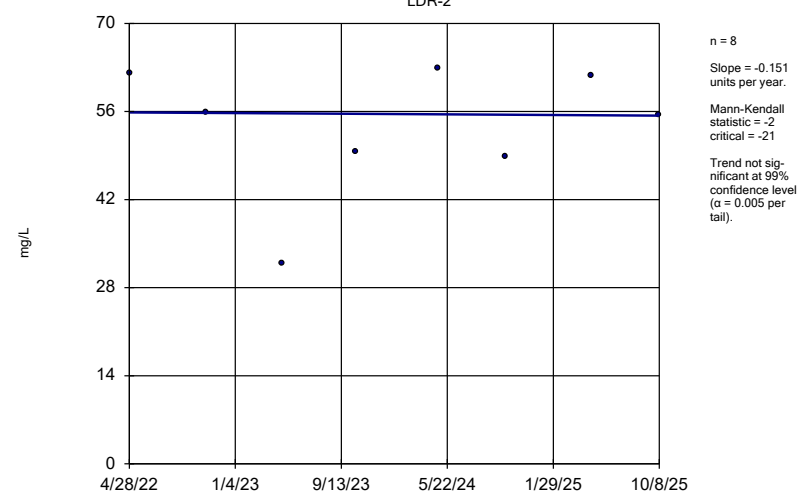
LDR-1



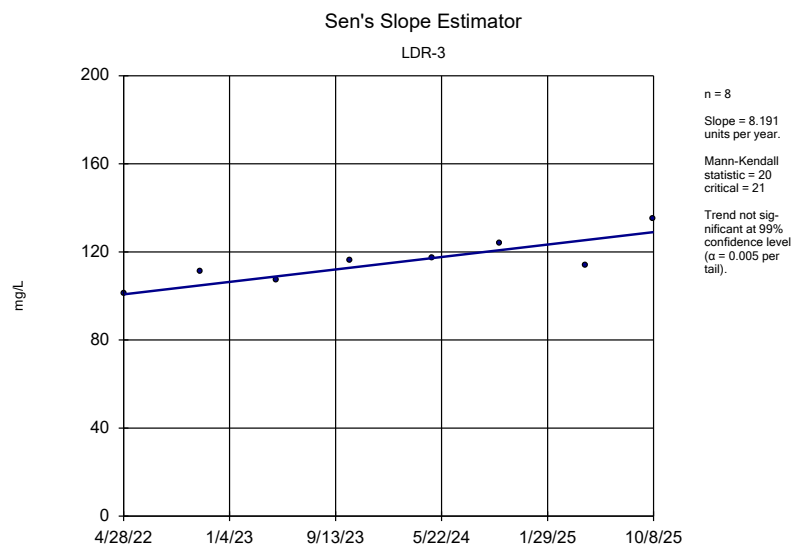
Constituent: Sodium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS

Sen's Slope Estimator

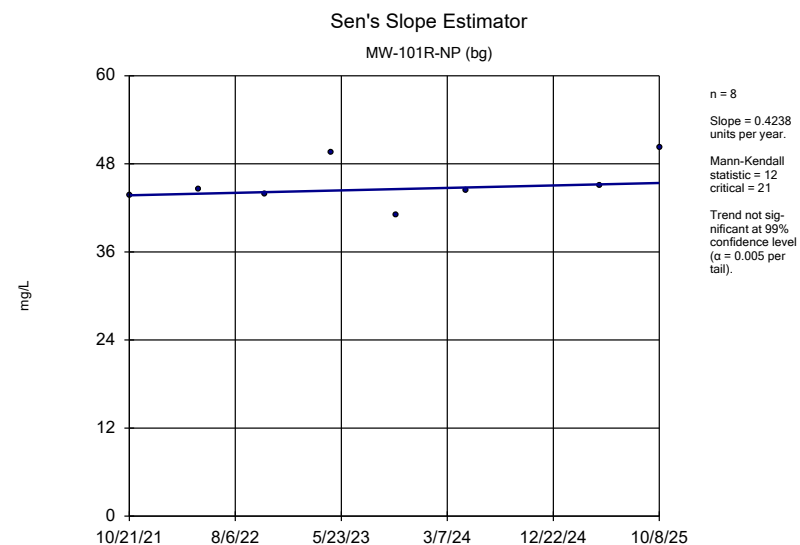
LDR-2



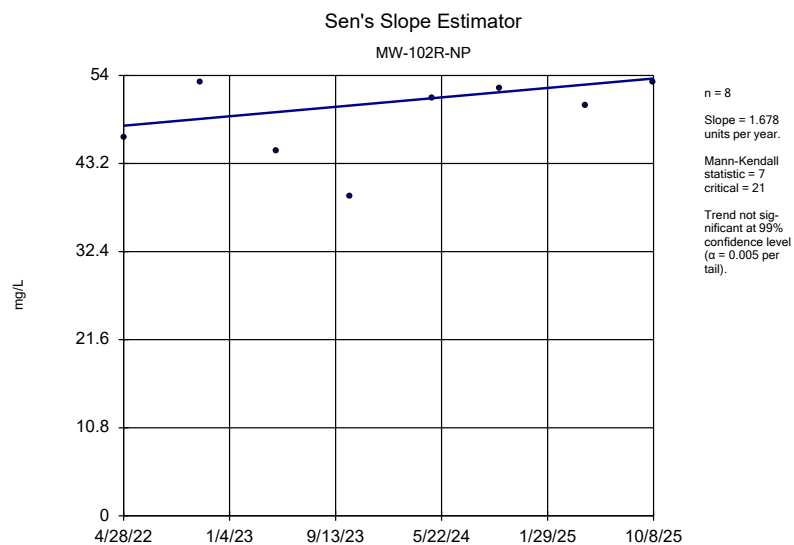
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



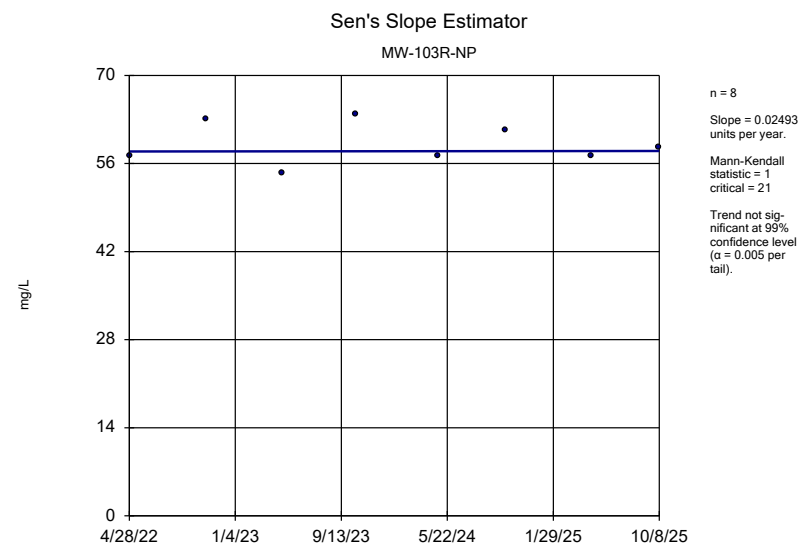
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



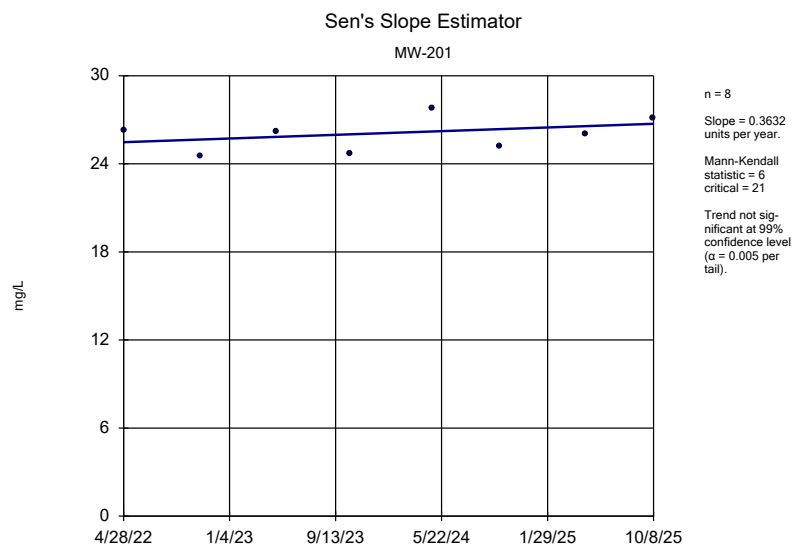
Constituent: Sodium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



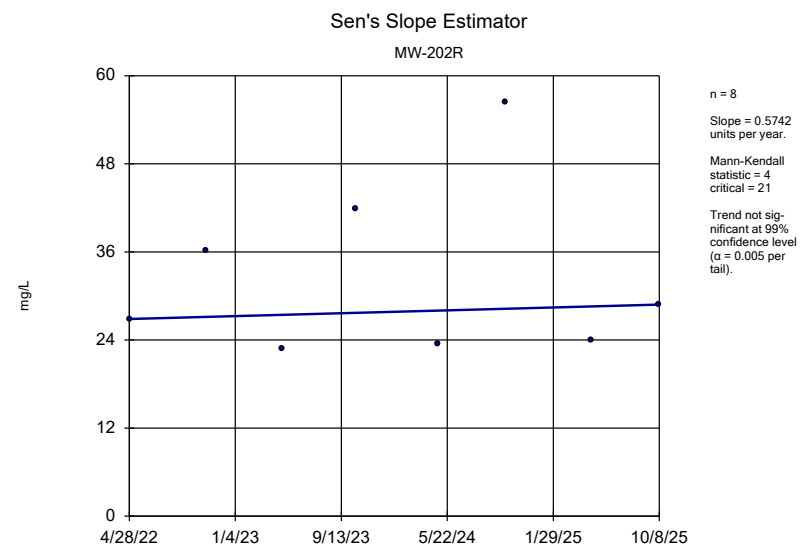
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



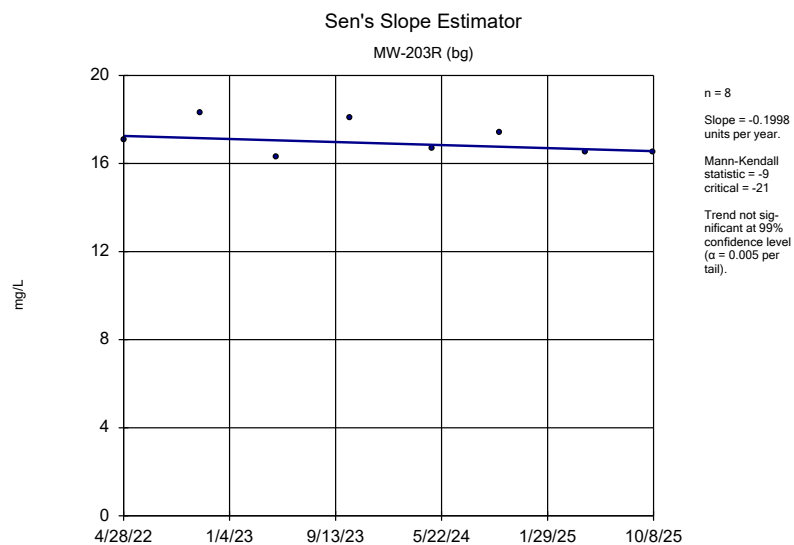
Constituent: Sodium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



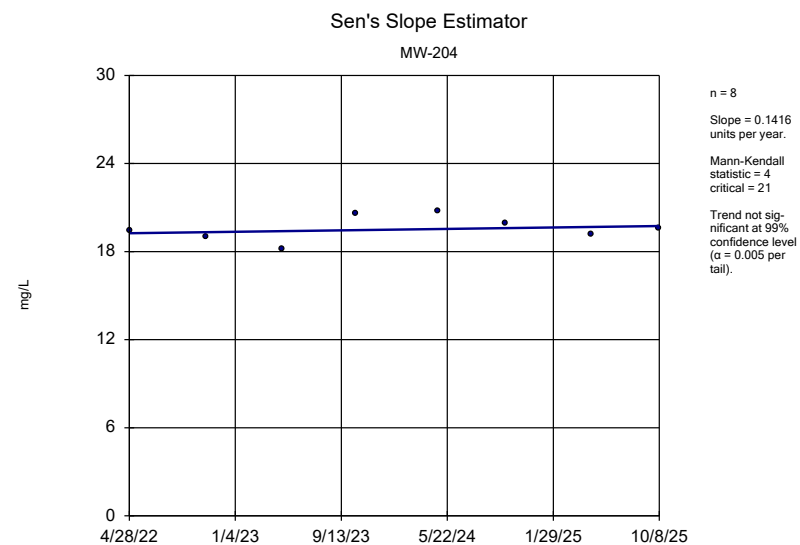
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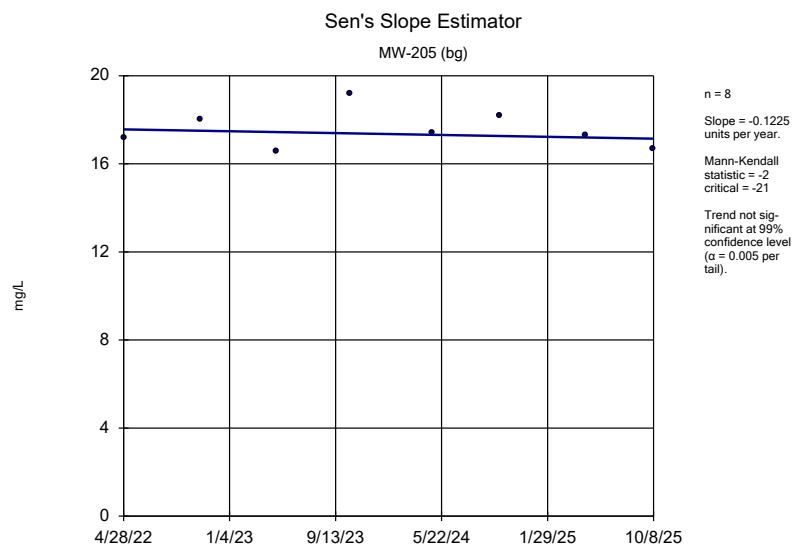
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



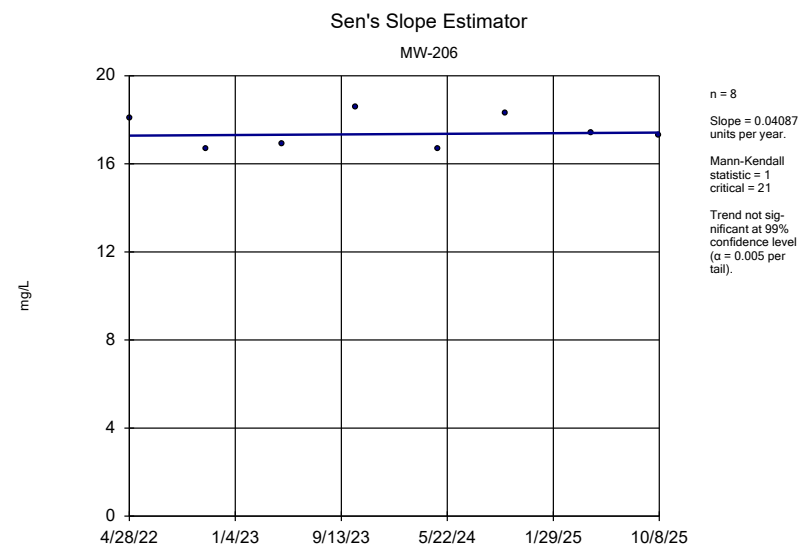
Constituent: Sodium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



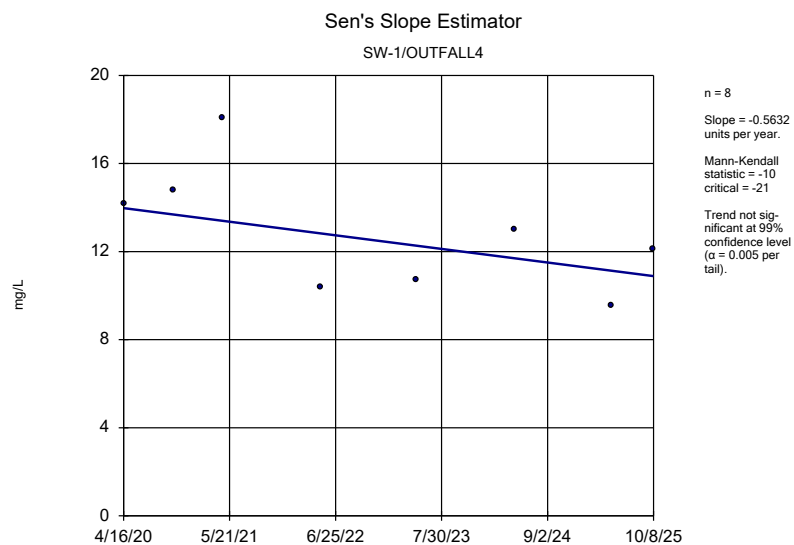
Constituent: Sodium Analysis Run 10/29/2025 4:36 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



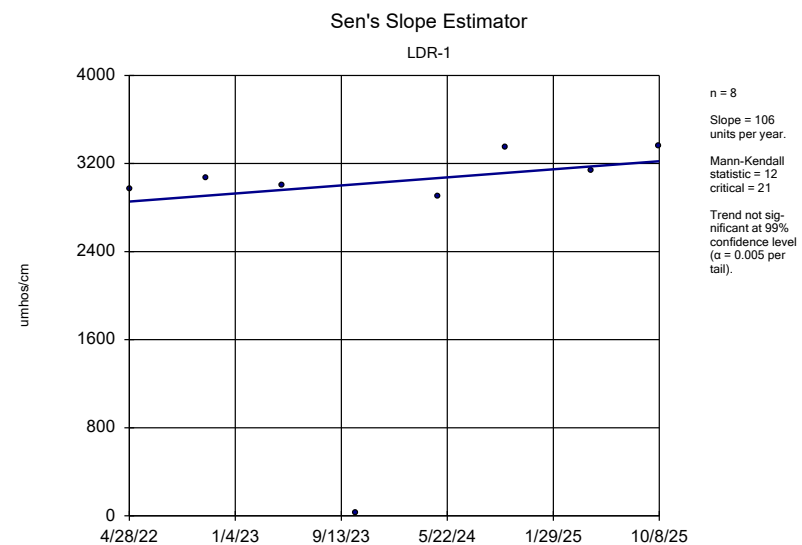
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



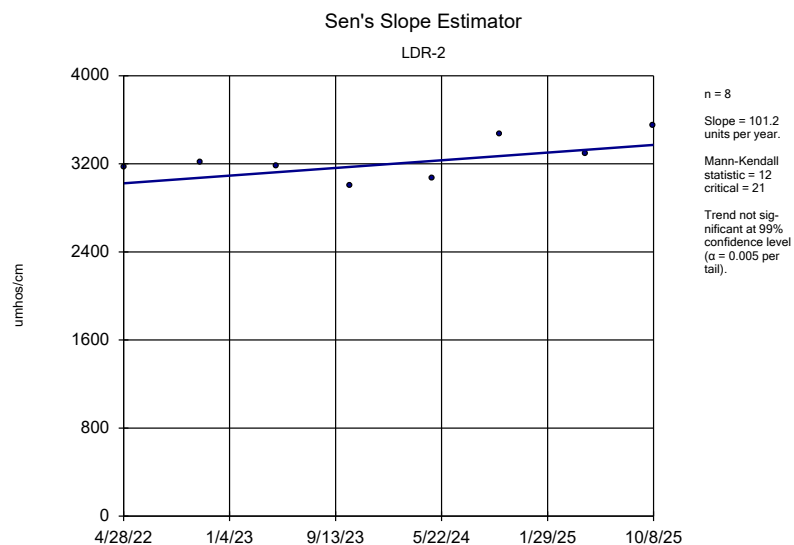
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



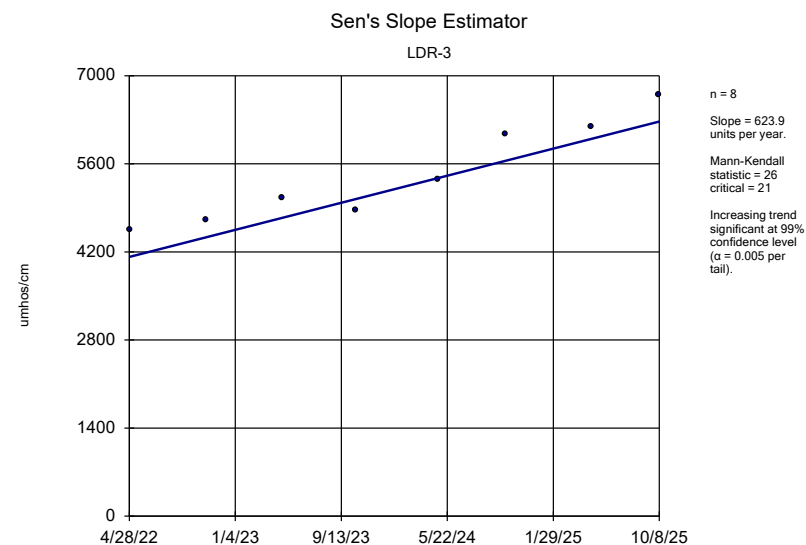
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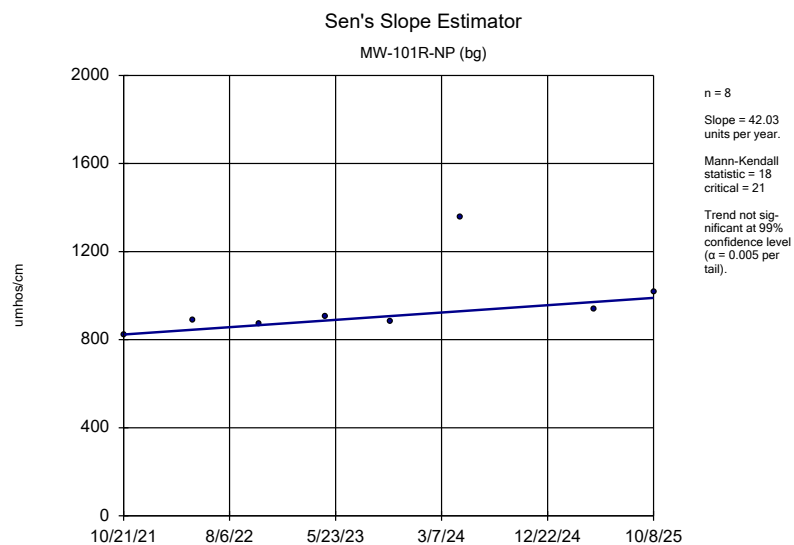
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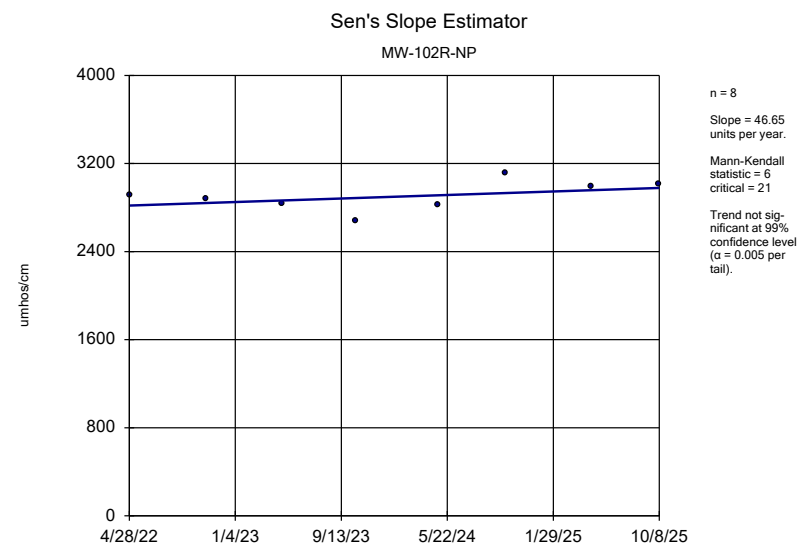
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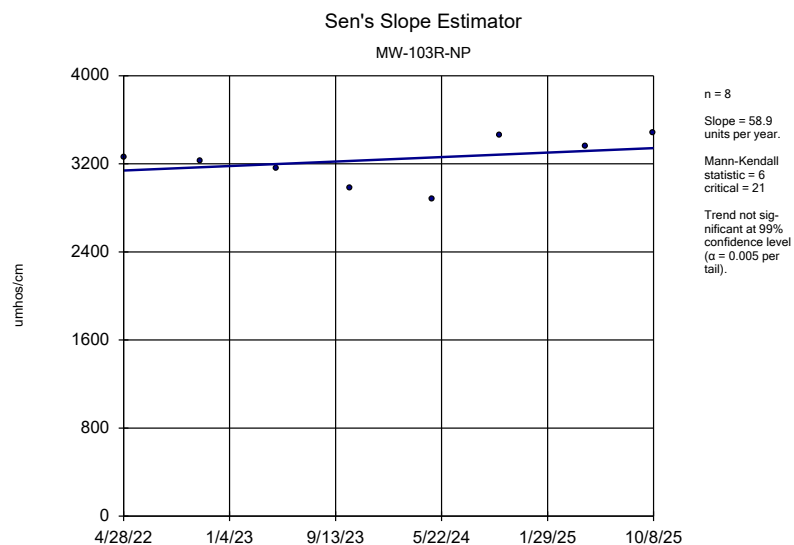
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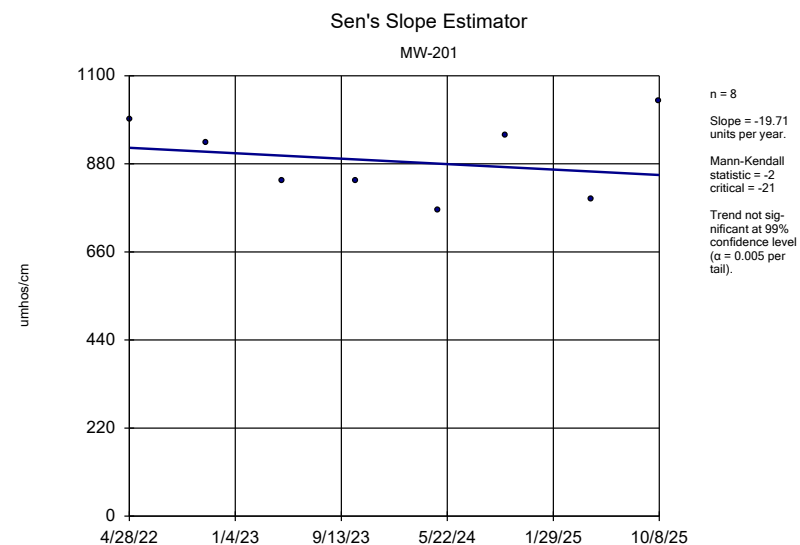
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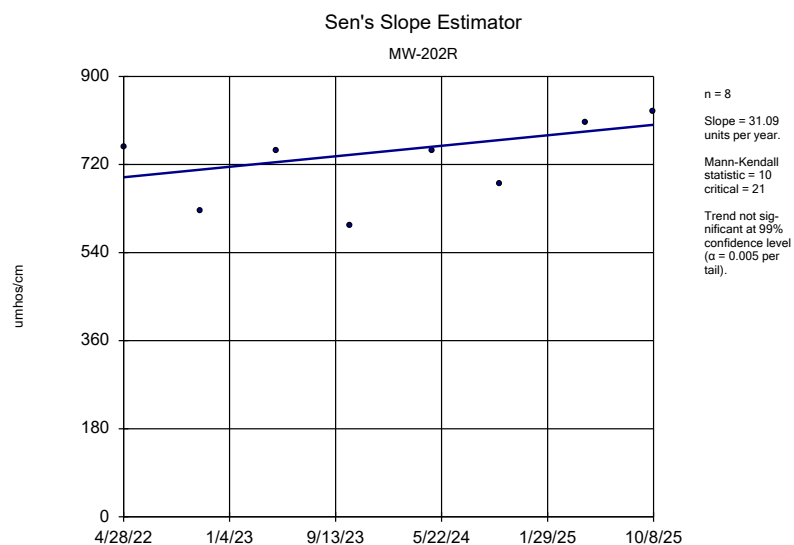
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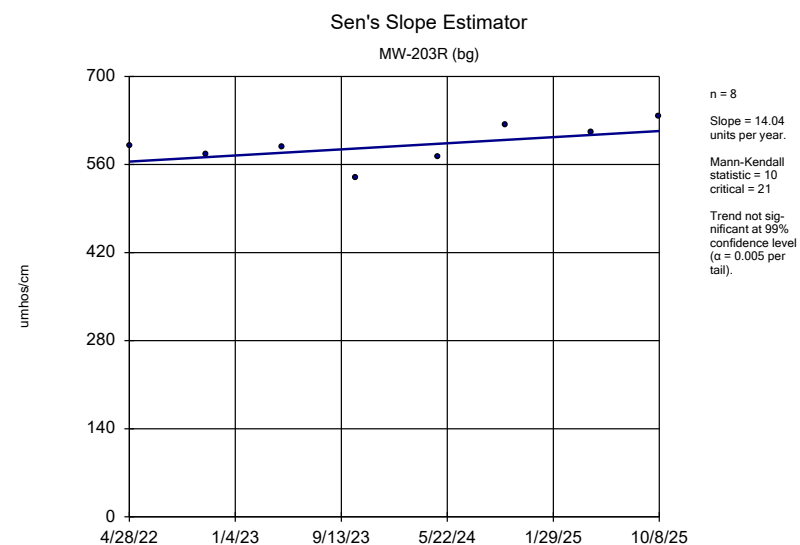
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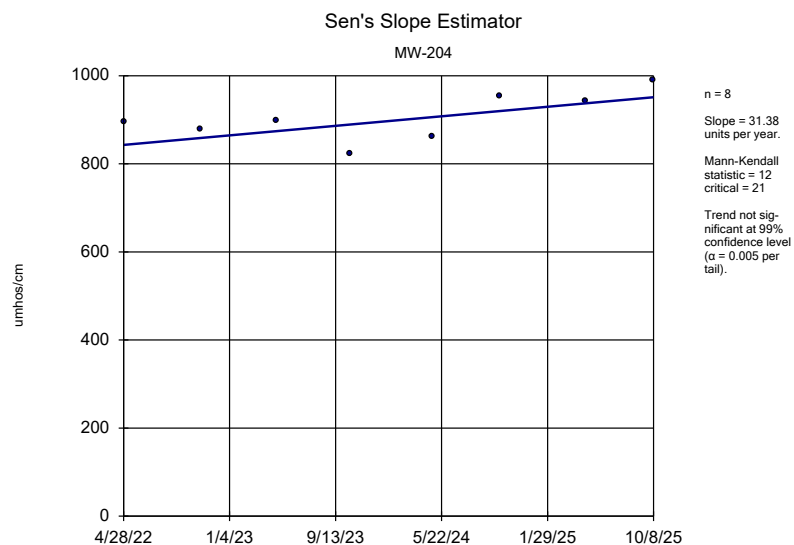
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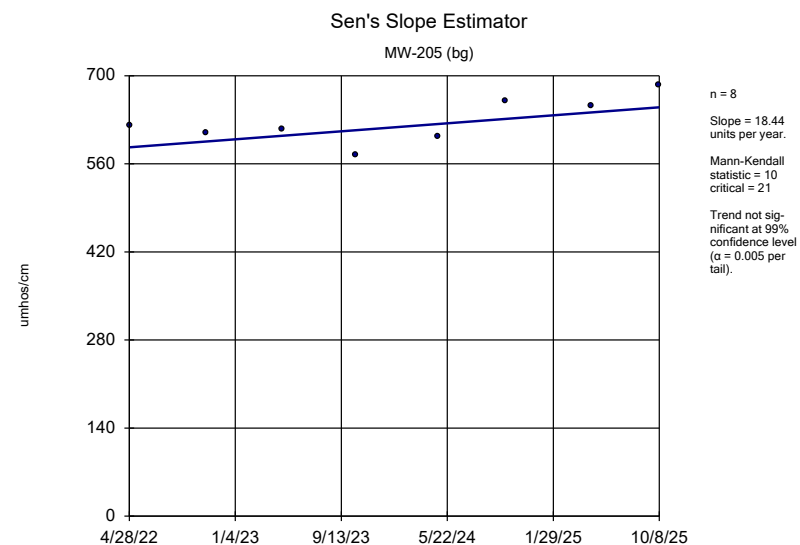
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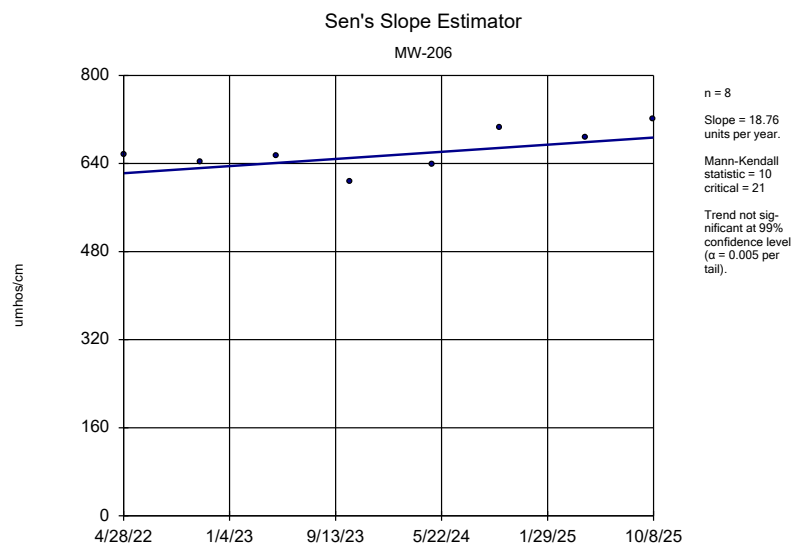
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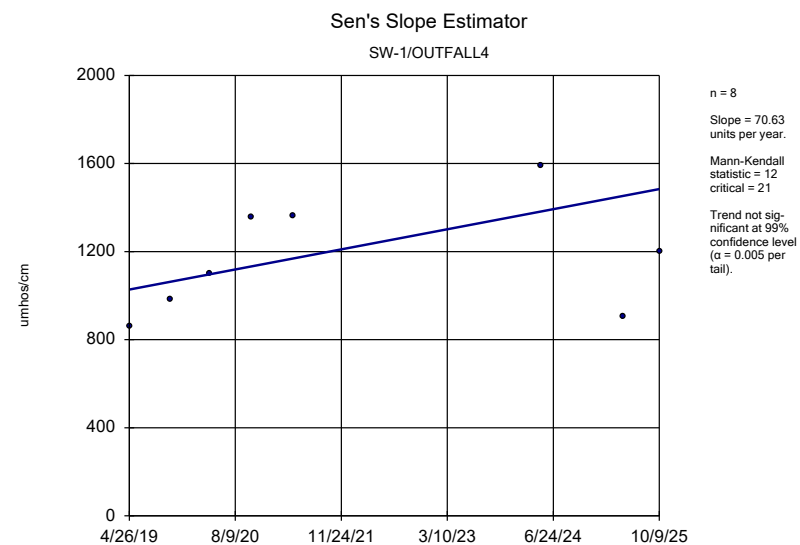
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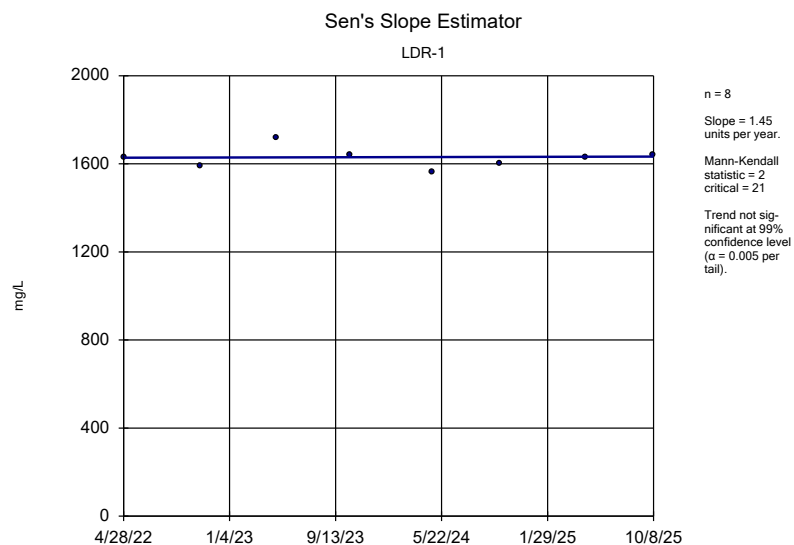
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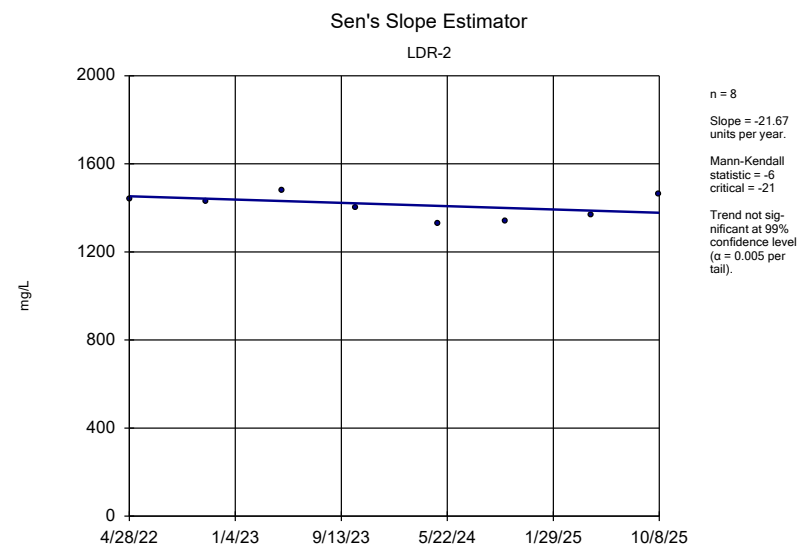
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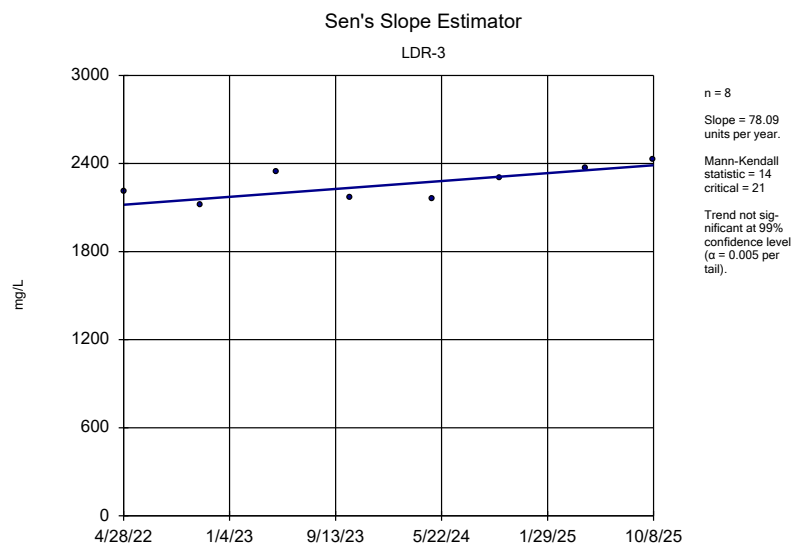
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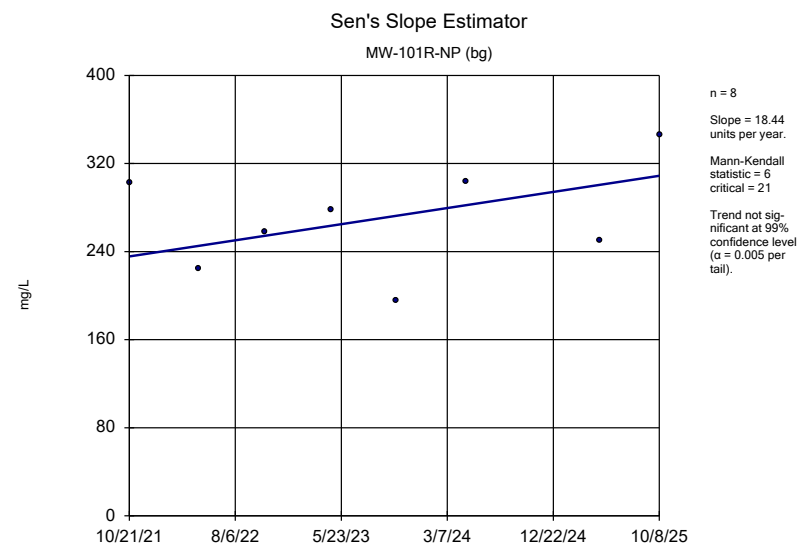
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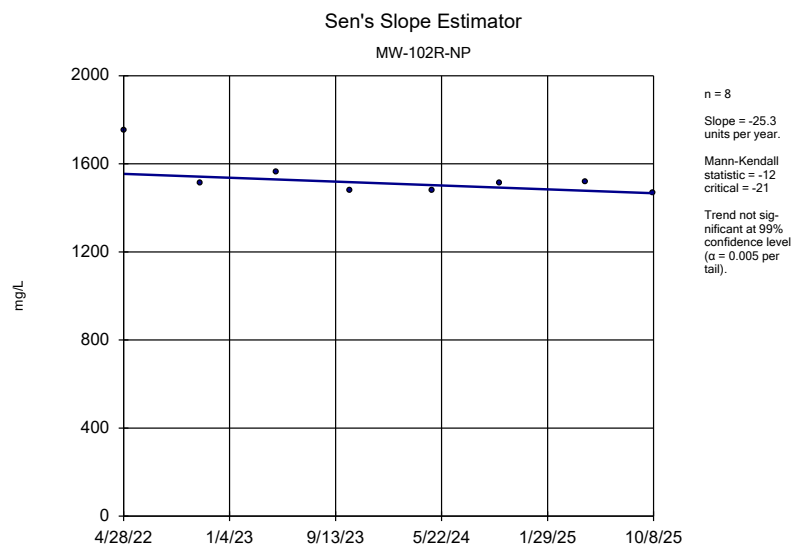
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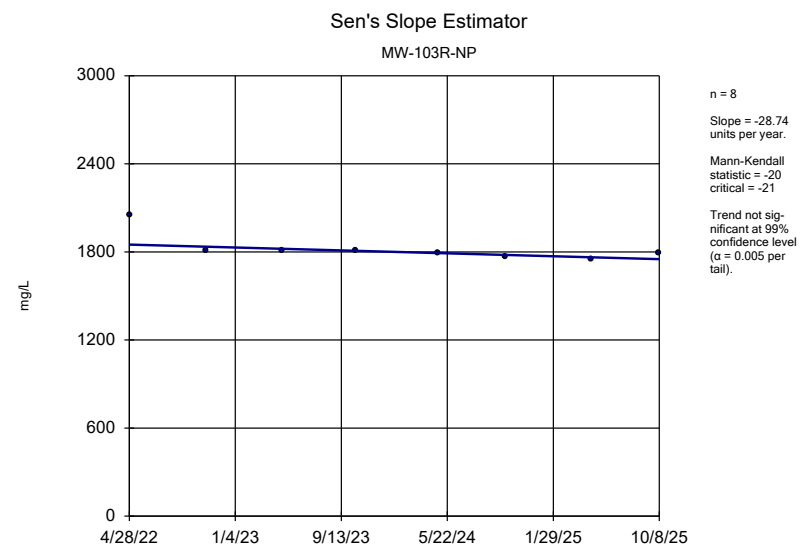
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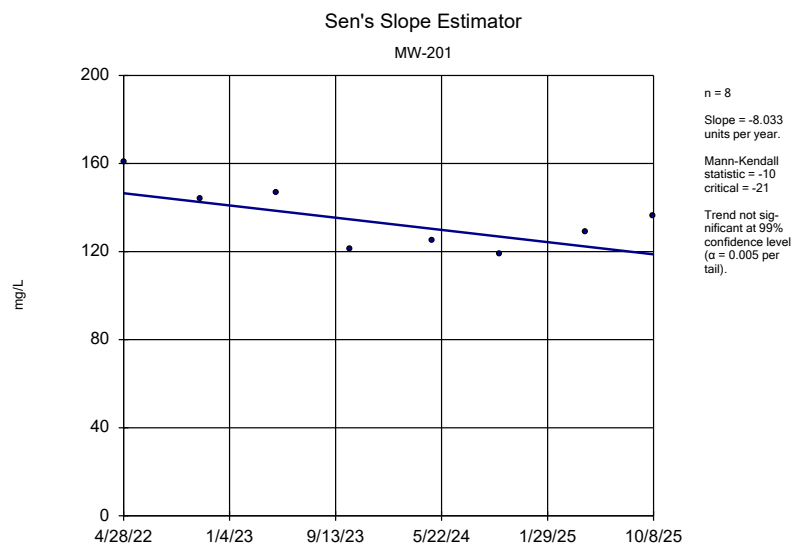
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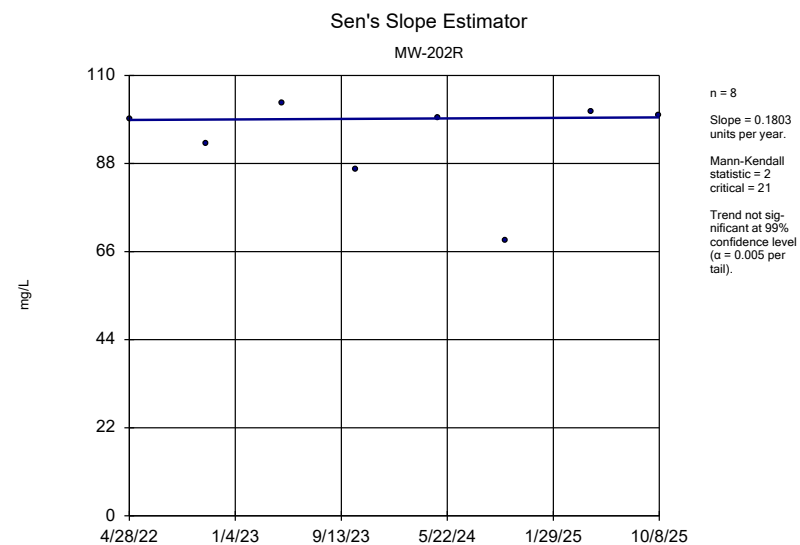
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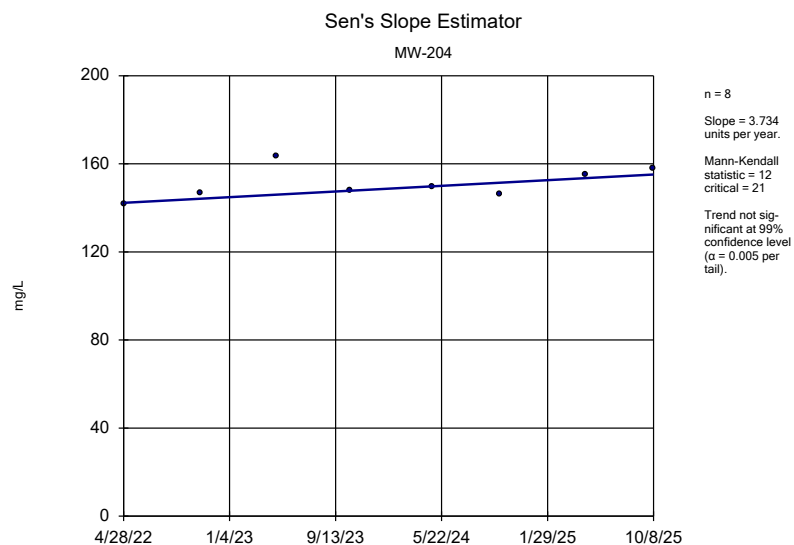
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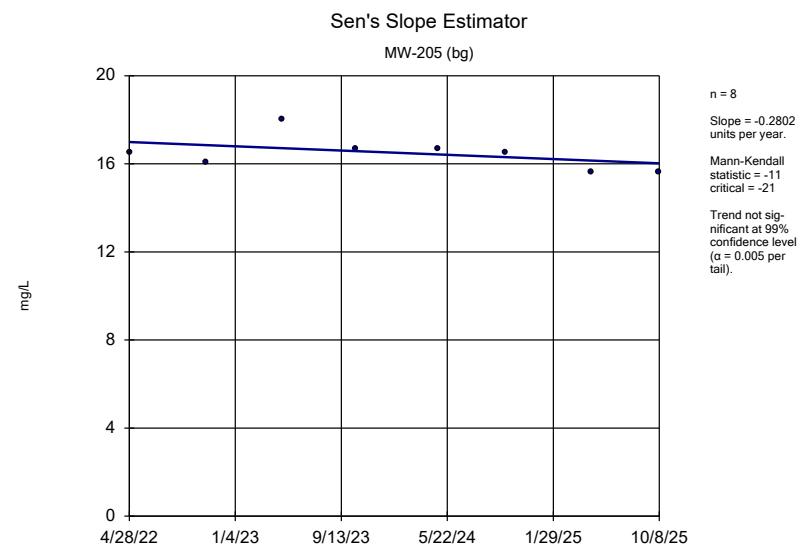
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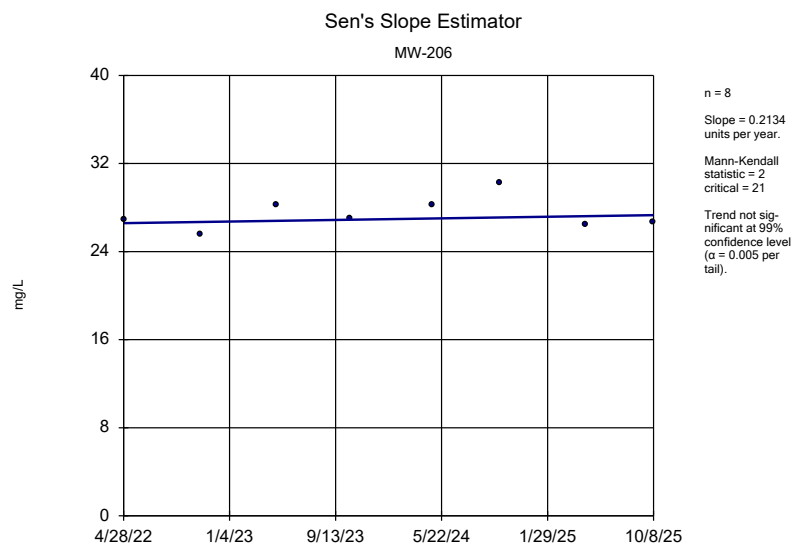
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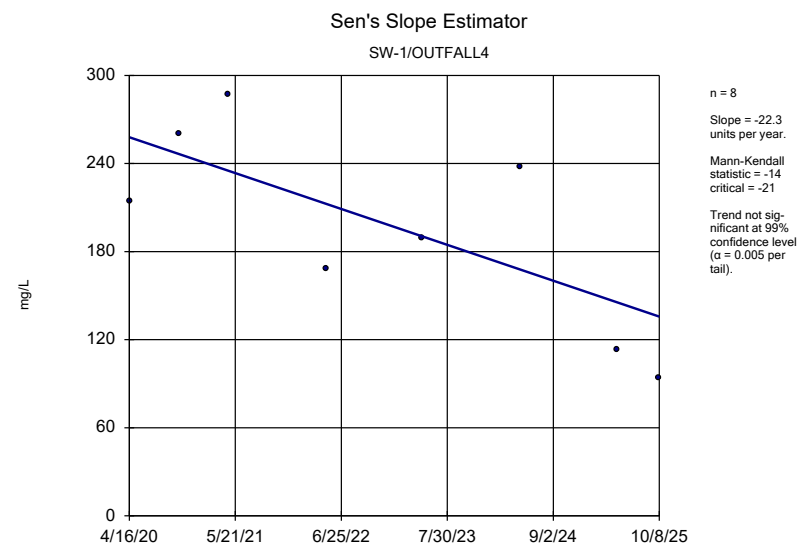
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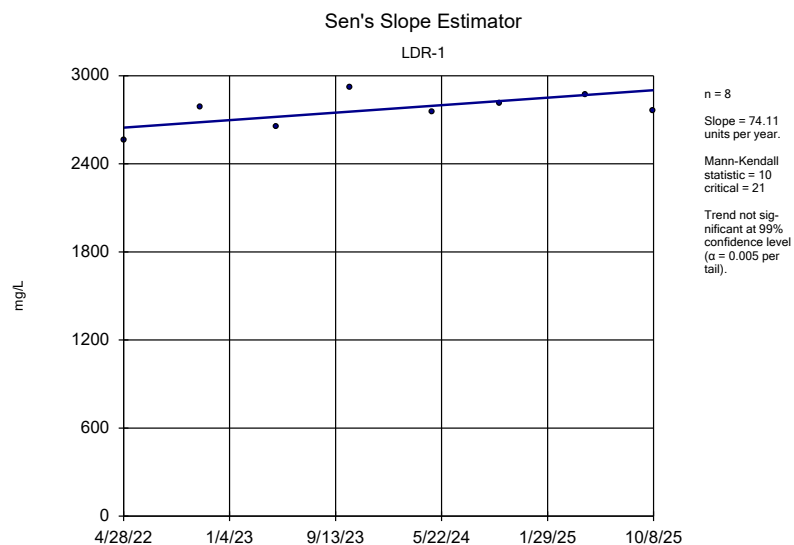
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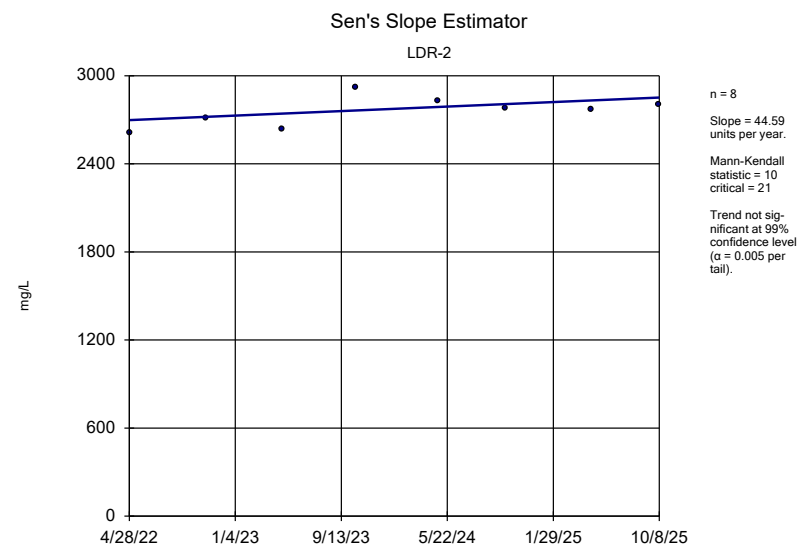
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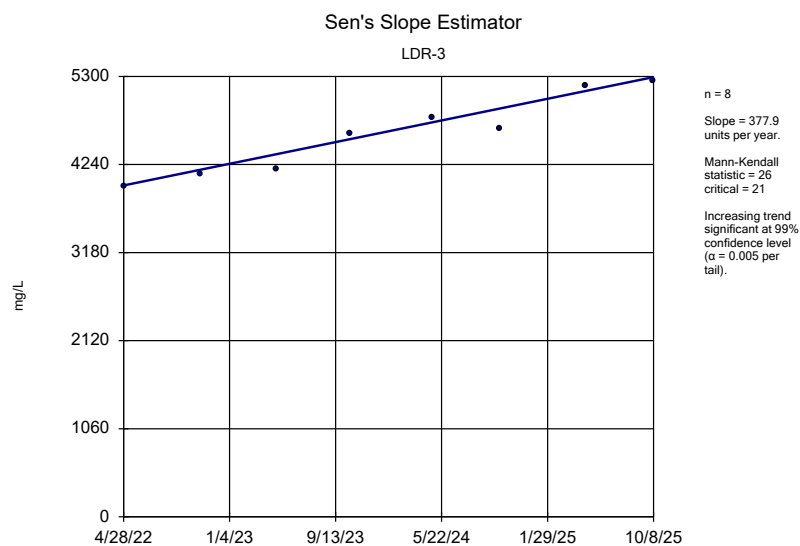
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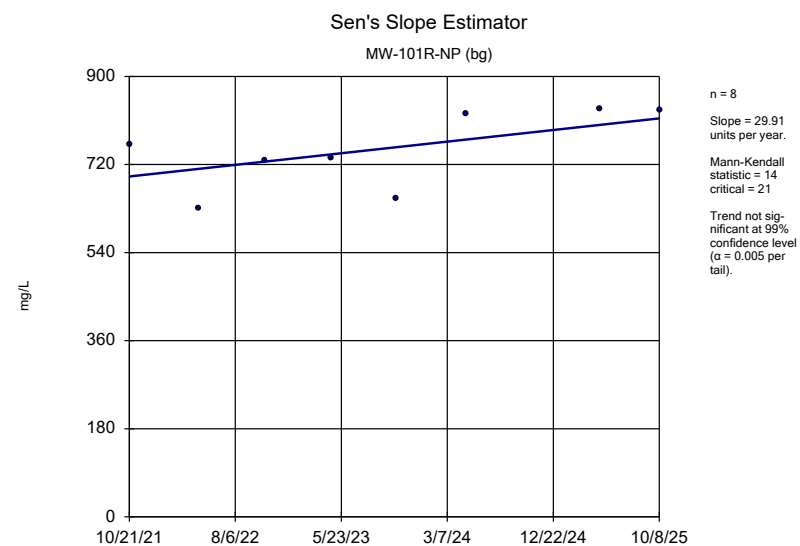
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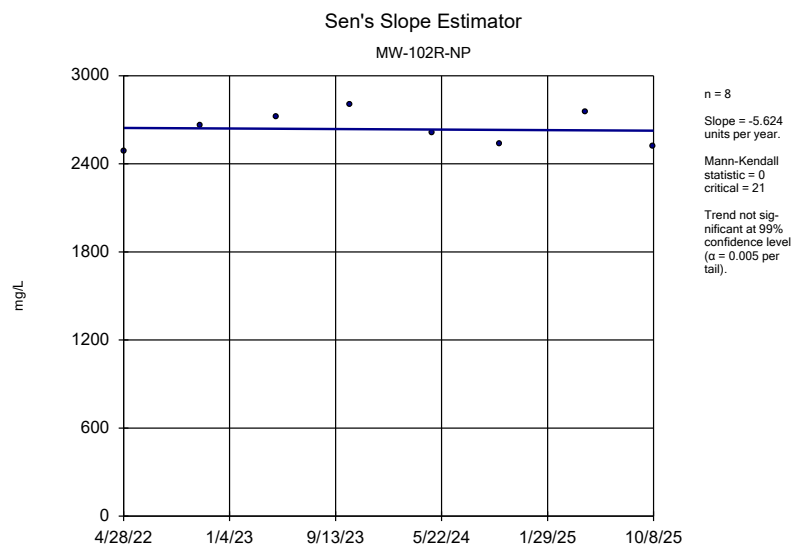
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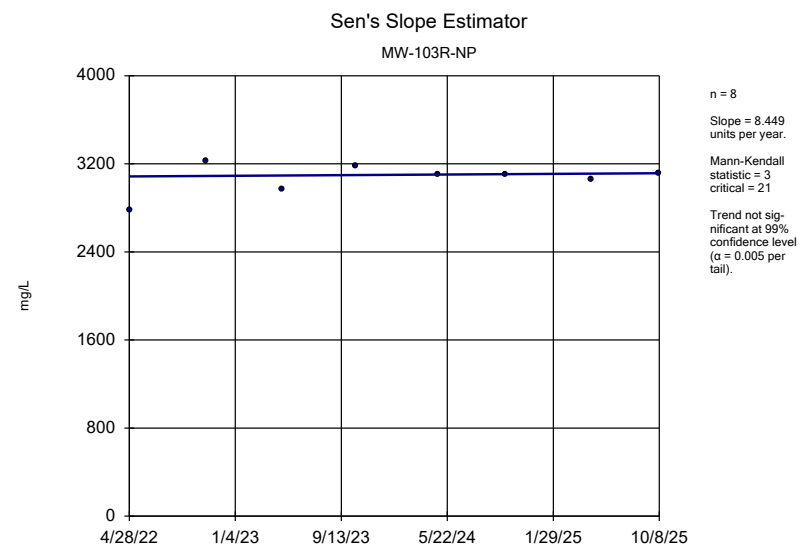
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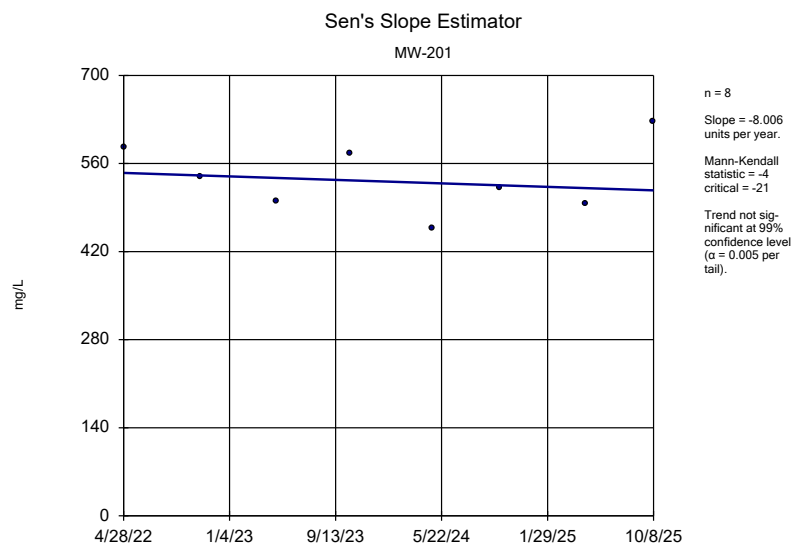
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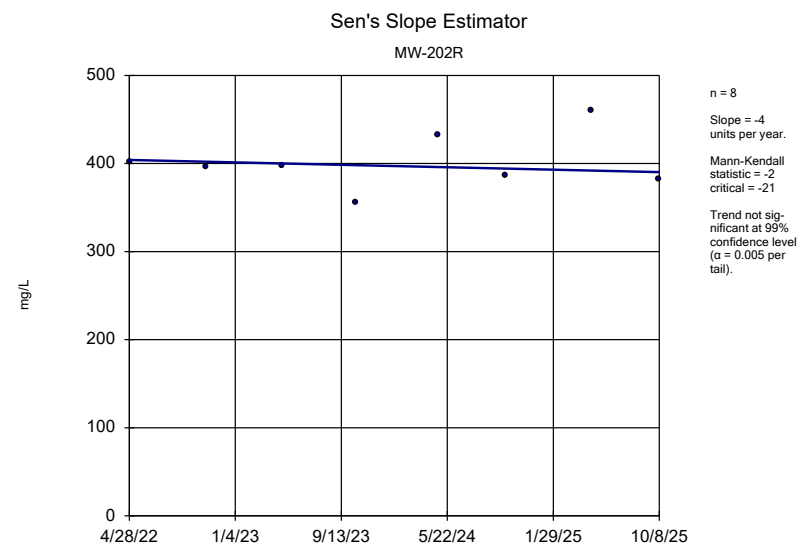
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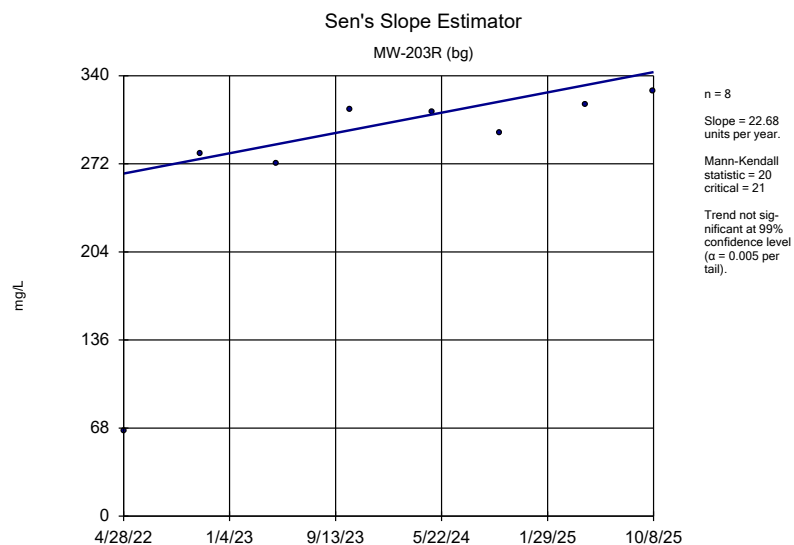
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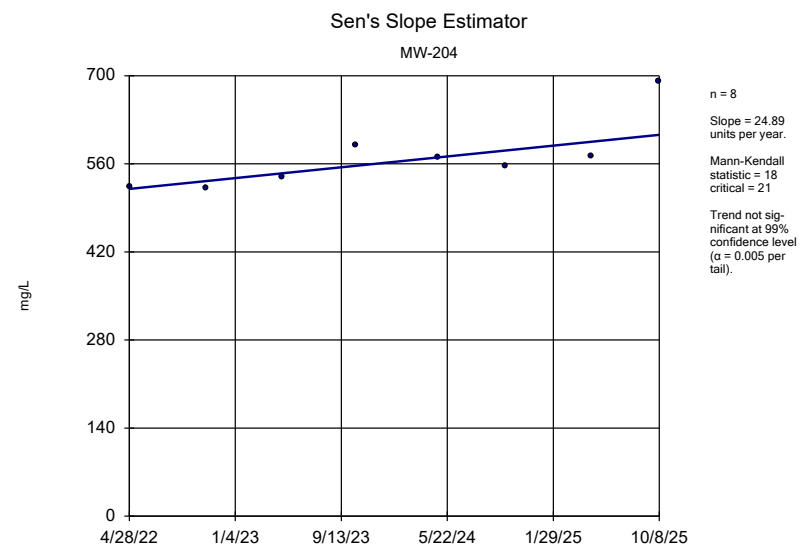
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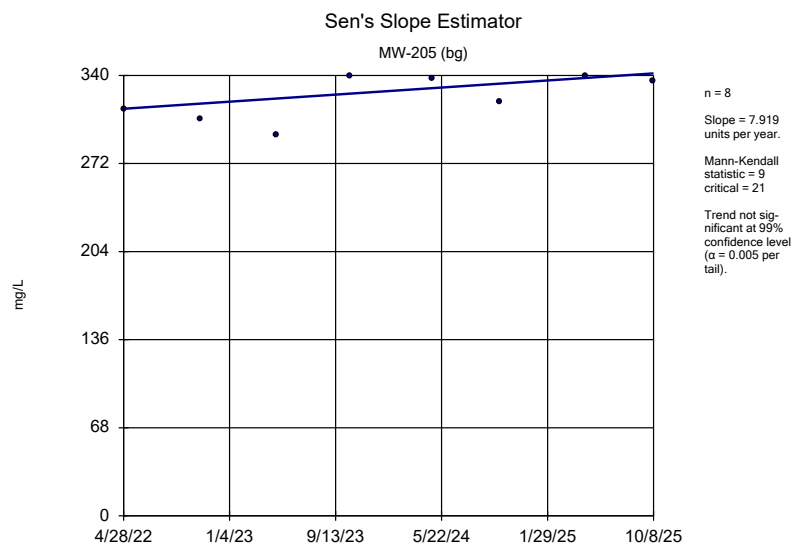
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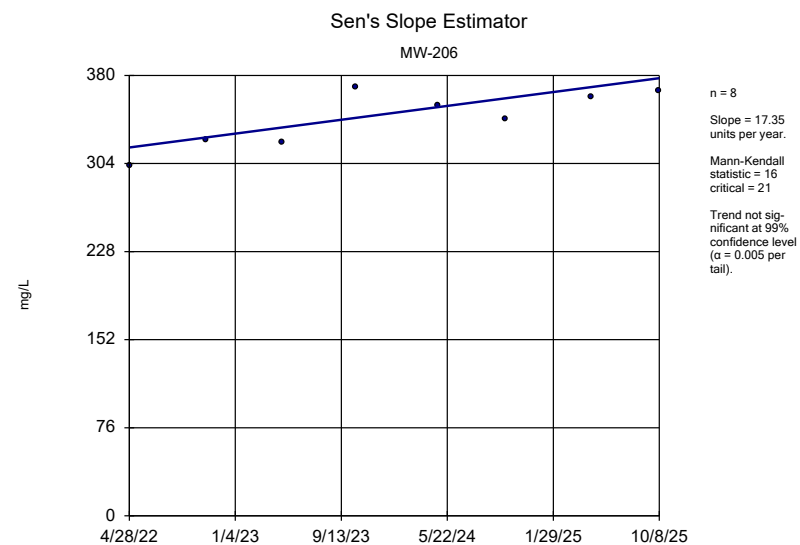
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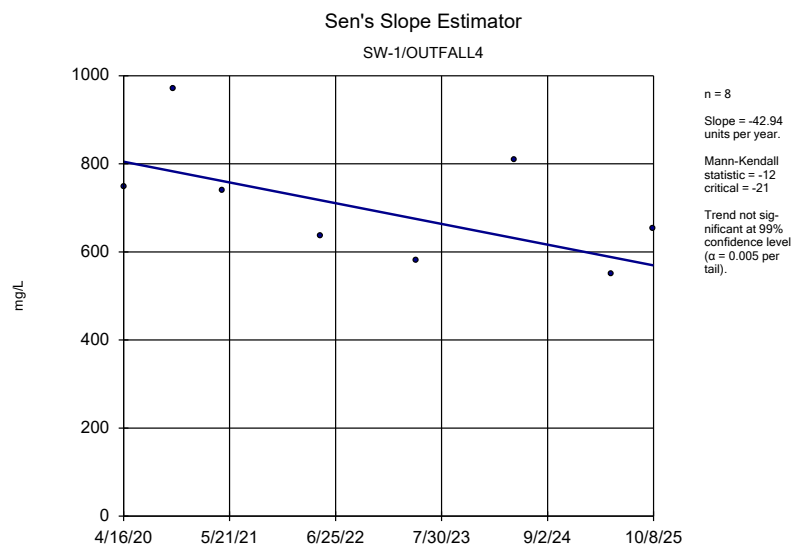
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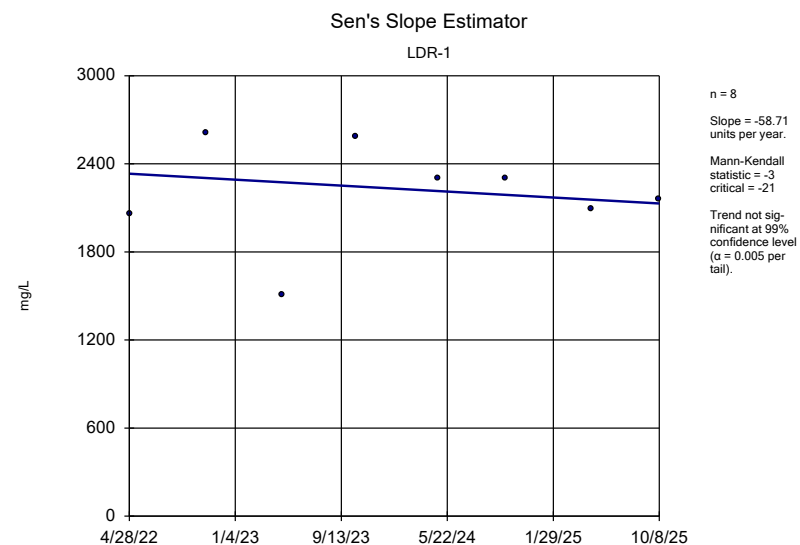
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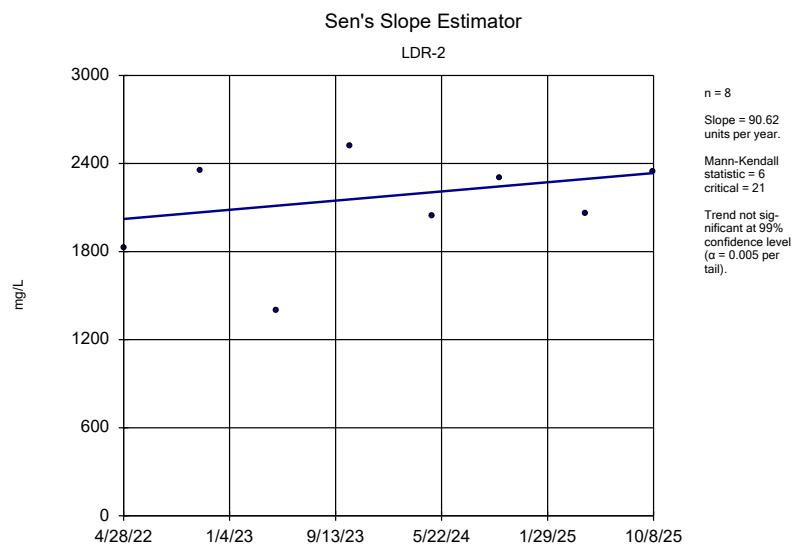
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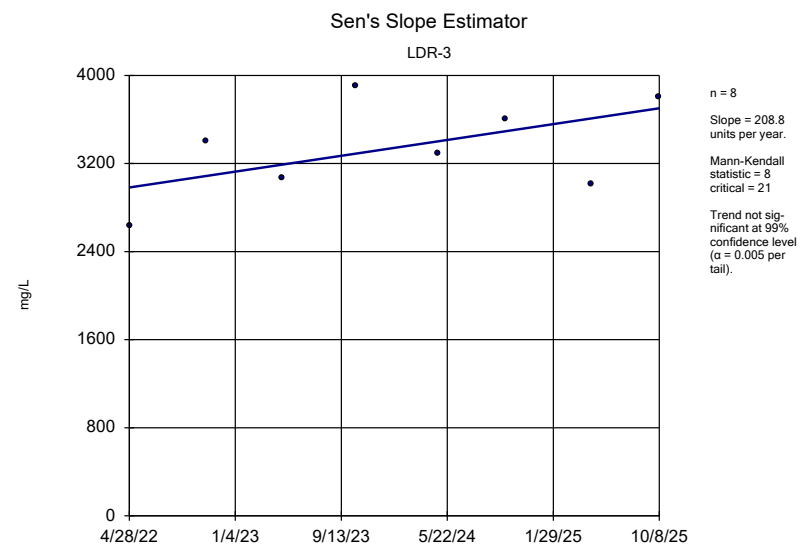
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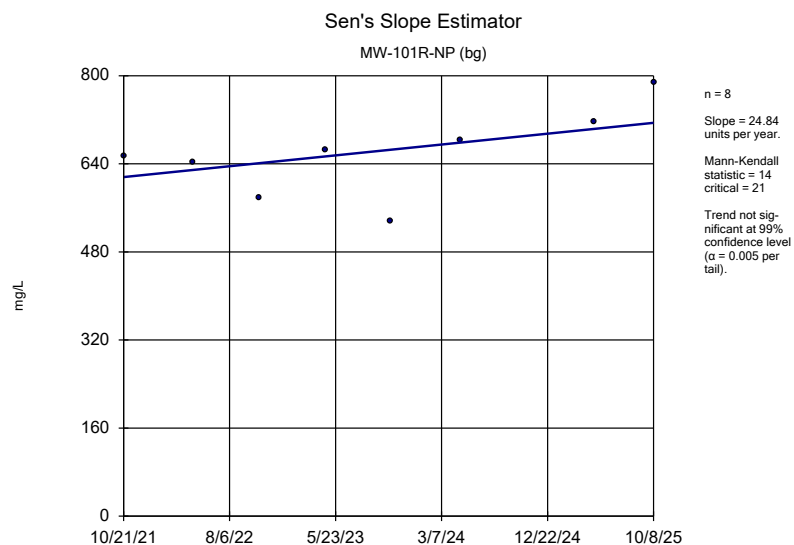
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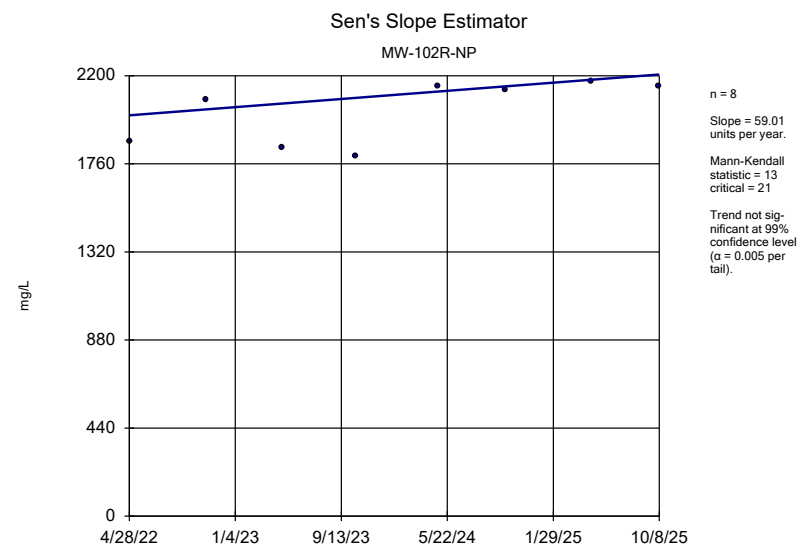
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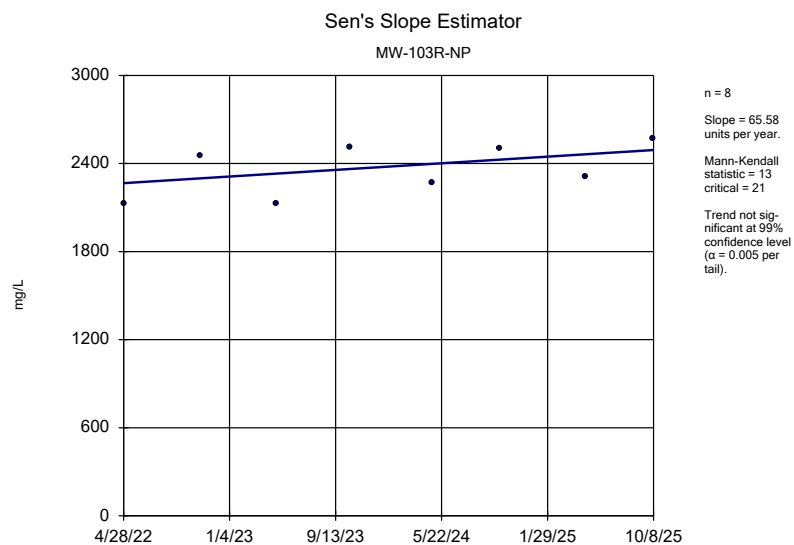
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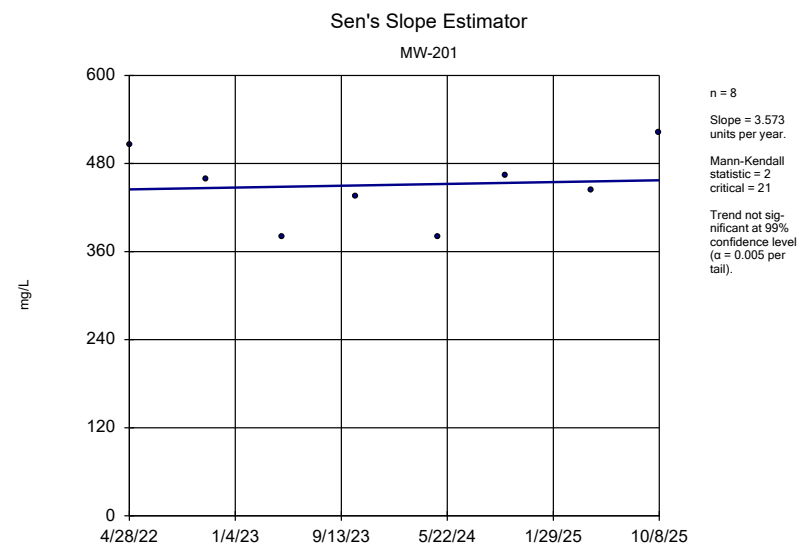
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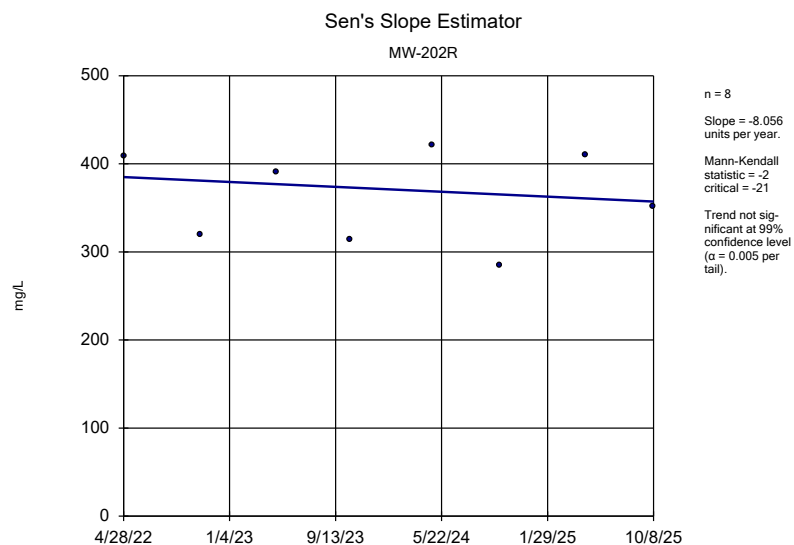
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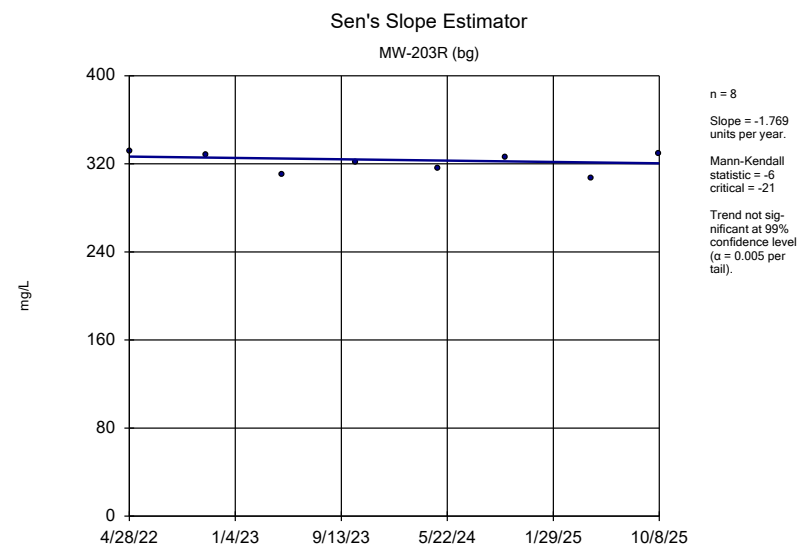
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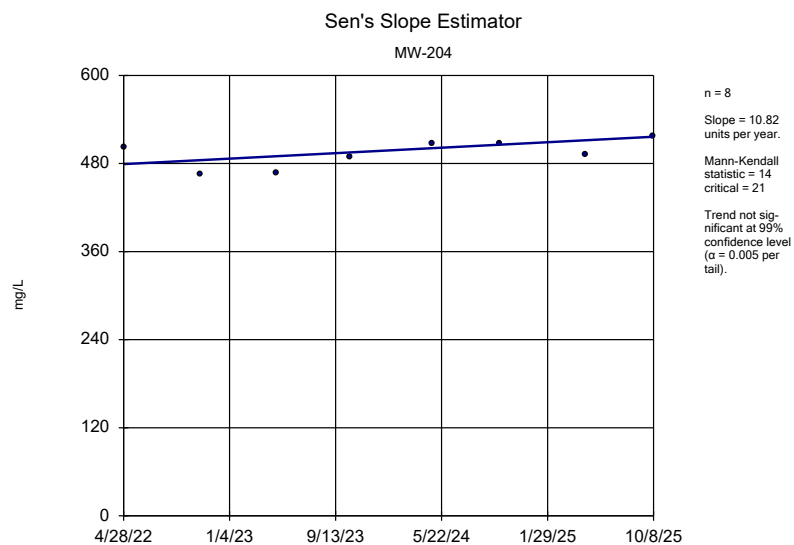
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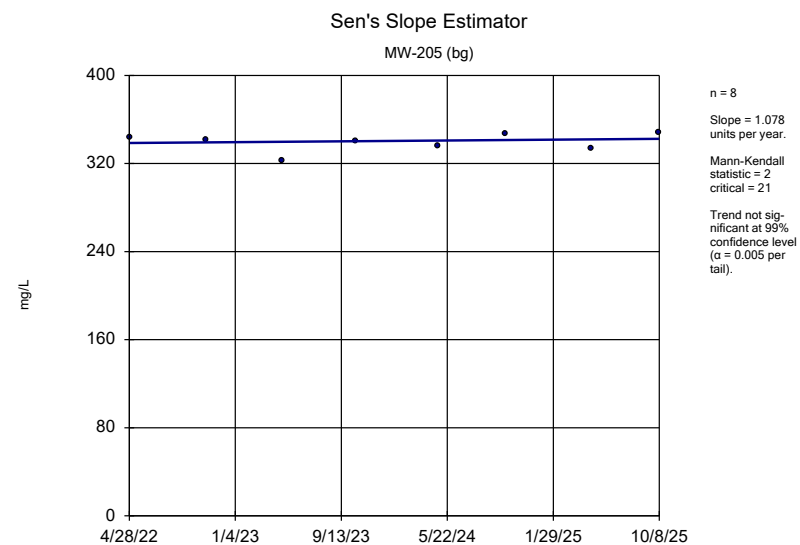
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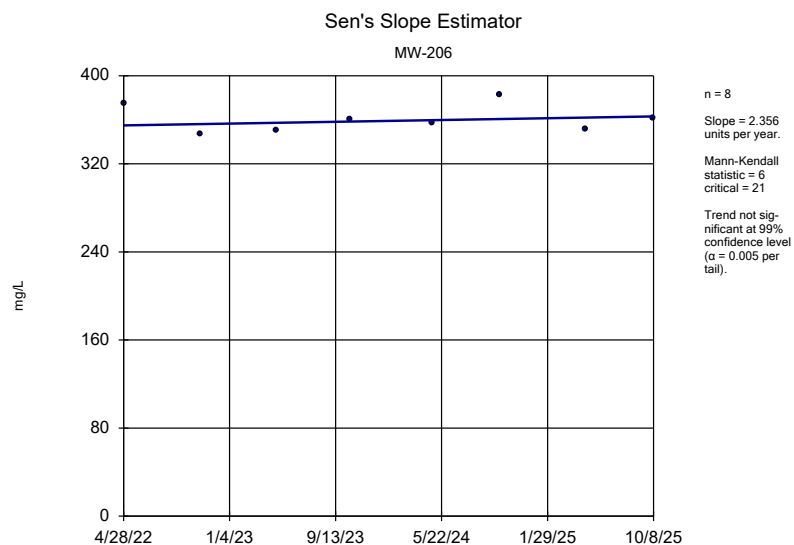
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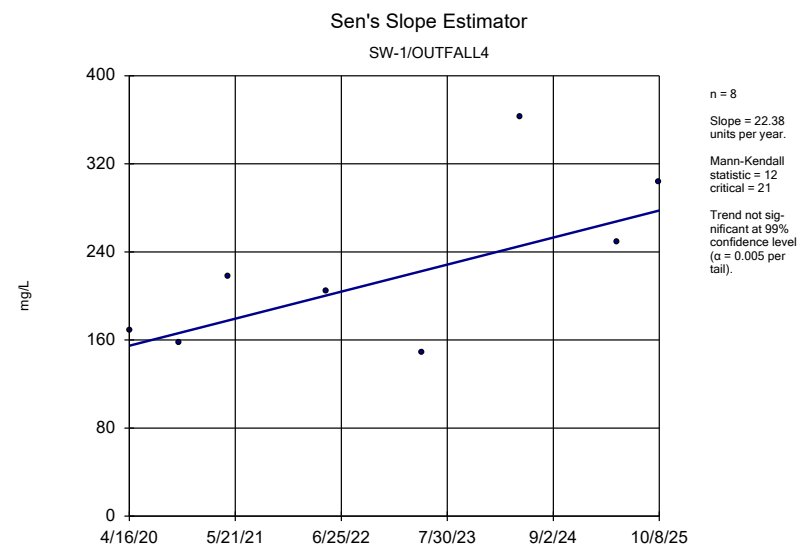
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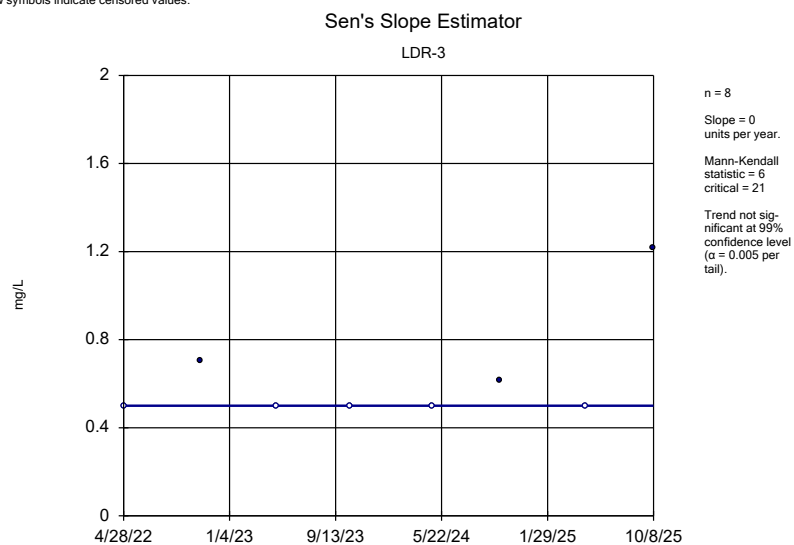
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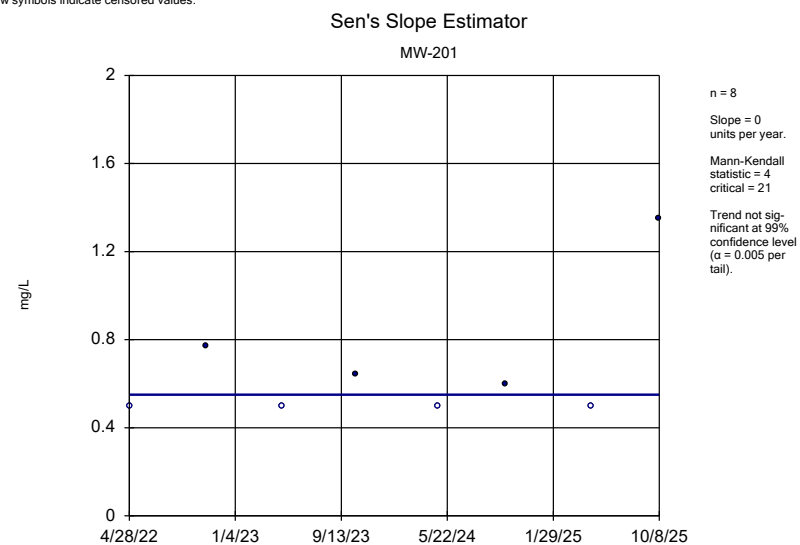
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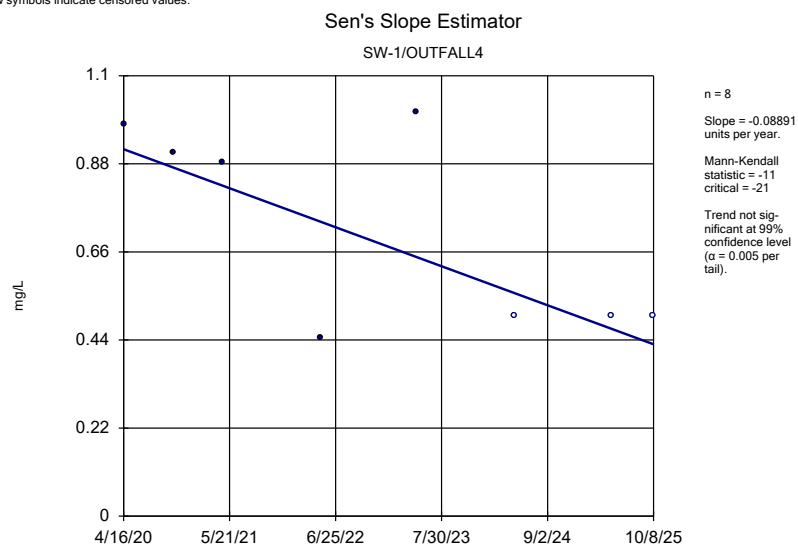
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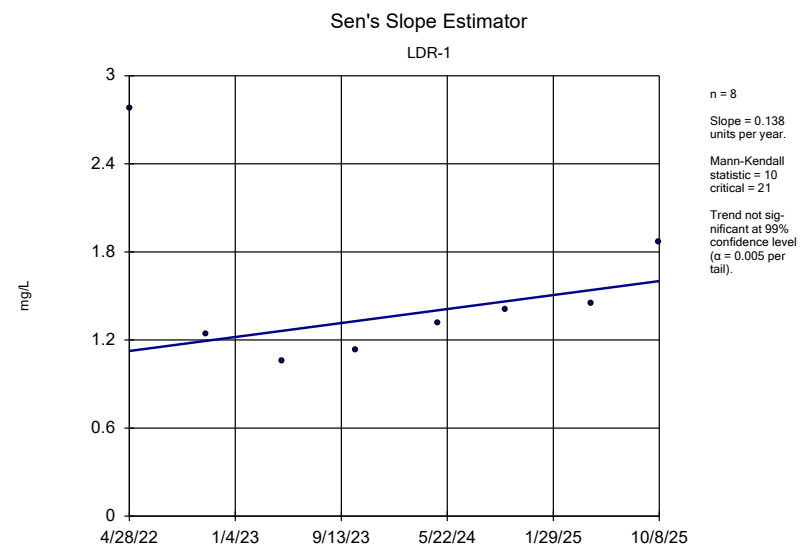
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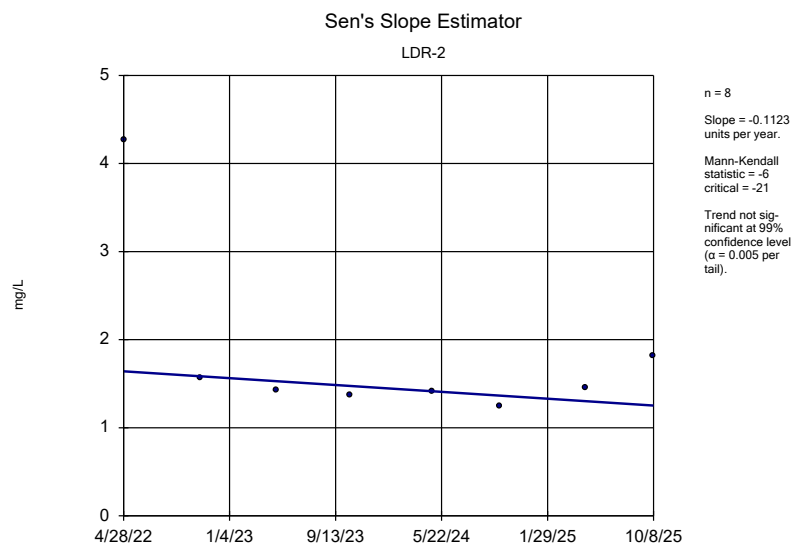
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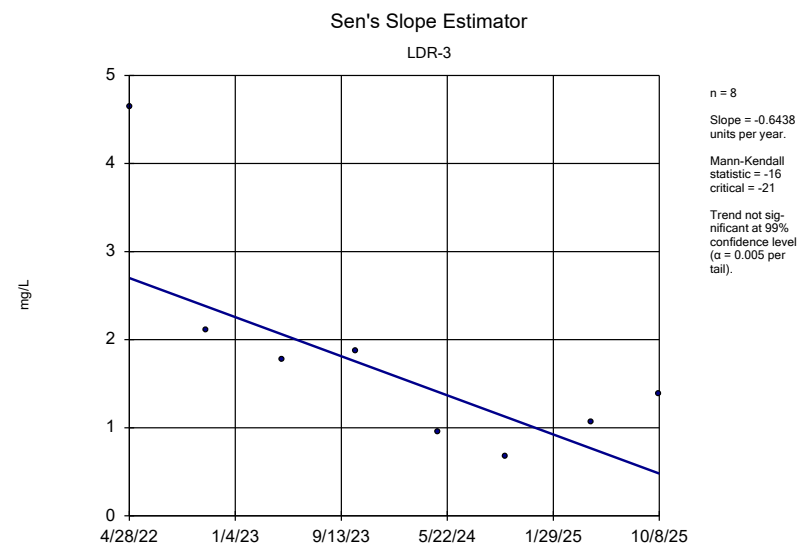
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



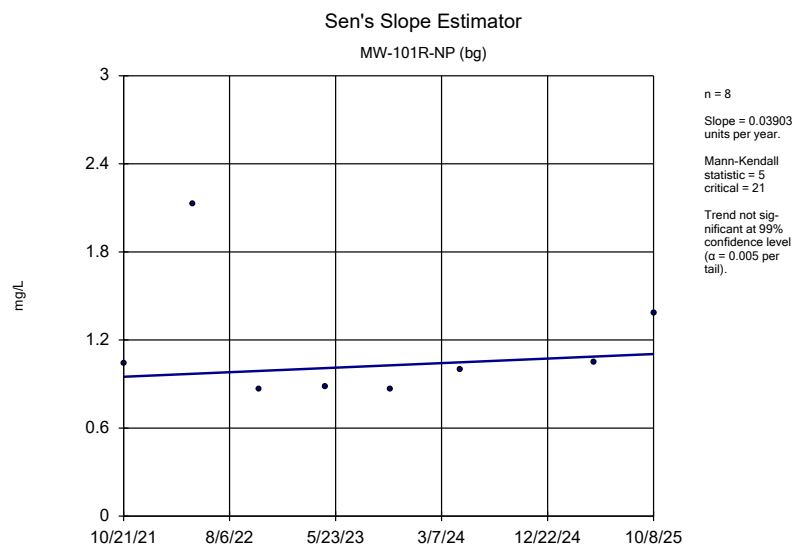
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



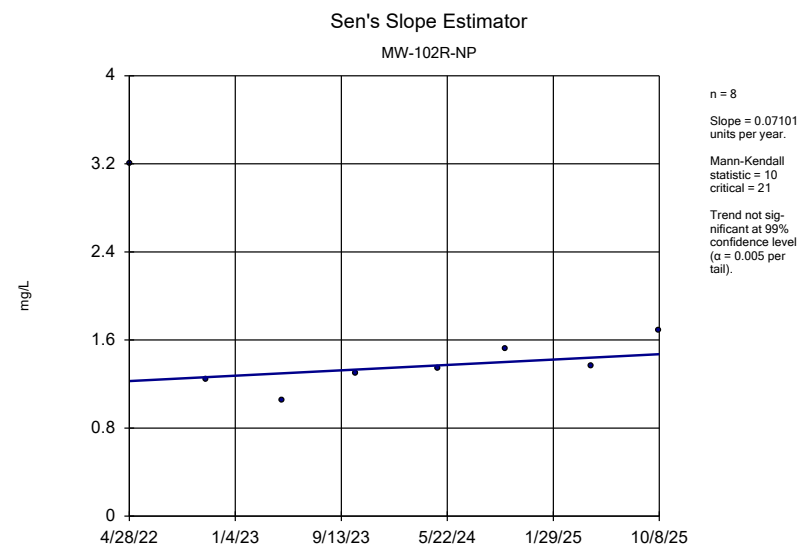
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



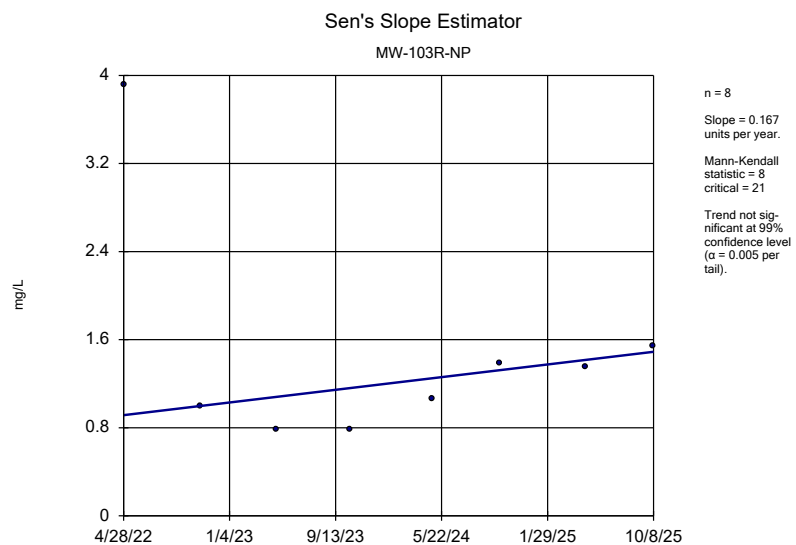
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



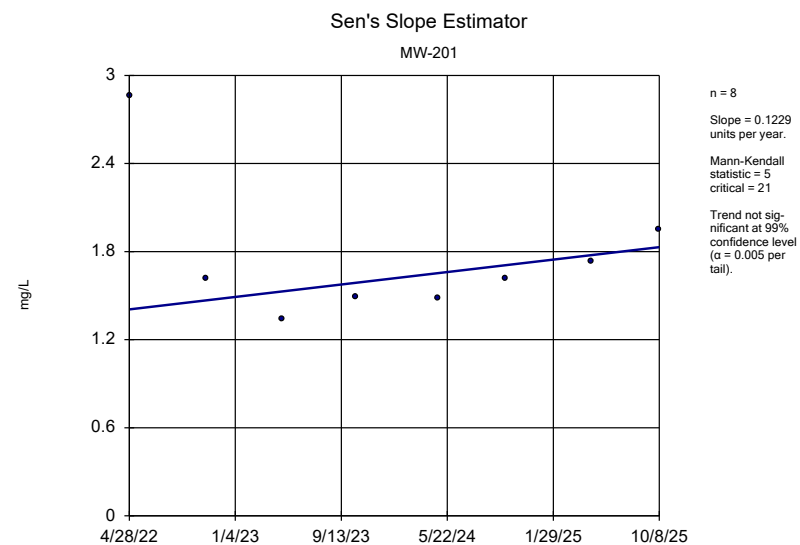
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



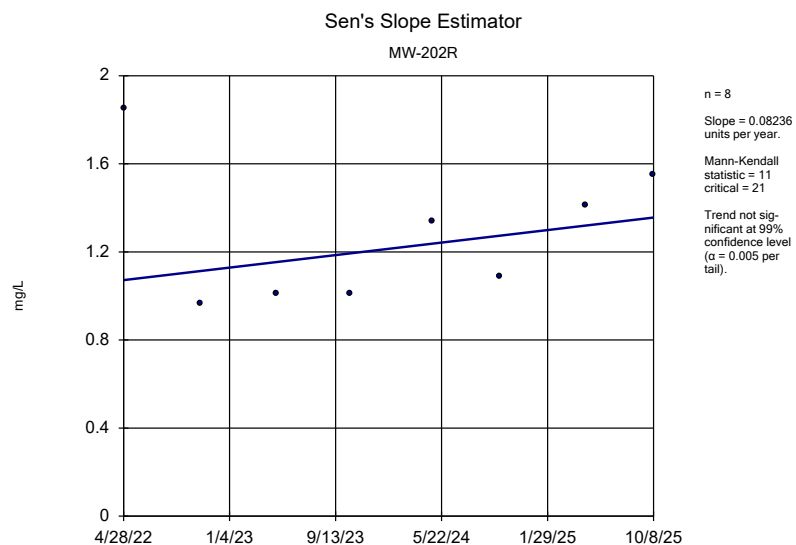
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



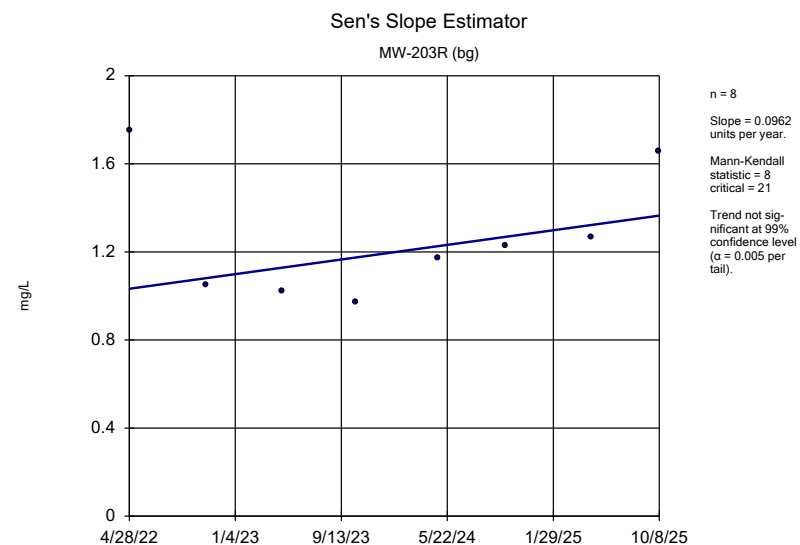
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



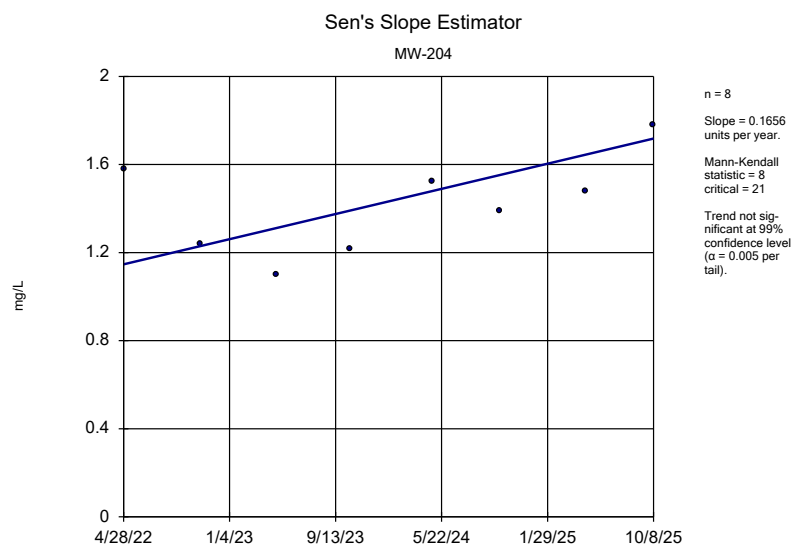
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



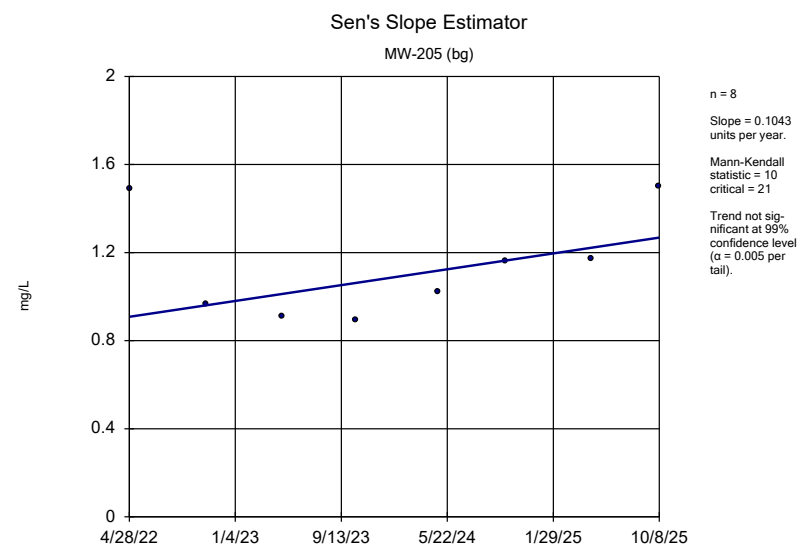
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



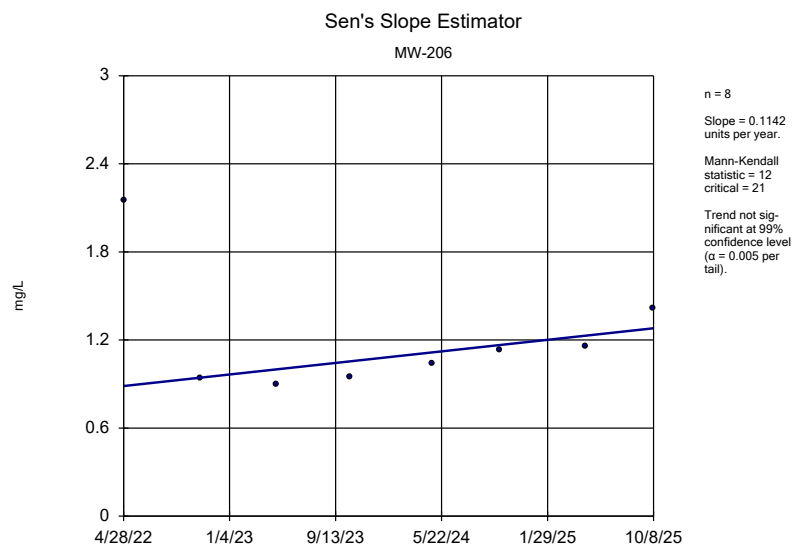
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



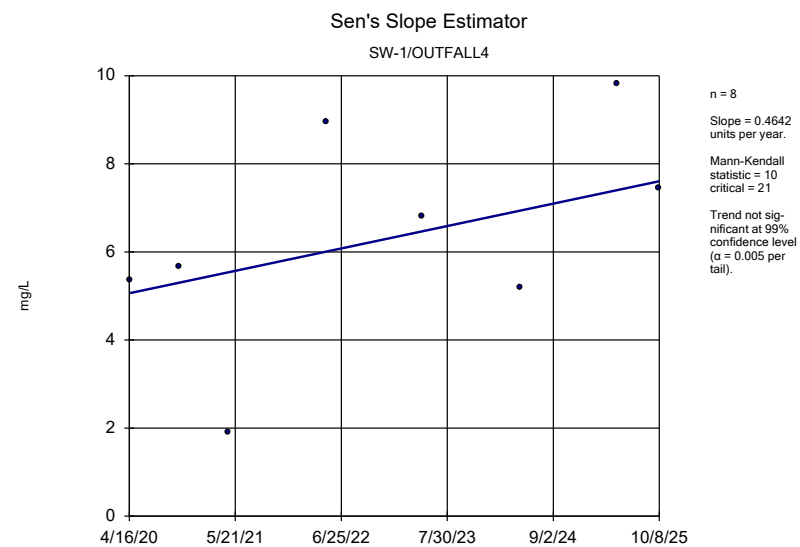
Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Constituent: Total Organic Carbon Analysis Run 10/29/2025 4:37 PM View: 2025_AWQR-Mann_Kendall
CKD Monofill Client: Lehigh Cement Company Data: LCMNT_2025_AWQR_MK_AWRS



Attachment B

Control Limits

Clay Spring Control Limit

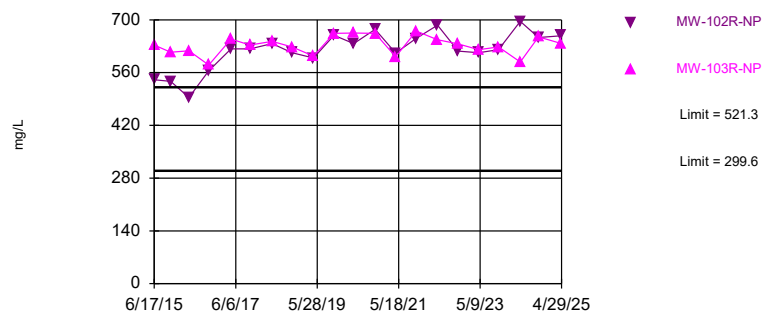
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:52 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>
Alkalinity, Total [CaCO3] (mg/L)	MW-102R-NP	521.3	299.6	4/29/2025	658	Yes	16	MW-101R-NP	410.4	55.42	0
Alkalinity, Total [CaCO3] (mg/L)	MW-103R-NP	521.3	299.6	4/29/2025	637	Yes	16	MW-101R-NP	410.4	55.42	0
Bicarbonate (mg/L)	MW-102R-NP	532.3	n/a	4/29/2025	658	Yes	9	MW-101R-NP	399.9	66.21	0
Bicarbonate (mg/L)	MW-103R-NP	532.3	n/a	4/29/2025	637	Yes	9	MW-101R-NP	399.9	66.21	0
Calcium (mg/L)	MW-102R-NP	225.7	n/a	4/29/2025	445	Yes	16	MW-101R-NP	150.8	37.45	0
Calcium (mg/L)	MW-103R-NP	225.7	n/a	4/29/2025	462	Yes	16	MW-101R-NP	150.8	37.45	0
Chloride (mg/L)	MW-102R-NP	14.58	n/a	4/29/2025	5.71	No	34	MW-101R-NP	5.656	4.461	17.65
Chloride (mg/L)	MW-103R-NP	14.58	n/a	4/29/2025	19.2	Yes	34	MW-101R-NP	5.656	4.461	17.65
Magnesium (mg/L)	MW-102R-NP	127.3	n/a	4/29/2025	256	Yes	16	MW-101R-NP	82.03	22.63	0
Magnesium (mg/L)	MW-103R-NP	127.3	n/a	4/29/2025	281	Yes	16	MW-101R-NP	82.03	22.63	0
Nitrate/Nitrite as N (mg/L)	MW-102R-NP	0.1783	n/a	4/29/2025	0.128	No	16	MW-101R-NP	0.08172	0.04828	50
Nitrate/Nitrite as N (mg/L)	MW-103R-NP	0.1783	n/a	4/29/2025	0.268	Yes	16	MW-101R-NP	0.08172	0.04828	50
pH (S.U.)	MW-102R-NP	8.499	6.284	4/29/2025	6.68	No	25	MW-101R-NP	7.391	0.5537	0
pH (S.U.)	MW-103R-NP	8.499	6.284	4/29/2025	6.7	No	25	MW-101R-NP	7.391	0.5537	0
Potassium (mg/L)	MW-102R-NP	10.98	n/a	4/29/2025	12.6	Yes	16	MW-101R-NP	8.613	1.184	0
Potassium (mg/L)	MW-103R-NP	10.98	n/a	4/29/2025	29.2	Yes	16	MW-101R-NP	8.613	1.184	0
Sodium (mg/L)	MW-102R-NP	62.91	n/a	4/29/2025	50.3	No	16	MW-101R-NP	47.54	7.687	0
Sodium (mg/L)	MW-103R-NP	62.91	n/a	4/29/2025	57.2	No	16	MW-101R-NP	47.54	7.687	0
Specific Conductance (umhos/cm)	MW-102R-NP	2736	n/a	4/29/2025	2996	Yes	26	MW-101R-NP	1464	636	0
Specific Conductance (umhos/cm)	MW-103R-NP	2736	n/a	4/29/2025	3355	Yes	26	MW-101R-NP	1464	636	0
Sulfate (mg/L)	MW-102R-NP	694.6	n/a	4/29/2025	1520	Yes	16	MW-101R-NP	337.4	178.6	0
Sulfate (mg/L)	MW-103R-NP	694.6	n/a	4/29/2025	1750	Yes	16	MW-101R-NP	337.4	178.6	0
Total Dissolved Solids (mg/L)	MW-102R-NP	2228	n/a	4/29/2025	2750	Yes	32	MW-101R-NP	1221	503.5	0
Total Dissolved Solids (mg/L)	MW-103R-NP	2228	n/a	4/29/2025	3060	Yes	32	MW-101R-NP	1221	503.5	0
Total Hardness (mg/L)	MW-102R-NP	996.8	n/a	4/29/2025	2170	Yes	15	MW-101R-NP	687.5	154.6	0
Total Hardness (mg/L)	MW-103R-NP	996.8	n/a	4/29/2025	2310	Yes	15	MW-101R-NP	687.5	154.6	0
Total Organic Carbon (mg/L)	MW-102R-NP	2.097	n/a	4/29/2025	1.36	No	15	MW-101R-NP	1.111	0.4935	6.667
Total Organic Carbon (mg/L)	MW-103R-NP	2.097	n/a	4/29/2025	1.35	No	15	MW-101R-NP	1.111	0.4935	6.667

Exceeds Limits: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



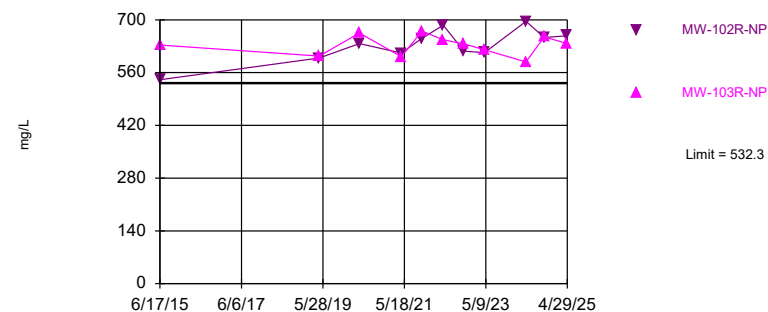
Background Data Summary: Mean=410.4, Std. Dev.=55.42, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Cla
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



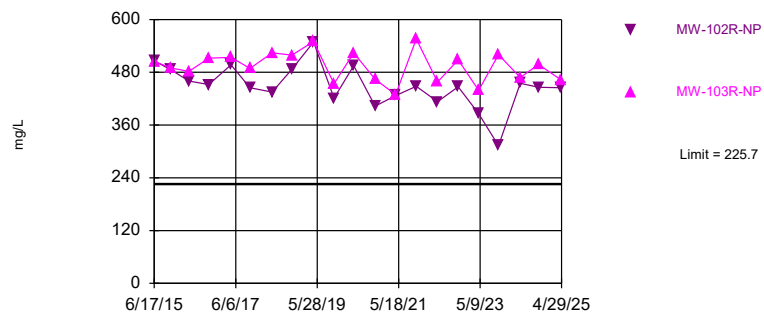
Background Data Summary: Mean=399.9, Std. Dev.=66.21, n=9. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Bicarbonate Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



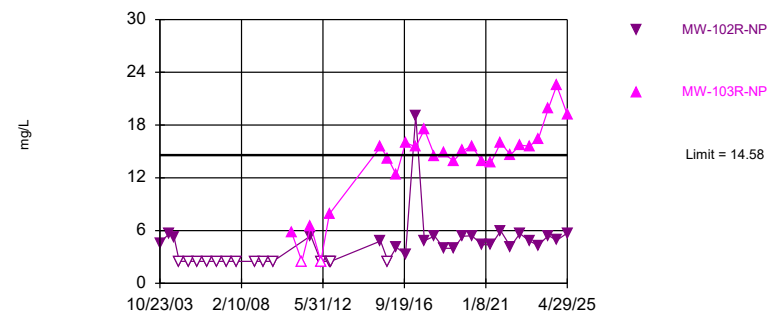
Background Data Summary: Mean=150.8, Std. Dev.=37.45, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Calcium Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-103R-NP

Prediction Limit

Interwell Parametric



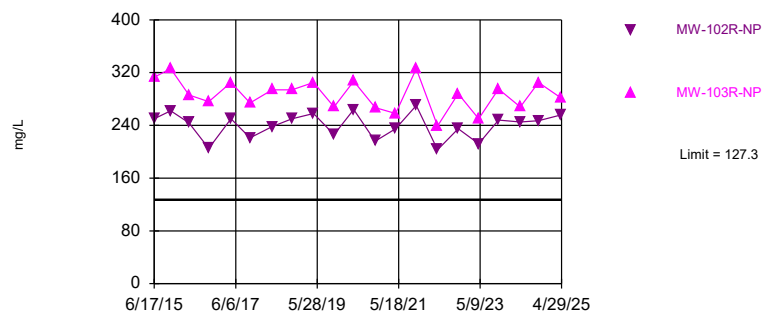
Background Data Summary: Mean=5.656, Std. Dev.=4.461, n=34, 17.65% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



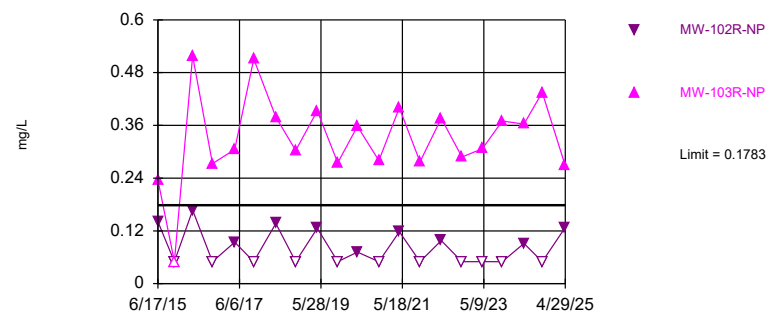
Background Data Summary: Mean=82.03, Std. Dev.=22.63, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-103R-NP

Prediction Limit

Interwell Parametric



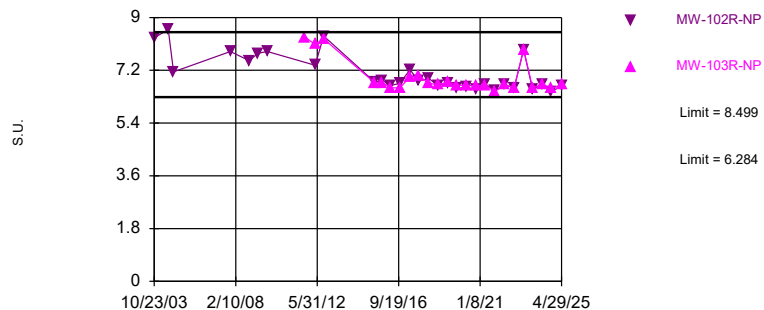
Background Data Summary: Mean=0.08172, Std. Dev.=0.04828, n=16, 50% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limits

Prediction Limit

Interwell Parametric



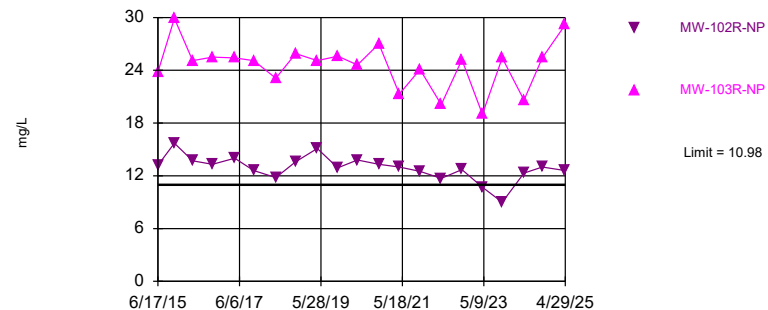
Background Data Summary: Mean=7.391, Std. Dev.=0.5537, n=25. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



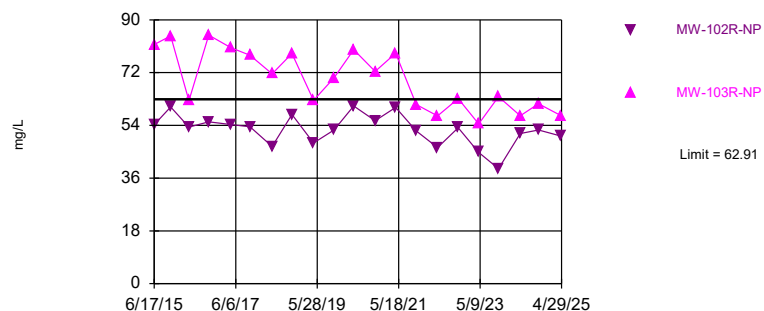
Background Data Summary: Mean=8.613, Std. Dev.=1.184, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Potassium Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



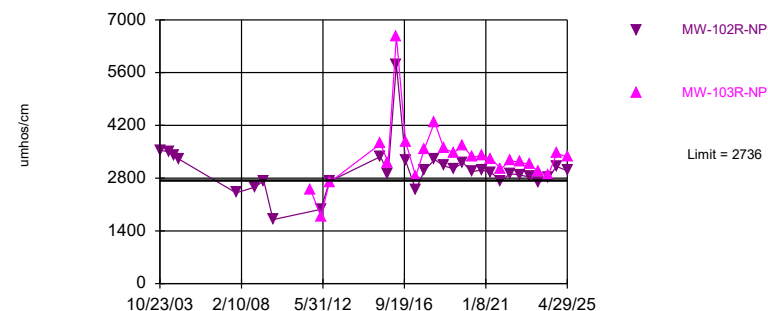
Background Data Summary: Mean=47.54, Std. Dev.=7.687, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Sodium Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



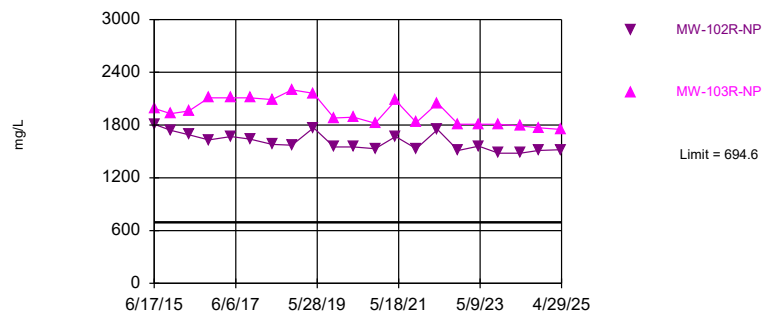
Background Data Summary: Mean=1464, Std. Dev.=636, n=26. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



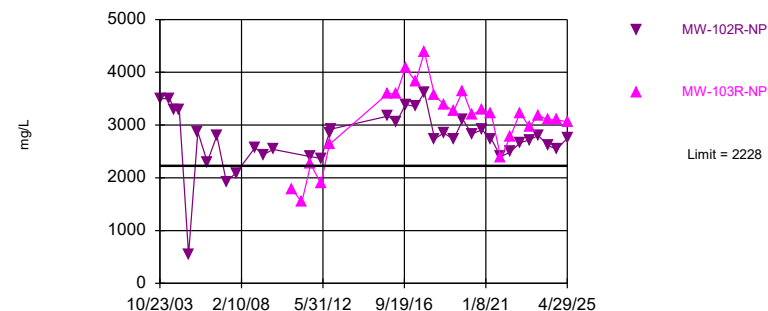
Background Data Summary: Mean=337.4, Std. Dev.=178.6, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric

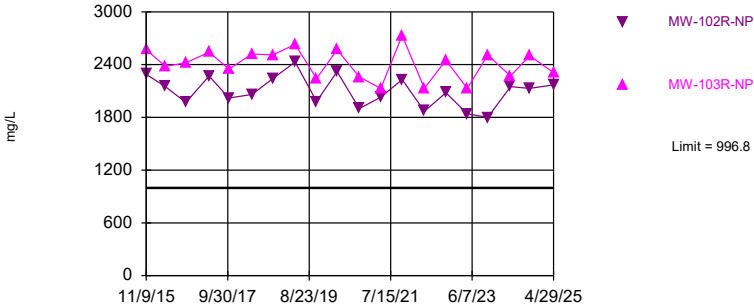


Background Data Summary: Mean=1221, Std. Dev.=503.5, n=32. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Dissolved Solids Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit
Interwell Parametric

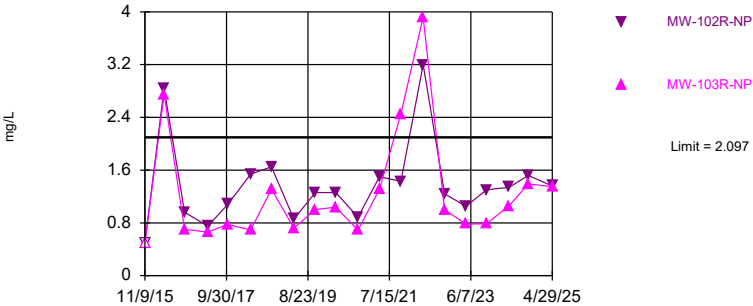


Background Data Summary: Mean=687.5, Std. Dev.=154.6, n=15. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Hardness Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=1.111, Std. Dev.=0.4935, n=15, 6.667% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Organic Carbon Analysis Run 10/29/2025 12:51 PM View: 2025_AWQR-Spring_Clay_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Bedrock Spring Control Limit

CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs
Alkalinity, Total [CaCO3] (mg/L)	MW-201	382.1	304.7	4/29/2025	288	Yes	49	MW-203R,MW-205	343.4	19.35	0
Alkalinity, Total [CaCO3] (mg/L)	MW-202R	382.1	304.7	4/29/2025	325	No	49	MW-203R,MW-205	343.4	19.35	0
Alkalinity, Total [CaCO3] (mg/L)	MW-204	382.1	304.7	4/29/2025	339	No	49	MW-203R,MW-205	343.4	19.35	0
Alkalinity, Total [CaCO3] (mg/L)	MW-206	382.1	304.7	4/29/2025	359	No	49	MW-203R,MW-205	343.4	19.35	0
Ammonia as N (mg/L)	MW-201	0.6159	n/a	4/29/2025	0.398J	No	73	MW-203R,MW-205	0.3163	0.1498	5.479
Ammonia as N (mg/L)	MW-202R	0.6159	n/a	4/29/2025	0.311J	No	73	MW-203R,MW-205	0.3163	0.1498	5.479
Ammonia as N (mg/L)	MW-204	0.6159	n/a	4/29/2025	0.335J	No	73	MW-203R,MW-205	0.3163	0.1498	5.479
Ammonia as N (mg/L)	MW-206	0.6159	n/a	4/29/2025	0.2465J	No	73	MW-203R,MW-205	0.3163	0.1498	5.479
Arsenic (mg/L)	MW-201	0.001191	n/a	4/29/2025	0.000689J	No	42	MW-203R,MW-205	0.0009728	0.0001092	97.62
Bicarbonate (mg/L)	MW-201	369.1	n/a	4/29/2025	288	No	22	MW-203R,MW-205	342.5	13.32	0
Bicarbonate (mg/L)	MW-202R	369.1	n/a	4/29/2025	325	No	22	MW-203R,MW-205	342.5	13.32	0
Bicarbonate (mg/L)	MW-204	369.1	n/a	4/29/2025	339	No	22	MW-203R,MW-205	342.5	13.32	0
Bicarbonate (mg/L)	MW-206	369.1	n/a	4/29/2025	359	No	22	MW-203R,MW-205	342.5	13.32	0
Calcium (mg/L)	MW-201	134.2	n/a	4/29/2025	86.9	No	42	MW-203R,MW-205	80.77	26.71	0
Calcium (mg/L)	MW-202R	134.2	n/a	4/29/2025	74	No	42	MW-203R,MW-205	80.77	26.71	0
Calcium (mg/L)	MW-204	134.2	n/a	4/29/2025	106	No	42	MW-203R,MW-205	80.77	26.71	0
Calcium (mg/L)	MW-206	134.2	n/a	4/29/2025	80.85	No	42	MW-203R,MW-205	80.77	26.71	0
Chloride (mg/L)	MW-201	29.52	n/a	4/29/2025	31.7	Yes	73	MW-203R,MW-205	6.443	11.54	30.14
Chloride (mg/L)	MW-202R	29.52	n/a	4/29/2025	20.2	No	73	MW-203R,MW-205	6.443	11.54	30.14
Chloride (mg/L)	MW-204	29.52	n/a	4/29/2025	27.1	No	73	MW-203R,MW-205	6.443	11.54	30.14
Chloride (mg/L)	MW-206	29.52	n/a	4/29/2025	4.25J	No	73	MW-203R,MW-205	6.443	11.54	30.14
Magnesium (mg/L)	MW-201	43.58	n/a	4/29/2025	54.9	Yes	42	MW-203R,MW-205	34.47	4.557	0
Magnesium (mg/L)	MW-202R	43.58	n/a	4/29/2025	54.8	Yes	42	MW-203R,MW-205	34.47	4.557	0
Magnesium (mg/L)	MW-204	43.58	n/a	4/29/2025	55.4	Yes	42	MW-203R,MW-205	34.47	4.557	0
Magnesium (mg/L)	MW-206	43.58	n/a	4/29/2025	36.25	No	42	MW-203R,MW-205	34.47	4.557	0
Nitrate/Nitrite as N (mg/L)	MW-201	0.05	n/a	4/29/2025	0.249	Yes	49	MW-203R,MW-205	0.05	0	100
Nitrate/Nitrite as N (mg/L)	MW-206	0.05	n/a	4/29/2025	0.0805	Yes	49	MW-203R,MW-205	0.05	0	100
pH (S.U.)	MW-201	10.08	5.511	4/29/2025	8.24	No	63	MW-203R,MW-205	7.797	1.143	0
pH (S.U.)	MW-202R	10.08	5.511	4/29/2025	7.53	No	63	MW-203R,MW-205	7.797	1.143	0
pH (S.U.)	MW-204	10.08	5.511	4/29/2025	7.06	No	63	MW-203R,MW-205	7.797	1.143	0
pH (S.U.)	MW-206	10.08	5.511	4/29/2025	7.12	No	63	MW-203R,MW-205	7.797	1.143	0
Phosphorus, Total [as P] (mg/L)	MW-201	0.1477	n/a	4/29/2025	0.0899J	No	49	MW-203R,MW-205	0.05771	0.04502	93.88
Potassium (mg/L)	MW-201	10.49	n/a	4/29/2025	26.1	Yes	42	MW-203R,MW-205	6.37	2.059	0
Potassium (mg/L)	MW-202R	10.49	n/a	4/29/2025	6.37	No	42	MW-203R,MW-205	6.37	2.059	0
Potassium (mg/L)	MW-204	10.49	n/a	4/29/2025	10.9	Yes	42	MW-203R,MW-205	6.37	2.059	0
Potassium (mg/L)	MW-206	10.49	n/a	4/29/2025	6.64	No	42	MW-203R,MW-205	6.37	2.059	0
Sodium (mg/L)	MW-201	20.49	n/a	4/29/2025	26	Yes	42	MW-203R,MW-205	17.82	1.334	0
Sodium (mg/L)	MW-202R	20.49	n/a	4/29/2025	24	Yes	42	MW-203R,MW-205	17.82	1.334	0
Sodium (mg/L)	MW-204	20.49	n/a	4/29/2025	19.2	No	42	MW-203R,MW-205	17.82	1.334	0
Sodium (mg/L)	MW-206	20.49	n/a	4/29/2025	17.4	No	42	MW-203R,MW-205	17.82	1.334	0
Specific Conductance (umhos/cm)	MW-201	1724	n/a	4/29/2025	792.1	No	62	MW-203R,MW-205	670	527.2	0
Specific Conductance (umhos/cm)	MW-202R	1724	n/a	4/29/2025	806.3	No	62	MW-203R,MW-205	670	527.2	0
Specific Conductance (umhos/cm)	MW-204	1724	n/a	4/29/2025	942.9	No	62	MW-203R,MW-205	670	527.2	0
Specific Conductance (umhos/cm)	MW-206	1724	n/a	4/29/2025	686.6	No	62	MW-203R,MW-205	670	527.2	0
Sulfate (mg/L)	MW-201	23.92	n/a	4/29/2025	129	Yes	49	MW-203R,MW-205	9.431	7.245	42.86
Sulfate (mg/L)	MW-202R	23.92	n/a	4/29/2025	101	Yes	49	MW-203R,MW-205	9.431	7.245	42.86
Sulfate (mg/L)	MW-204	23.92	n/a	4/29/2025	155	Yes	49	MW-203R,MW-205	9.431	7.245	42.86
Sulfate (mg/L)	MW-206	23.92	n/a	4/29/2025	26.5	Yes	49	MW-203R,MW-205	9.431	7.245	42.86
Total Dissolved Solids (mg/L)	MW-201	482.4	n/a	4/29/2025	496	Yes	73	MW-203R,MW-205	316	83.21	0
Total Dissolved Solids (mg/L)	MW-202R	482.4	n/a	4/29/2025	460	No	73	MW-203R,MW-205	316	83.21	0

Bedrock Spring Control Limit

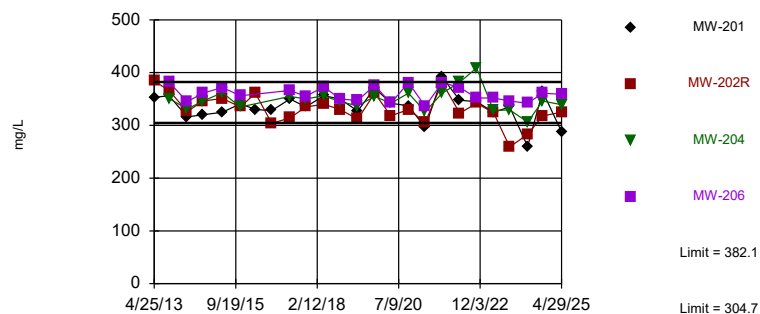
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>
Total Dissolved Solids (mg/L)	MW-204	482.4	n/a	4/29/2025	572	Yes	73	MW-203R,MW-205	316	83.21	0
Total Dissolved Solids (mg/L)	MW-206	482.4	n/a	4/29/2025	362	No	73	MW-203R,MW-205	316	83.21	0
Total Hardness (mg/L)	MW-201	505.4	n/a	4/29/2025	443	No	49	MW-203R,MW-205	342.7	81.34	0
Total Hardness (mg/L)	MW-202R	505.4	n/a	4/29/2025	410	No	49	MW-203R,MW-205	342.7	81.34	0
Total Hardness (mg/L)	MW-204	505.4	n/a	4/29/2025	493	No	49	MW-203R,MW-205	342.7	81.34	0
Total Hardness (mg/L)	MW-206	505.4	n/a	4/29/2025	351	No	49	MW-203R,MW-205	342.7	81.34	0
Total Organic Carbon (mg/L)	MW-201	2.79	n/a	4/29/2025	1.73	No	49	MW-203R,MW-205	1.126	0.8318	14.29
Total Organic Carbon (mg/L)	MW-202R	2.79	n/a	4/29/2025	1.41	No	49	MW-203R,MW-205	1.126	0.8318	14.29
Total Organic Carbon (mg/L)	MW-204	2.79	n/a	4/29/2025	1.48	No	49	MW-203R,MW-205	1.126	0.8318	14.29
Total Organic Carbon (mg/L)	MW-206	2.79	n/a	4/29/2025	1.16	No	49	MW-203R,MW-205	1.126	0.8318	14.29

Exceeds Limits: MW-201

Prediction Limit

Interwell Parametric



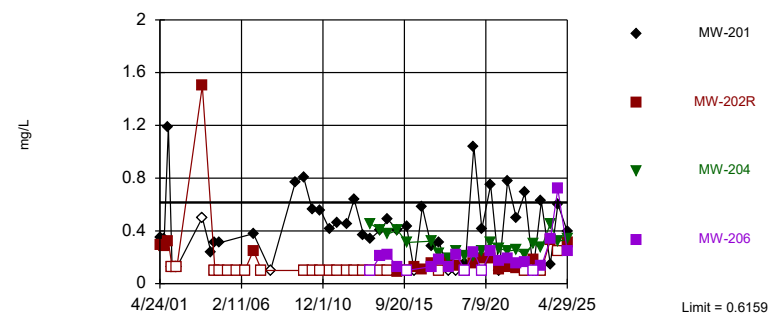
Background Data Summary: Mean=343.4, Std. Dev.=19.35, n=49. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bed
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



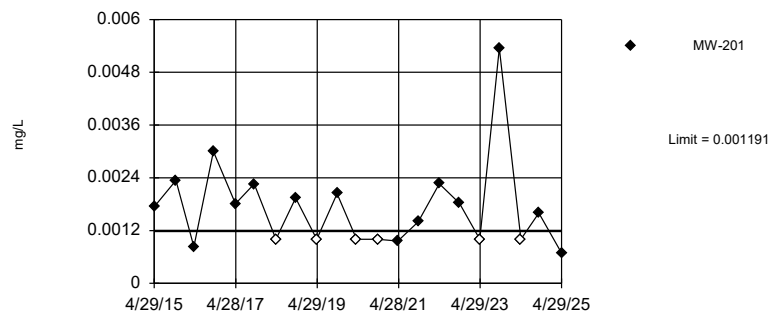
Background Data Summary: Mean=0.3163, Std. Dev.=0.1498, n=73, 5.479% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Ammonia as N Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



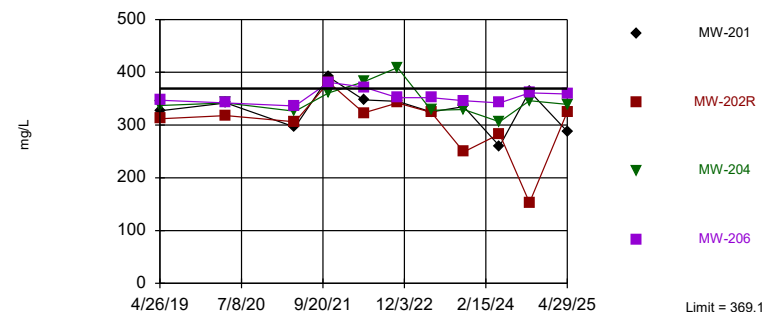
Background Data Summary: Mean=0.0009728, Std. Dev.=0.0001092, n=42, 97.62% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



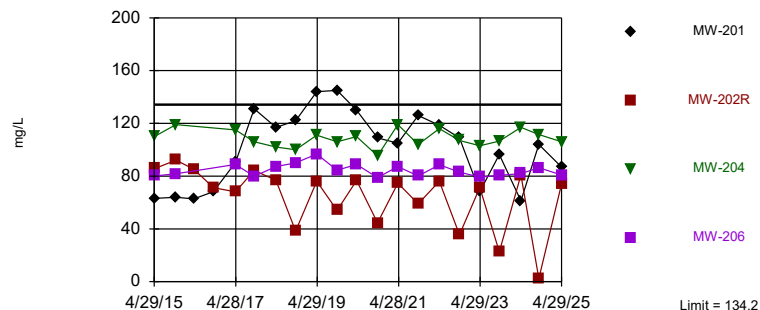
Background Data Summary: Mean=342.5, Std. Dev.=13.32, n=22. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Bicarbonate Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



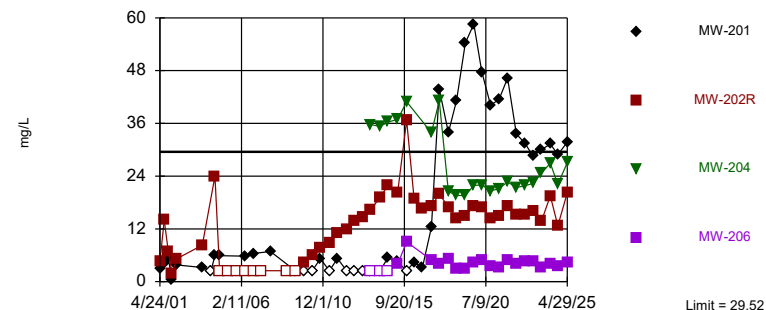
Background Data Summary: Mean=80.77, Std. Dev.=26.71, n=42. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Calcium Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201

Prediction Limit

Interwell Parametric



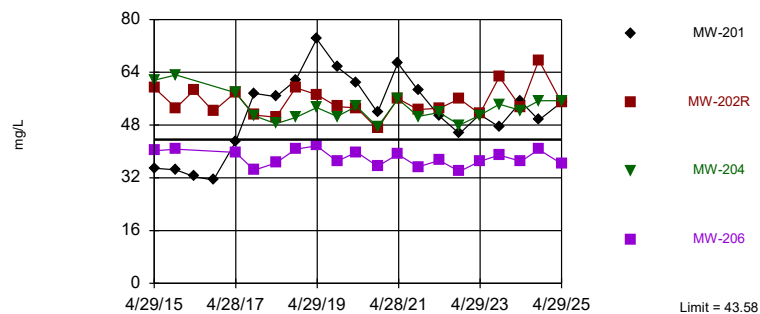
Background Data Summary: Mean=6.443, Std. Dev.=11.54, n=73, 30.14% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R, MW-204

Prediction Limit

Interwell Parametric



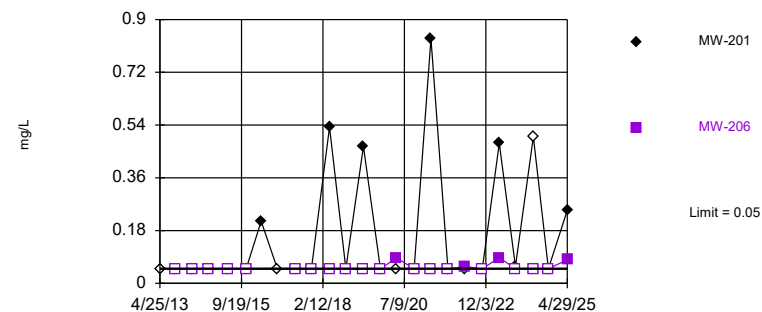
Background Data Summary: Mean=34.47, Std. Dev.=4.557, n=42. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-206

Prediction Limit

Interwell Parametric



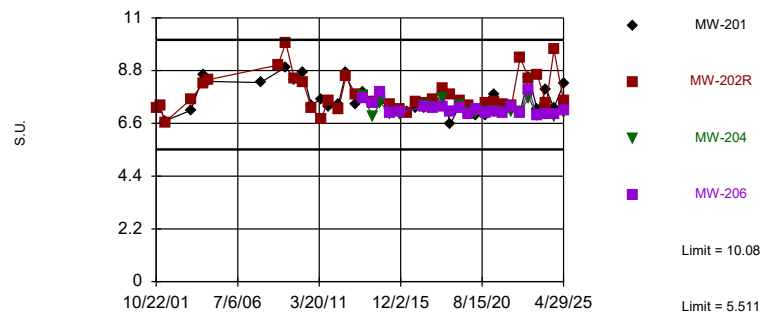
Background Data Summary: Mean=0.05, Std. Dev.=0, n=49, 100% NDs (user selected parametric test despite non-detects). Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limits

Prediction Limit

Interwell Parametric



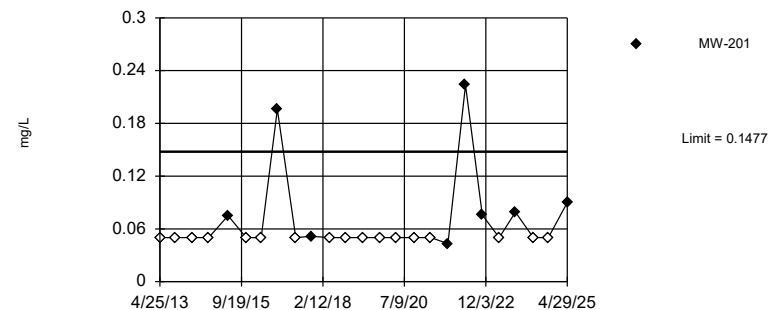
Background Data Summary: Mean=7.797, Std. Dev.=1.143, n=63. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



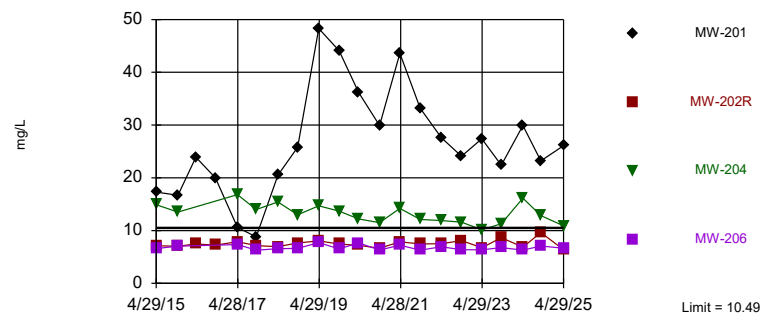
Background Data Summary: Mean=0.05771, Std. Dev.=0.04502, n=49, 93.88% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bed
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-204

Prediction Limit

Interwell Parametric



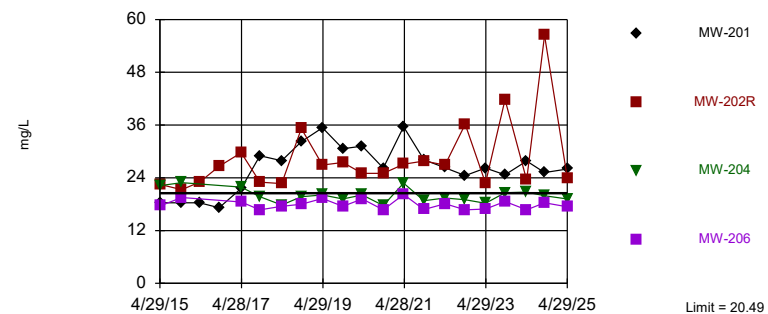
Background Data Summary: Mean=6.37, Std. Dev.=2.059, n=42. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Potassium Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R

Prediction Limit

Interwell Parametric



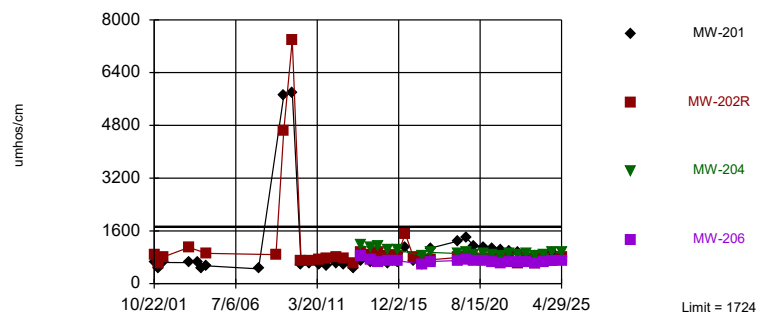
Background Data Summary: Mean=17.82, Std. Dev.=1.334, n=42. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Sodium Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



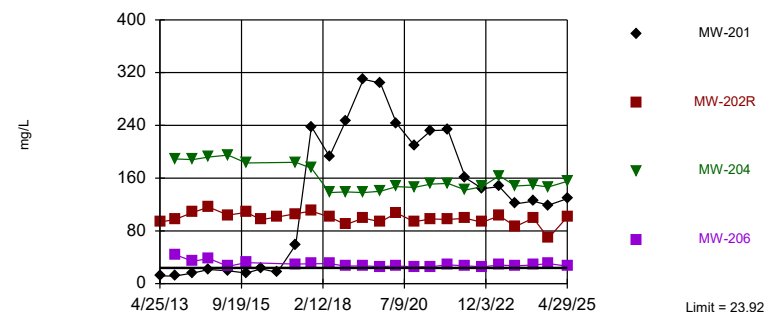
Background Data Summary: Mean=670, Std. Dev.=527.2, n=62. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedro
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R, MW-204, MW-206

Prediction Limit

Interwell Parametric



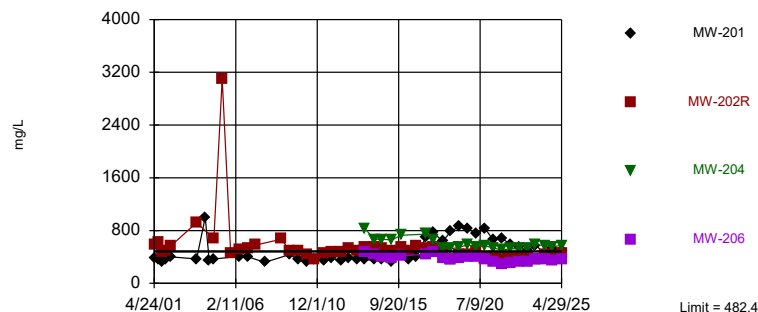
Background Data Summary: Mean=9.431, Std. Dev.=7.245, n=49, 42.86% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-204

Prediction Limit

Interwell Parametric



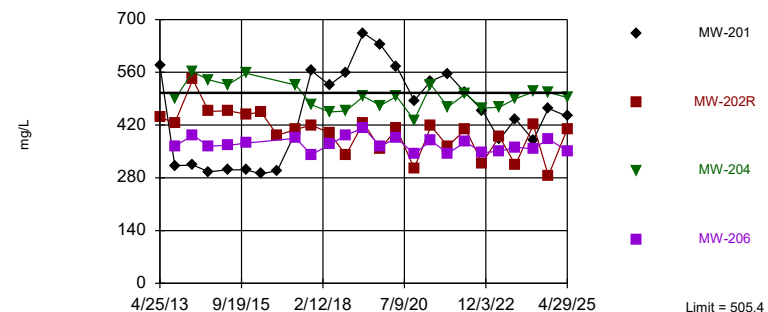
Background Data Summary: Mean=316, Std. Dev.=83.21, n=73. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Total Dissolved Solids Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedro
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric

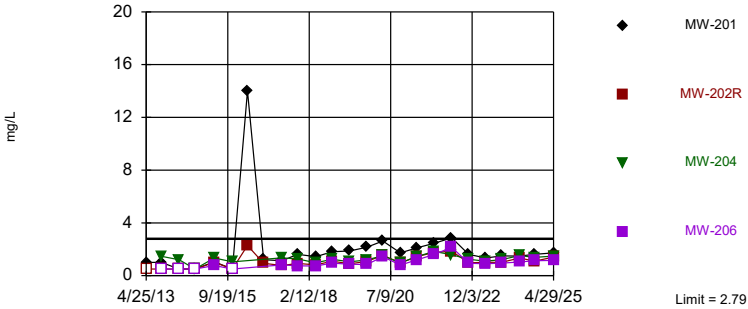


Background Data Summary: Mean=342.7, Std. Dev.=81.34, n=49. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Total Hardness Analysis Run 10/29/2025 12:24 PM View: 2025_AWQR-Spring_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=1.126, Std. Dev.=0.8318, n=49, 14.29% NDs. Normality test was disabled.
Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Clay Fall Control Limit

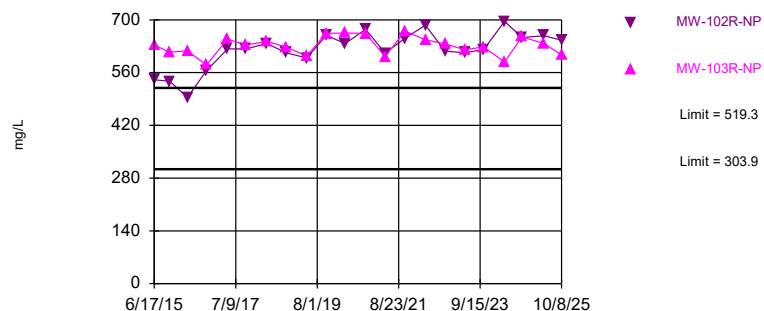
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>
Alkalinity, Total [CaCO3] (mg/L)	MW-102R-NP	519.3	303.9	10/8/2025	646	Yes	17	MW-101R-NP	411.6	53.87	0
Alkalinity, Total [CaCO3] (mg/L)	MW-103R-NP	519.3	303.9	10/8/2025	607	Yes	17	MW-101R-NP	411.6	53.87	0
Arsenic (mg/L)	MW-103R-NP	0.004695	n/a	10/8/2025	0.00056J	No	16	MW-101R-NP	0.001924	0.001385	31.25
Bicarbonate (mg/L)	MW-102R-NP	529.2	n/a	10/8/2025	646	Yes	10	MW-101R-NP	402.9	63.14	0
Bicarbonate (mg/L)	MW-103R-NP	529.2	n/a	10/8/2025	607	Yes	10	MW-101R-NP	402.9	63.14	0
Calcium (mg/L)	MW-102R-NP	224.8	n/a	10/8/2025	454	Yes	17	MW-101R-NP	151.8	36.5	0
Calcium (mg/L)	MW-103R-NP	224.8	n/a	10/8/2025	525	Yes	17	MW-101R-NP	151.8	36.5	0
Chloride (mg/L)	MW-102R-NP	14.41	n/a	10/8/2025	5.29	No	35	MW-101R-NP	5.587	4.414	17.14
Chloride (mg/L)	MW-103R-NP	14.41	n/a	10/8/2025	19.1	Yes	35	MW-101R-NP	5.587	4.414	17.14
Magnesium (mg/L)	MW-102R-NP	126.4	n/a	10/8/2025	248	Yes	17	MW-101R-NP	82.46	21.99	0
Magnesium (mg/L)	MW-103R-NP	126.4	n/a	10/8/2025	305	Yes	17	MW-101R-NP	82.46	21.99	0
pH (S.U.)	MW-102R-NP	8.471	6.291	10/8/2025	6.87	No	26	MW-101R-NP	7.381	0.5449	0
pH (S.U.)	MW-103R-NP	8.471	6.291	10/8/2025	6.73	No	26	MW-101R-NP	7.381	0.5449	0
Potassium (mg/L)	MW-102R-NP	10.9	n/a	10/8/2025	13	Yes	17	MW-101R-NP	8.601	1.148	0
Potassium (mg/L)	MW-103R-NP	10.9	n/a	10/8/2025	25.7	Yes	17	MW-101R-NP	8.601	1.148	0
Sodium (mg/L)	MW-102R-NP	62.65	n/a	10/8/2025	53.2	No	17	MW-101R-NP	47.7	7.473	0
Sodium (mg/L)	MW-103R-NP	62.65	n/a	10/8/2025	58.6	No	17	MW-101R-NP	47.7	7.473	0
Specific Conductance (umhos/cm)	MW-102R-NP	2707	n/a	10/8/2025	3017	Yes	27	MW-101R-NP	1448	629.5	0
Specific Conductance (umhos/cm)	MW-103R-NP	2707	n/a	10/8/2025	3485	Yes	27	MW-101R-NP	1448	629.5	0
Sulfate (mg/L)	MW-102R-NP	683.8	n/a	10/8/2025	1470	Yes	17	MW-101R-NP	337.9	172.9	0
Sulfate (mg/L)	MW-103R-NP	683.8	n/a	10/8/2025	1790	Yes	17	MW-101R-NP	337.9	172.9	0
Total Dissolved Solids (mg/L)	MW-102R-NP	2210	n/a	10/8/2025	2520	Yes	33	MW-101R-NP	1210	500.2	0
Total Dissolved Solids (mg/L)	MW-103R-NP	2210	n/a	10/8/2025	3110	Yes	33	MW-101R-NP	1210	500.2	0
Total Hardness (mg/L)	MW-102R-NP	996.8	n/a	10/8/2025	2150	Yes	16	MW-101R-NP	693.8	151.5	0
Total Hardness (mg/L)	MW-103R-NP	996.8	n/a	10/8/2025	2570	Yes	16	MW-101R-NP	693.8	151.5	0
Total Organic Carbon (mg/L)	MW-102R-NP	2.09	n/a	10/8/2025	1.69	No	16	MW-101R-NP	1.127	0.4815	6.25
Total Organic Carbon (mg/L)	MW-103R-NP	2.09	n/a	10/8/2025	1.54	No	16	MW-101R-NP	1.127	0.4815	6.25

Exceeds Limits: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



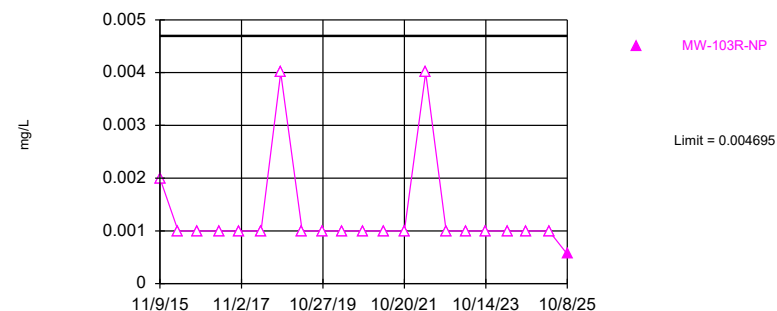
Background Data Summary: Mean=411.6, Std. Dev.=53.87, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



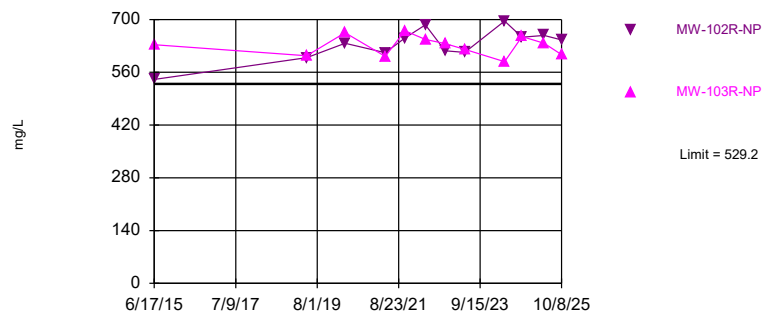
Background Data Summary: Mean=0.001924, Std. Dev.=0.001385, n=16, 31.25% NDs. Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



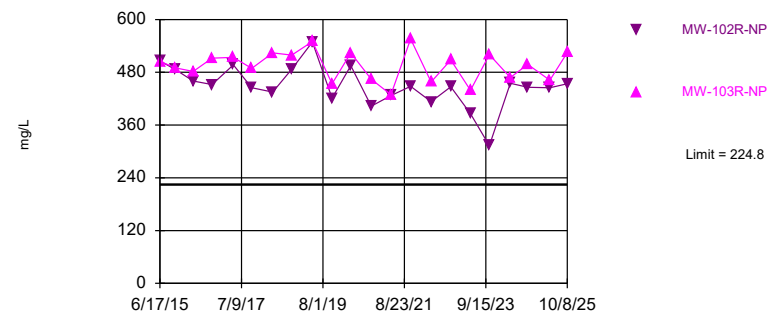
Background Data Summary: Mean=402.9, Std. Dev.=63.14, n=10. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Bicarbonate Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



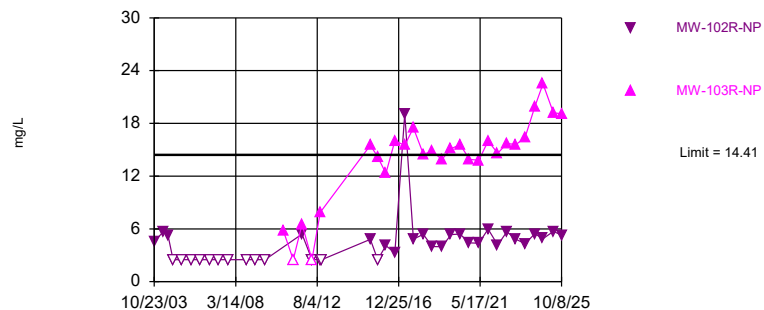
Background Data Summary: Mean=151.8, Std. Dev.=36.5, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Calcium Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-103R-NP

Prediction Limit

Interwell Parametric



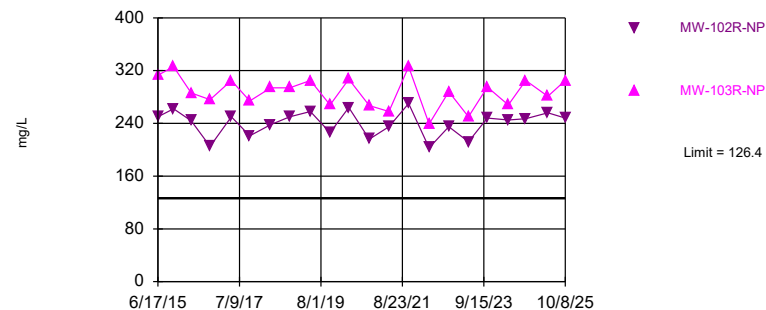
Background Data Summary: Mean=5.587, Std. Dev.=4.414, n=35, 17.14% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



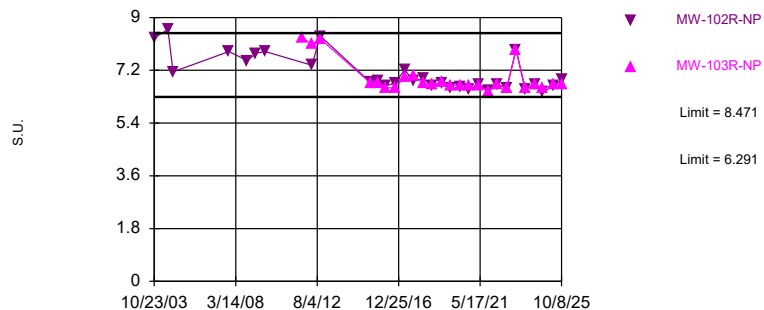
Background Data Summary: Mean=82.46, Std. Dev.=21.99, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limits

Prediction Limit

Interwell Parametric



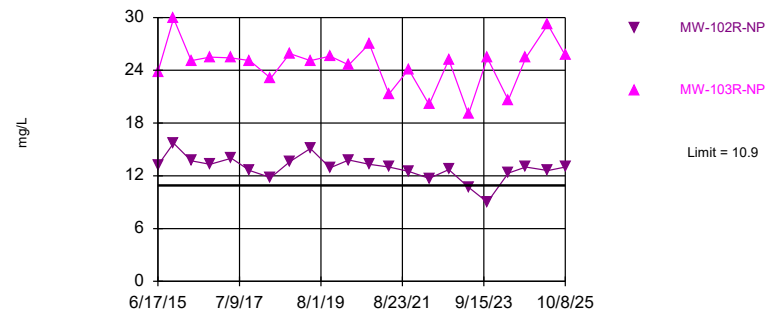
Background Data Summary: Mean=7.381, Std. Dev.=0.5449, n=26. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



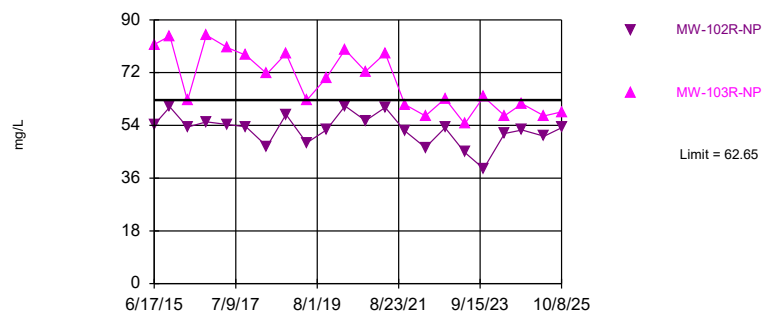
Background Data Summary: Mean=8.601, Std. Dev.=1.148, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Potassium Analysis Run 10/29/2025 12:54 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



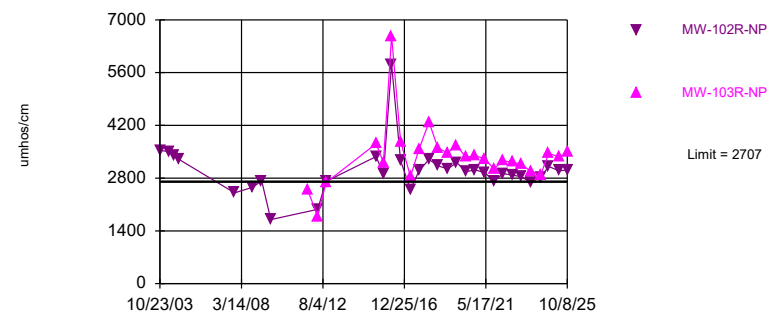
Background Data Summary: Mean=47.7, Std. Dev.=7.473, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Sodium Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



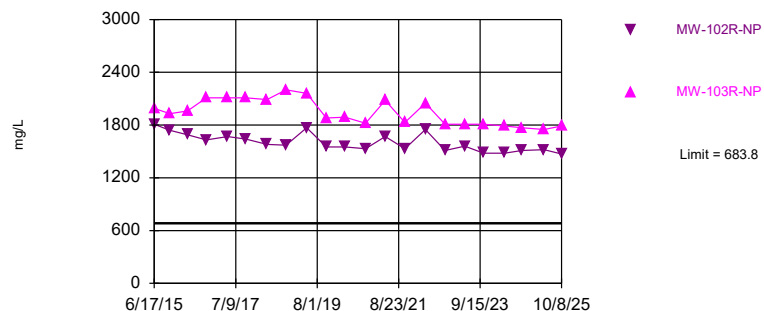
Background Data Summary: Mean=1448, Std. Dev.=629.5, n=27. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric



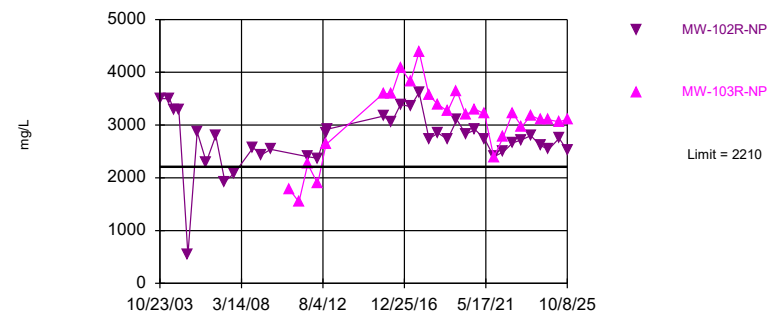
Background Data Summary: Mean=337.9, Std. Dev.=172.9, n=17. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

Prediction Limit

Interwell Parametric

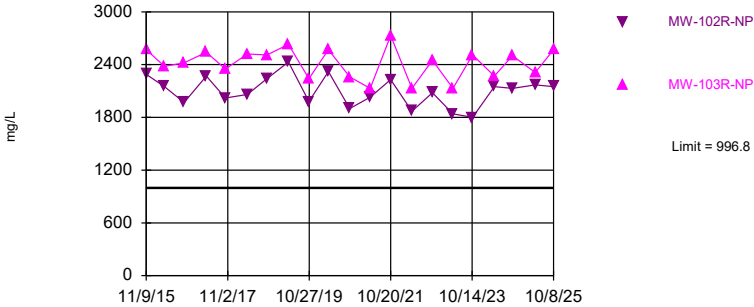


Background Data Summary: Mean=1210, Std. Dev.=500.2, n=33. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Dissolved Solids Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-102R-NP, MW-103R-NP

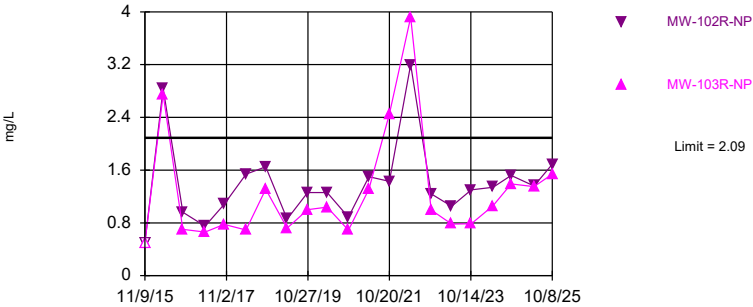
Prediction Limit
Interwell Parametric



Background Data Summary: Mean=693.8, Std. Dev.=151.5, n=16. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=1.127, Std. Dev.=0.4815, n=16, 6.25% NDs. Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Hardness Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Constituent: Total Organic Carbon Analysis Run 10/29/2025 12:55 PM View: 2025_AWQR-Fall_Clay_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Bedrock Fall Control Limit

CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs
Alkalinity, Total [CaCO3] (mg/L)	MW-201	382.1	305.6	10/8/2025	400	Yes	51	MW-203R,MW-205	343.9	19.11	0
Alkalinity, Total [CaCO3] (mg/L)	MW-202R	382.1	305.6	10/8/2025	325	No	51	MW-203R,MW-205	343.9	19.11	0
Alkalinity, Total [CaCO3] (mg/L)	MW-204	382.1	305.6	10/8/2025	357	No	51	MW-203R,MW-205	343.9	19.11	0
Alkalinity, Total [CaCO3] (mg/L)	MW-206	382.1	305.6	10/8/2025	324	No	51	MW-203R,MW-205	343.9	19.11	0
Ammonia as N (mg/L)	MW-201	0.6114	n/a	10/8/2025	0.647	Yes	75	MW-203R,MW-205	0.3128	0.1493	5.333
Ammonia as N (mg/L)	MW-202R	0.6114	n/a	10/8/2025	0.11J	No	75	MW-203R,MW-205	0.3128	0.1493	5.333
Ammonia as N (mg/L)	MW-204	0.6114	n/a	10/8/2025	0.233	No	75	MW-203R,MW-205	0.3128	0.1493	5.333
Ammonia as N (mg/L)	MW-206	0.6114	n/a	10/8/2025	0.166J	No	75	MW-203R,MW-205	0.3128	0.1493	5.333
Arsenic (mg/L)	MW-201	0.001556	n/a	10/8/2025	0.000984J	No	44	MW-203R,MW-205	0.001025	0.0002653	93.18
Arsenic (mg/L)	MW-202R	0.001556	n/a	10/8/2025	0.00153J	No	44	MW-203R,MW-205	0.001025	0.0002653	93.18
Arsenic (mg/L)	MW-204	0.001556	n/a	10/8/2025	0.00222	Yes	44	MW-203R,MW-205	0.001025	0.0002653	93.18
Arsenic (mg/L)	MW-206	0.001556	n/a	10/8/2025	0.00153J	No	44	MW-203R,MW-205	0.001025	0.0002653	93.18
Bicarbonate (mg/L)	MW-201	370.1	n/a	10/8/2025	400	Yes	24	MW-203R,MW-205	343.6	13.25	0
Bicarbonate (mg/L)	MW-202R	370.1	n/a	10/8/2025	325	No	24	MW-203R,MW-205	343.6	13.25	0
Bicarbonate (mg/L)	MW-204	370.1	n/a	10/8/2025	357	No	24	MW-203R,MW-205	343.6	13.25	0
Bicarbonate (mg/L)	MW-206	370.1	n/a	10/8/2025	324	No	24	MW-203R,MW-205	343.6	13.25	0
Calcium (mg/L)	MW-201	132.8	n/a	10/8/2025	117	No	44	MW-203R,MW-205	80.58	26.1	0
Calcium (mg/L)	MW-202R	132.8	n/a	10/8/2025	53	No	44	MW-203R,MW-205	80.58	26.1	0
Calcium (mg/L)	MW-204	132.8	n/a	10/8/2025	113	No	44	MW-203R,MW-205	80.58	26.1	0
Calcium (mg/L)	MW-206	132.8	n/a	10/8/2025	82.6	No	44	MW-203R,MW-205	80.58	26.1	0
Chloride (mg/L)	MW-201	29.14	n/a	10/8/2025	30.6	Yes	75	MW-203R,MW-205	6.358	11.39	29.33
Chloride (mg/L)	MW-202R	29.14	n/a	10/8/2025	15.9	No	75	MW-203R,MW-205	6.358	11.39	29.33
Chloride (mg/L)	MW-204	29.14	n/a	10/8/2025	24	No	75	MW-203R,MW-205	6.358	11.39	29.33
Chloride (mg/L)	MW-206	29.14	n/a	10/8/2025	3.345J	No	75	MW-203R,MW-205	6.358	11.39	29.33
Magnesium (mg/L)	MW-201	43.47	n/a	10/8/2025	55.8	Yes	44	MW-203R,MW-205	34.53	4.469	0
Magnesium (mg/L)	MW-202R	43.47	n/a	10/8/2025	53.4	Yes	44	MW-203R,MW-205	34.53	4.469	0
Magnesium (mg/L)	MW-204	43.47	n/a	10/8/2025	57	Yes	44	MW-203R,MW-205	34.53	4.469	0
Magnesium (mg/L)	MW-206	43.47	n/a	10/8/2025	37.7	No	44	MW-203R,MW-205	34.53	4.469	0
pH (S.U.)	MW-201	10.04	5.521	10/8/2025	7.82	No	65	MW-203R,MW-205	7.779	1.129	0
pH (S.U.)	MW-202R	10.04	5.521	10/8/2025	7.62	No	65	MW-203R,MW-205	7.779	1.129	0
pH (S.U.)	MW-204	10.04	5.521	10/8/2025	7.08	No	65	MW-203R,MW-205	7.779	1.129	0
pH (S.U.)	MW-206	10.04	5.521	10/8/2025	7.12	No	65	MW-203R,MW-205	7.779	1.129	0
Phosphorus, Total [as P] (mg/L)	MW-201	0.1457	n/a	10/8/2025	0.122	No	51	MW-203R,MW-205	0.0574	0.04414	94.12
Potassium (mg/L)	MW-201	10.37	n/a	10/8/2025	25.4	Yes	44	MW-203R,MW-205	6.331	2.02	0
Potassium (mg/L)	MW-202R	10.37	n/a	10/8/2025	7	No	44	MW-203R,MW-205	6.331	2.02	0
Potassium (mg/L)	MW-204	10.37	n/a	10/8/2025	10.8	Yes	44	MW-203R,MW-205	6.331	2.02	0
Potassium (mg/L)	MW-206	10.37	n/a	10/8/2025	6.53	No	44	MW-203R,MW-205	6.331	2.02	0
Sodium (mg/L)	MW-201	20.42	n/a	10/8/2025	27.1	Yes	44	MW-203R,MW-205	17.77	1.328	0
Sodium (mg/L)	MW-202R	20.42	n/a	10/8/2025	28.8	Yes	44	MW-203R,MW-205	17.77	1.328	0
Sodium (mg/L)	MW-204	20.42	n/a	10/8/2025	19.6	No	44	MW-203R,MW-205	17.77	1.328	0
Sodium (mg/L)	MW-206	20.42	n/a	10/8/2025	17.3	No	44	MW-203R,MW-205	17.77	1.328	0
Specific Conductance (umhos/cm)	MW-201	1707	n/a	10/8/2025	1036	No	64	MW-203R,MW-205	669.7	518.8	0
Specific Conductance (umhos/cm)	MW-202R	1707	n/a	10/8/2025	828.4	No	64	MW-203R,MW-205	669.7	518.8	0
Specific Conductance (umhos/cm)	MW-204	1707	n/a	10/8/2025	989.7	No	64	MW-203R,MW-205	669.7	518.8	0
Specific Conductance (umhos/cm)	MW-206	1707	n/a	10/8/2025	721.3	No	64	MW-203R,MW-205	669.7	518.8	0
Sulfate (mg/L)	MW-201	23.86	n/a	10/8/2025	136	Yes	51	MW-203R,MW-205	9.408	7.226	41.18
Sulfate (mg/L)	MW-202R	23.86	n/a	10/8/2025	100	Yes	51	MW-203R,MW-205	9.408	7.226	41.18
Sulfate (mg/L)	MW-204	23.86	n/a	10/8/2025	158	Yes	51	MW-203R,MW-205	9.408	7.226	41.18
Sulfate (mg/L)	MW-206	23.86	n/a	10/8/2025	26.7	Yes	51	MW-203R,MW-205	9.408	7.226	41.18
Total Dissolved Solids (mg/L)	MW-201	480.6	n/a	10/8/2025	626	Yes	75	MW-203R,MW-205	316.4	82.12	0

Bedrock Fall Control Limit

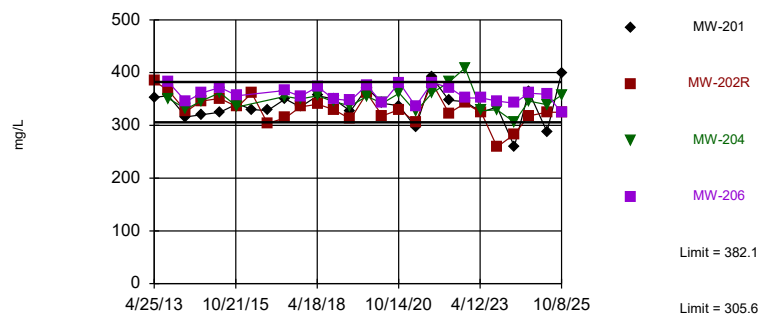
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master Printed 10/29/2025, 12:40 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>
Total Dissolved Solids (mg/L)	MW-202R	480.6	n/a	10/8/2025	382	No	75	MW-203R,MW-205	316.4	82.12	0
Total Dissolved Solids (mg/L)	MW-204	480.6	n/a	10/8/2025	692	Yes	75	MW-203R,MW-205	316.4	82.12	0
Total Dissolved Solids (mg/L)	MW-206	480.6	n/a	10/8/2025	367	No	75	MW-203R,MW-205	316.4	82.12	0
Total Hardness (mg/L)	MW-201	502	n/a	10/8/2025	522	Yes	51	MW-203R,MW-205	342.5	79.72	0
Total Hardness (mg/L)	MW-202R	502	n/a	10/8/2025	352	No	51	MW-203R,MW-205	342.5	79.72	0
Total Hardness (mg/L)	MW-204	502	n/a	10/8/2025	517	Yes	51	MW-203R,MW-205	342.5	79.72	0
Total Hardness (mg/L)	MW-206	502	n/a	10/8/2025	361.5	No	51	MW-203R,MW-205	342.5	79.72	0
Total Kjeldahl Nitrogen (mg/L)	MW-201	0.6738	n/a	10/8/2025	1.35	Yes	51	MW-203R,MW-205	0.5109	0.08144	72.55
Total Kjeldahl Nitrogen (mg/L)	MW-204	0.6738	n/a	10/8/2025	0.639J	No	51	MW-203R,MW-205	0.5109	0.08144	72.55
Total Organic Carbon (mg/L)	MW-201	2.784	n/a	10/8/2025	1.95	No	51	MW-203R,MW-205	1.144	0.82	13.73
Total Organic Carbon (mg/L)	MW-202R	2.784	n/a	10/8/2025	1.55	No	51	MW-203R,MW-205	1.144	0.82	13.73
Total Organic Carbon (mg/L)	MW-204	2.784	n/a	10/8/2025	1.78	No	51	MW-203R,MW-205	1.144	0.82	13.73
Total Organic Carbon (mg/L)	MW-206	2.784	n/a	10/8/2025	1.42	No	51	MW-203R,MW-205	1.144	0.82	13.73

Exceeds Limits: MW-201

Prediction Limit

Interwell Parametric



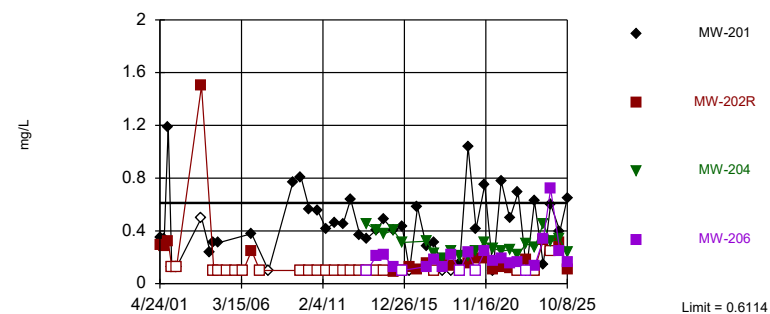
Background Data Summary: Mean=343.9, Std. Dev.=19.11, n=51. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Alkalinity, Total [CaCO₃] Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedro
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201

Prediction Limit

Interwell Parametric



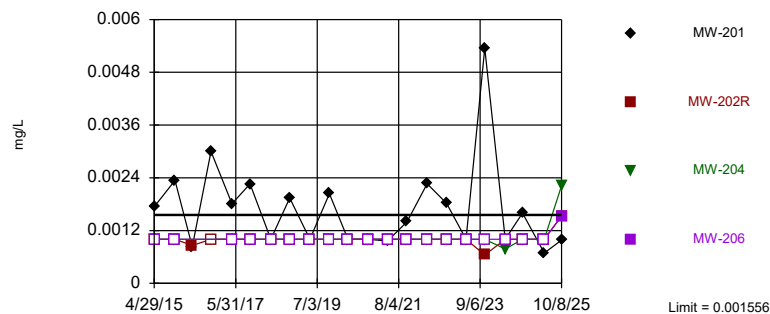
Background Data Summary: Mean=0.3128, Std. Dev.=0.1493, n=75, 5.333% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Ammonia as N Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-204

Prediction Limit

Interwell Parametric



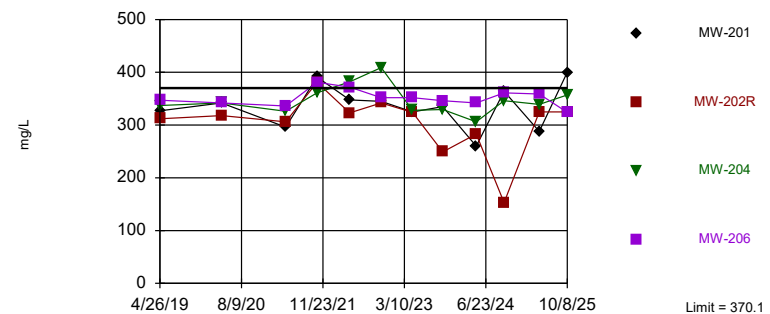
Background Data Summary: Mean=0.001025, Std. Dev.=0.0002653, n=44, 93.18% NDs (user selected parametric test despite non-detects). Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Arsenic Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201

Prediction Limit

Interwell Parametric



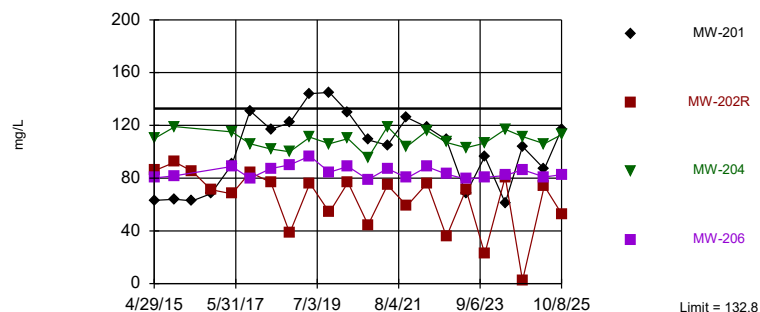
Background Data Summary: Mean=343.6, Std. Dev.=13.25, n=24. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Bicarbonate Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



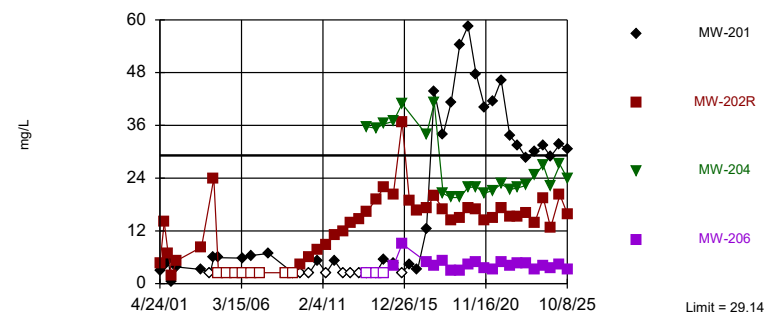
Background Data Summary: Mean=80.58, Std. Dev.=26.1, n=44. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Calcium Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201

Prediction Limit

Interwell Parametric



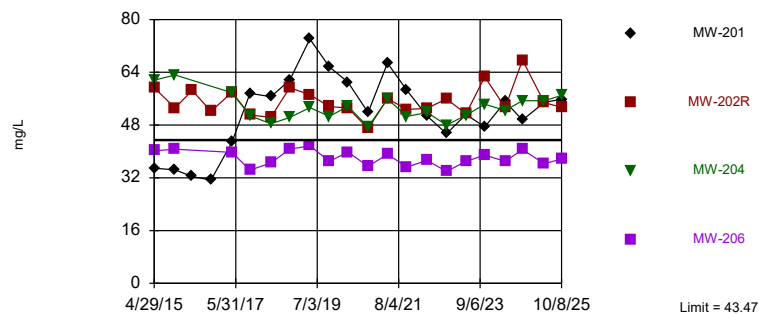
Background Data Summary: Mean=6.358, Std. Dev.=11.39, n=75, 29.33% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Chloride Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R, MW-204

Prediction Limit

Interwell Parametric



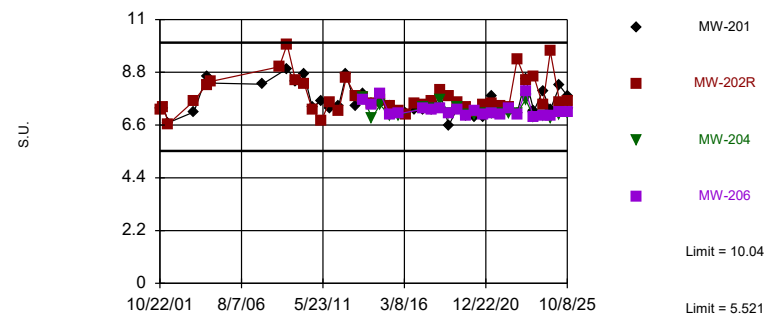
Background Data Summary: Mean=34.53, Std. Dev.=4.469, n=44. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Magnesium Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limits

Prediction Limit

Interwell Parametric



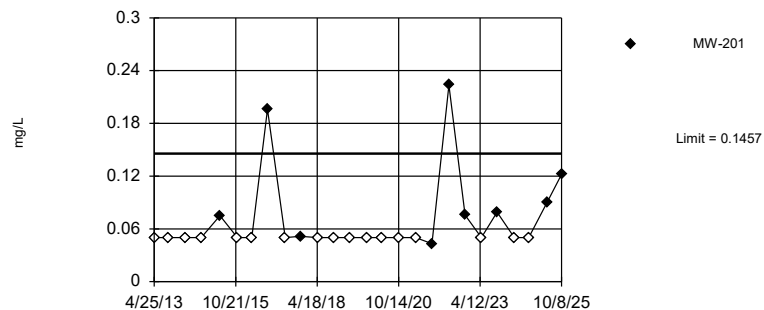
Background Data Summary: Mean=7.779, Std. Dev.=1.129, n=65. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: pH Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



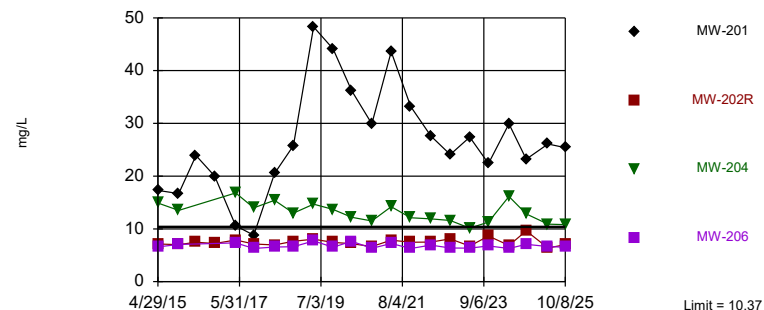
Background Data Summary: Mean=0.0574, Std. Dev.=0.04414, n=51, 94.12% NDs (user selected parametric test despite non-detects). Normality test was disabled. Assumes 12 future values. Kappa overridden to 2.

Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedro
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-204

Prediction Limit

Interwell Parametric



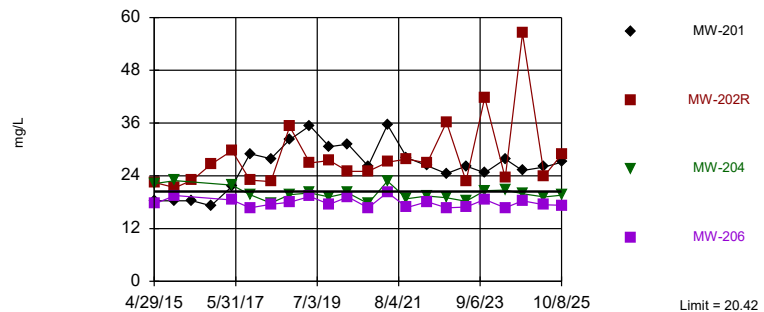
Background Data Summary: Mean=6.331, Std. Dev.=2.02, n=44. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Potassium Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R

Prediction Limit

Interwell Parametric



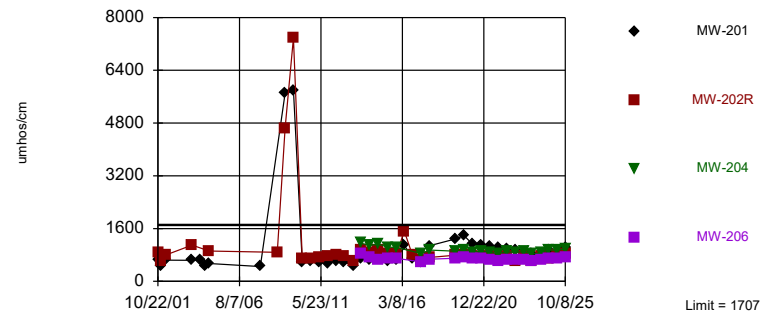
Background Data Summary: Mean=17.77, Std. Dev.=1.328, n=44. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Sodium Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric



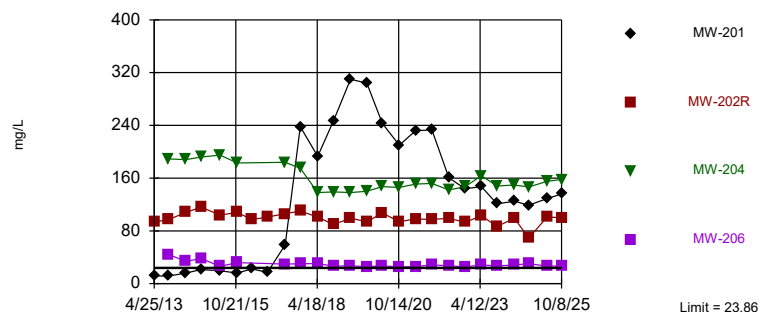
Background Data Summary: Mean=669.7, Std. Dev.=518.8, n=64. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Specific Conductance Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-202R, MW-204, MW-206

Prediction Limit

Interwell Parametric



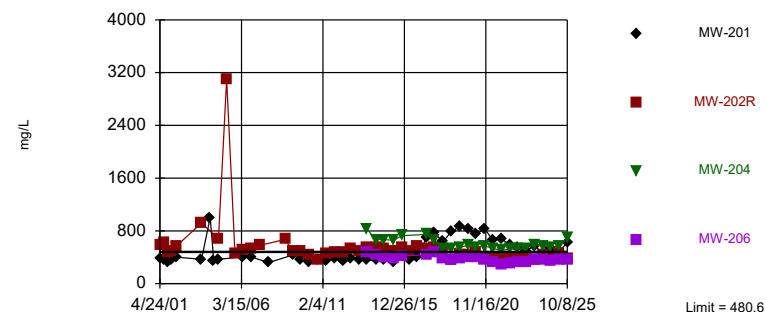
Background Data Summary: Mean=9.408, Std. Dev.=7.226, n=51, 41.18% NDs. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Sulfate Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-204

Prediction Limit

Interwell Parametric



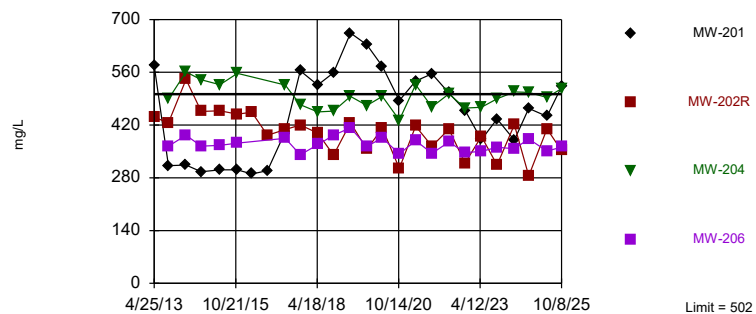
Background Data Summary: Mean=316.4, Std. Dev.=82.12, n=75. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Total Dissolved Solids Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201, MW-204

Prediction Limit

Interwell Parametric



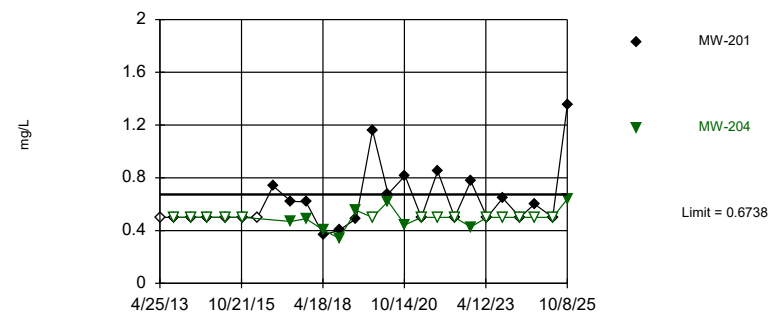
Background Data Summary: Mean=342.5, Std. Dev.=79.72, n=51. Normality test was disabled. Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Constituent: Total Hardness Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock_CL
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Exceeds Limit: MW-201

Prediction Limit

Interwell Parametric



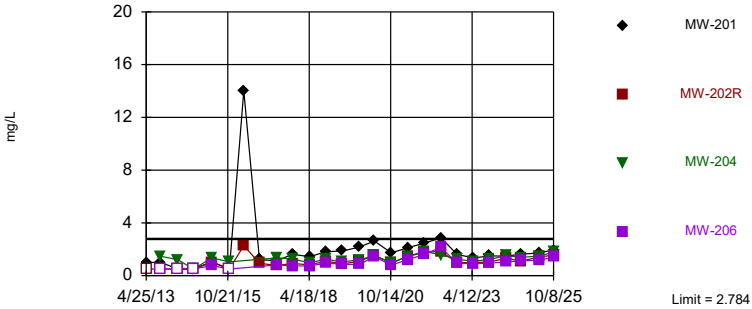
Background Data Summary: Mean=0.5109, Std. Dev.=0.08144, n=51, 72.55% NDs (user selected parametric test despite non-detects). Normality test was disabled. Comparing 2 points to limit. Assumes 11 future values. Kappa overridden to 2.

Constituent: Total Kjeldahl Nitrogen Analysis Run 10/29/2025 12:38 PM View: 2025_AWQR-Fall_Bedrock
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Within Limit

Prediction Limit

Interwell Parametric

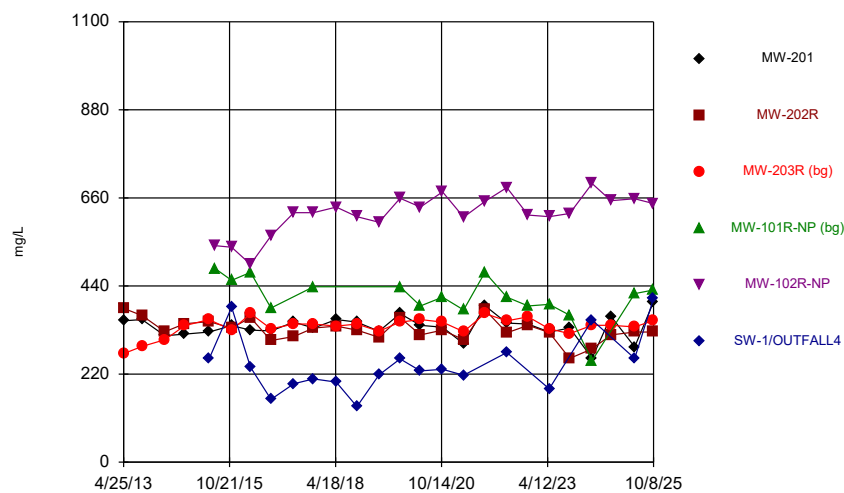


Background Data Summary: Mean=1.144, Std. Dev.=0.82, n=51, 13.73% NDs. Normality test was disabled.
Comparing 4 points to limit. Assumes 9 future values. Kappa overridden to 2.

Attachment C

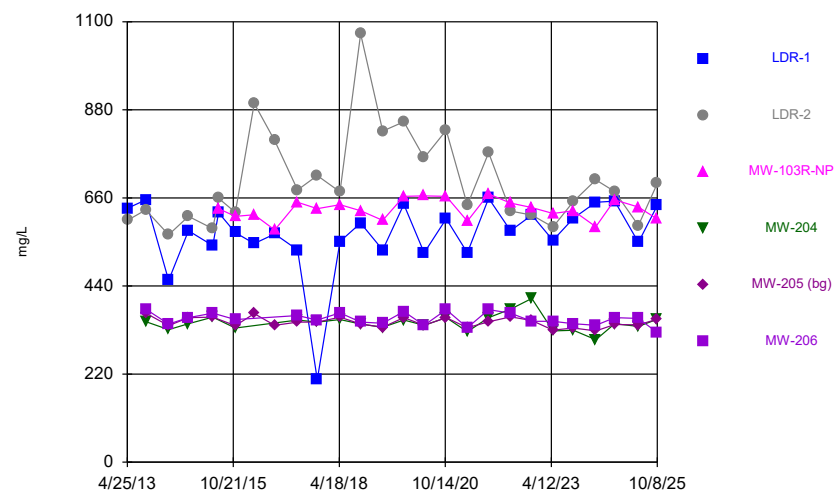
Time Series Graphs

Time Series



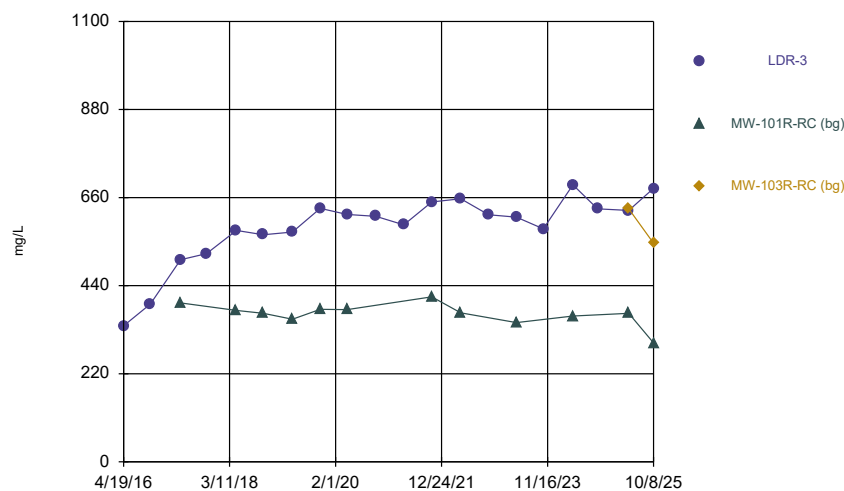
Constituent: Alkalinity, Total [CaCO3] Analysis Run 10/29/2025 12:41 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



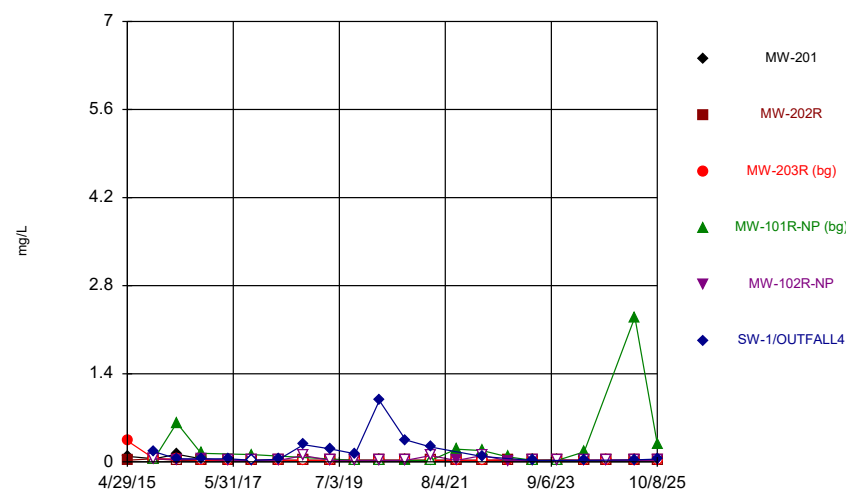
Constituent: Alkalinity, Total [CaCO3] Analysis Run 10/29/2025 12:41 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



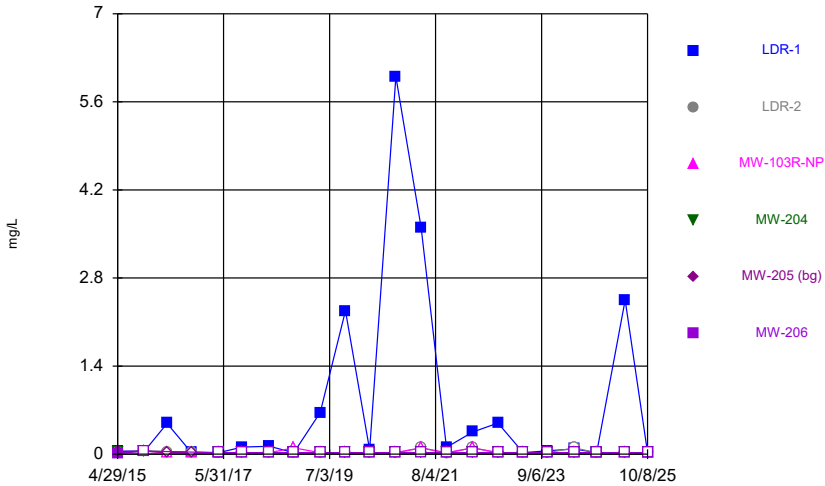
Constituent: Alkalinity, Total [CaCO3] Analysis Run 10/29/2025 12:41 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



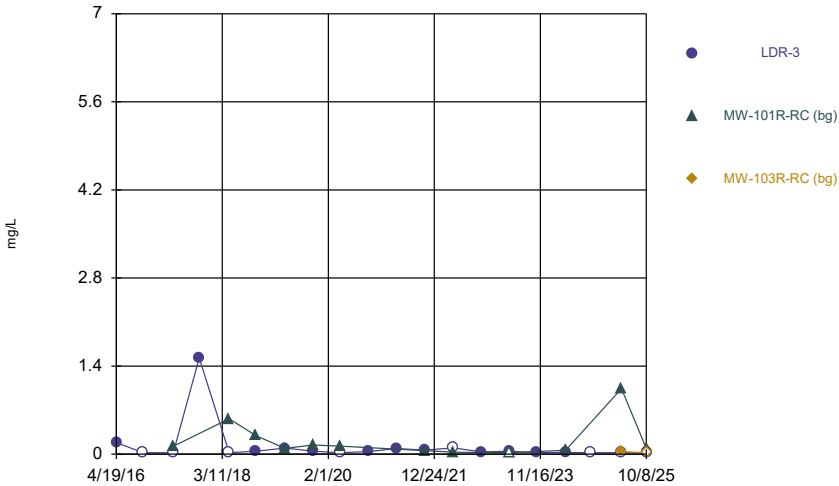
Constituent: Aluminum Analysis Run 10/29/2025 12:41 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



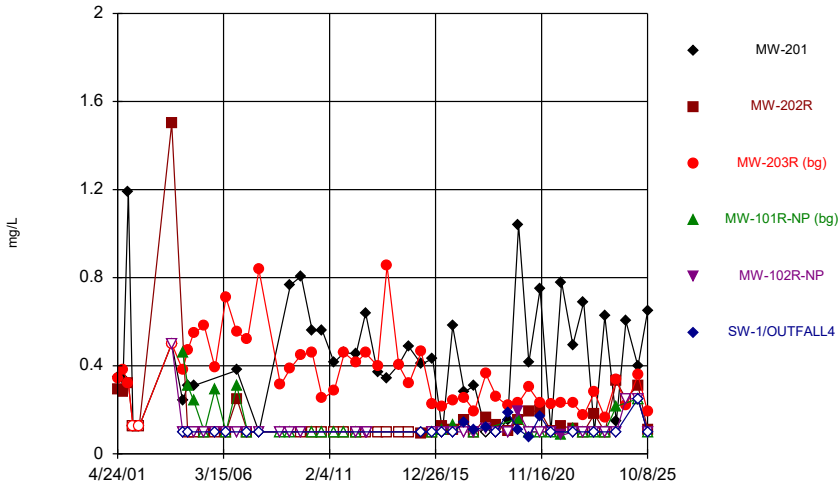
Constituent: Aluminum Analysis Run 10/29/2025 12:41 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



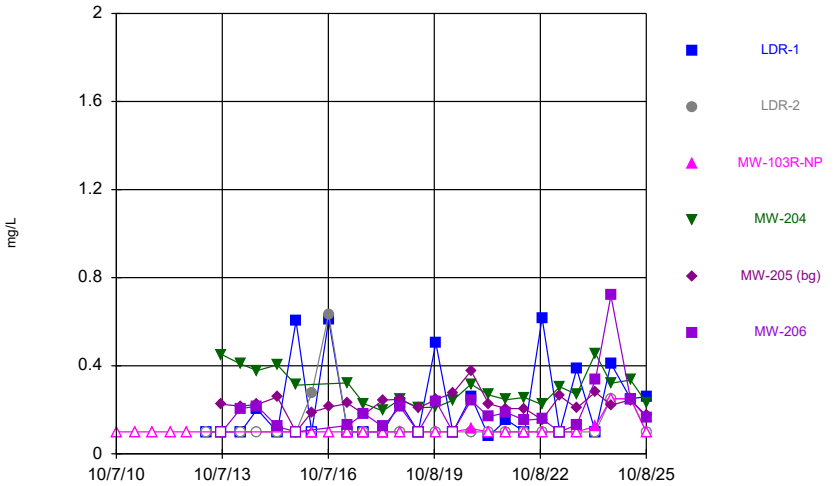
Constituent: Aluminum Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



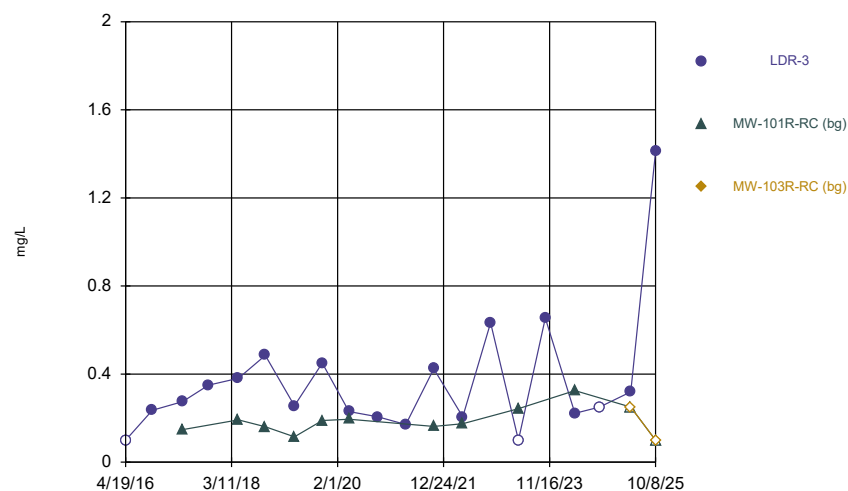
Constituent: Ammonia as N Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



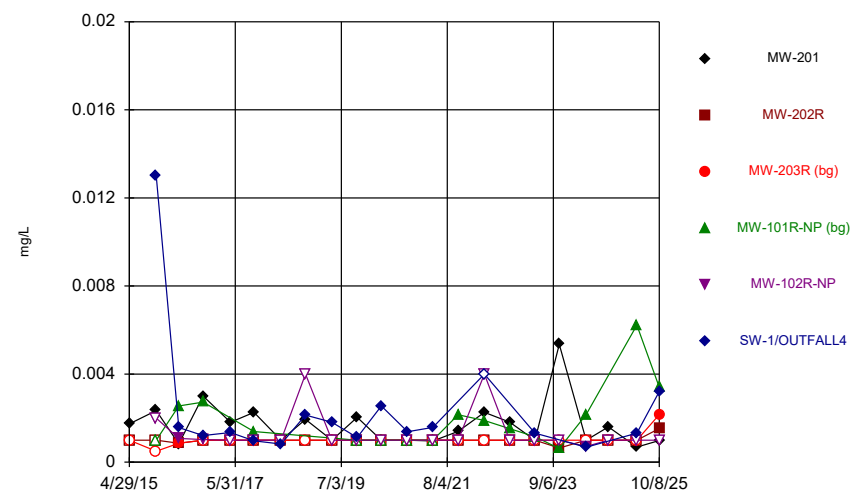
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



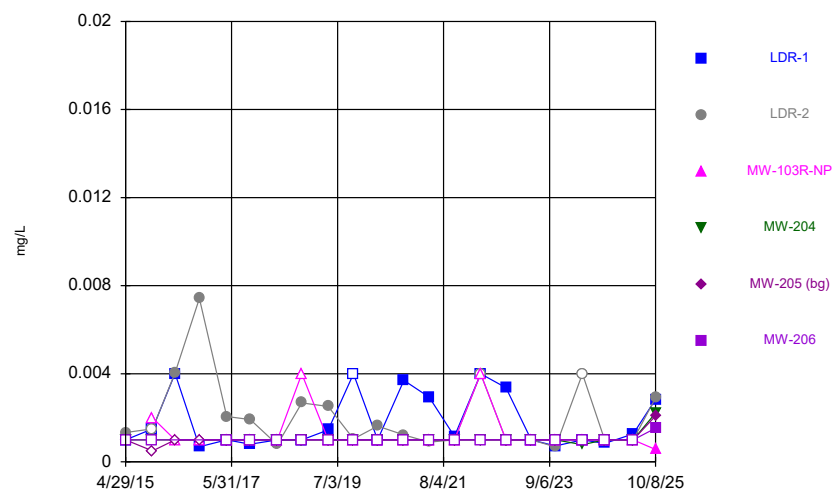
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



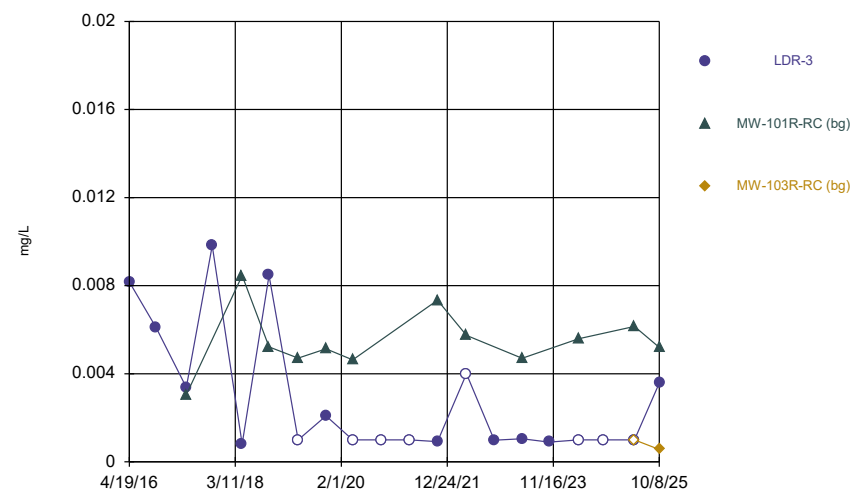
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



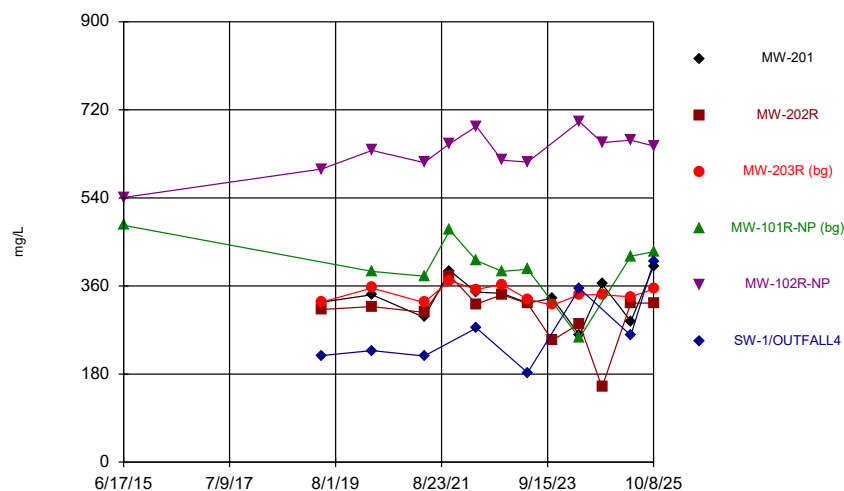
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series

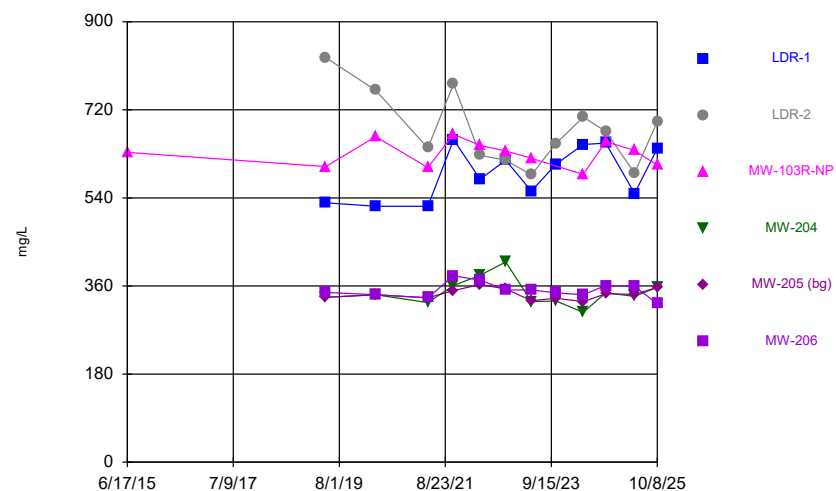


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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

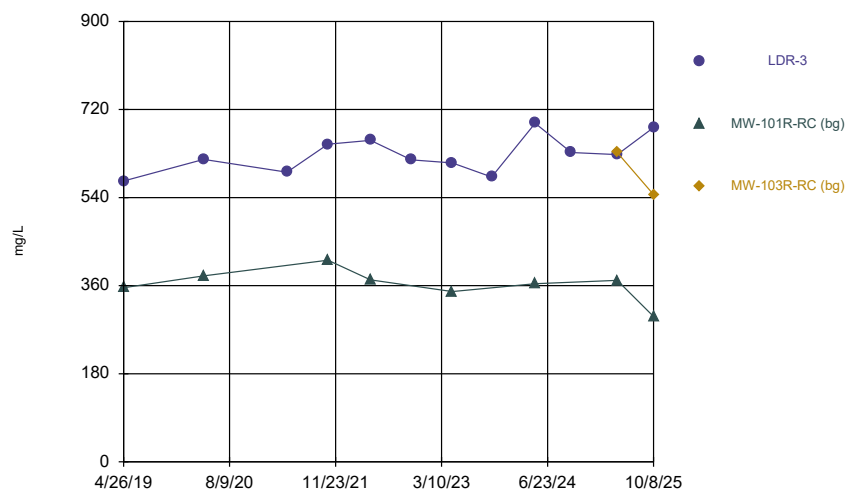
Time Series



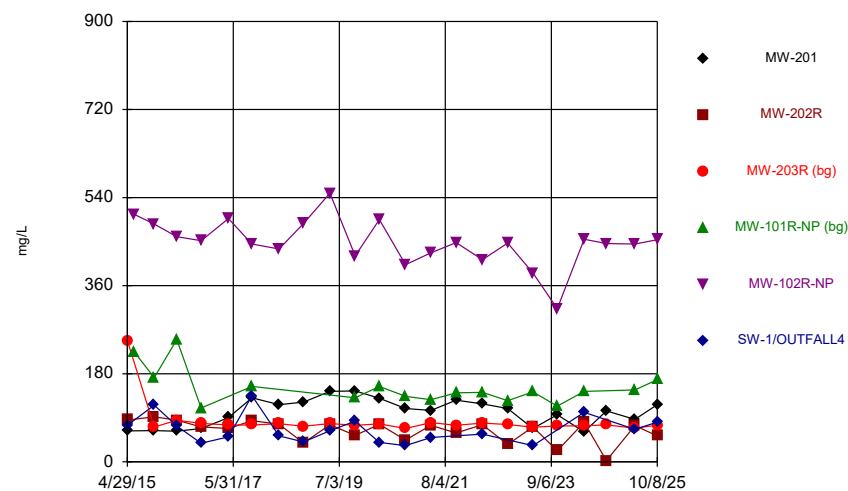
Time Series



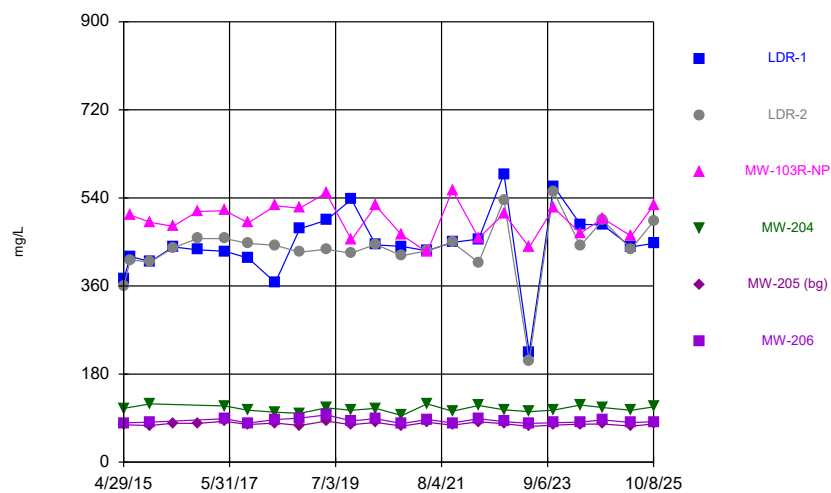
Time Series



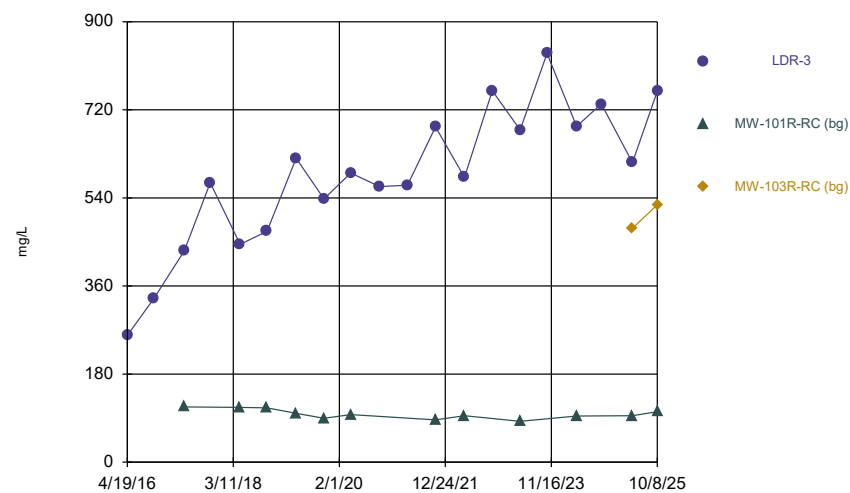
Time Series



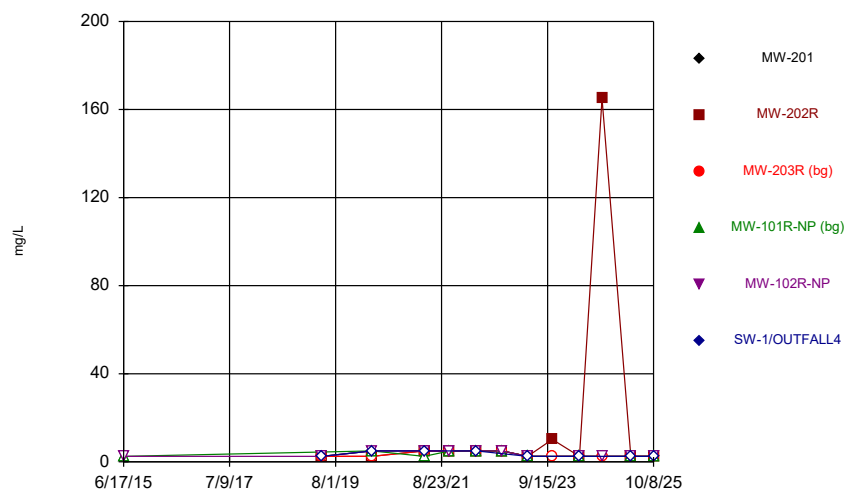
Time Series



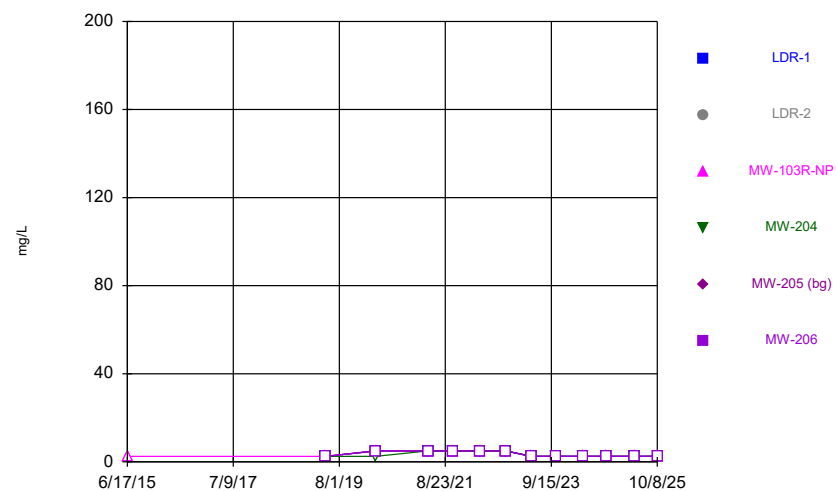
Time Series



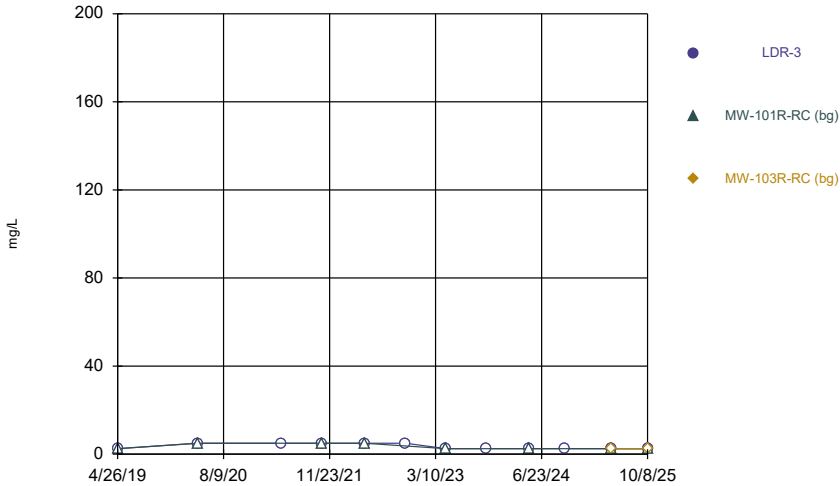
Time Series



Time Series

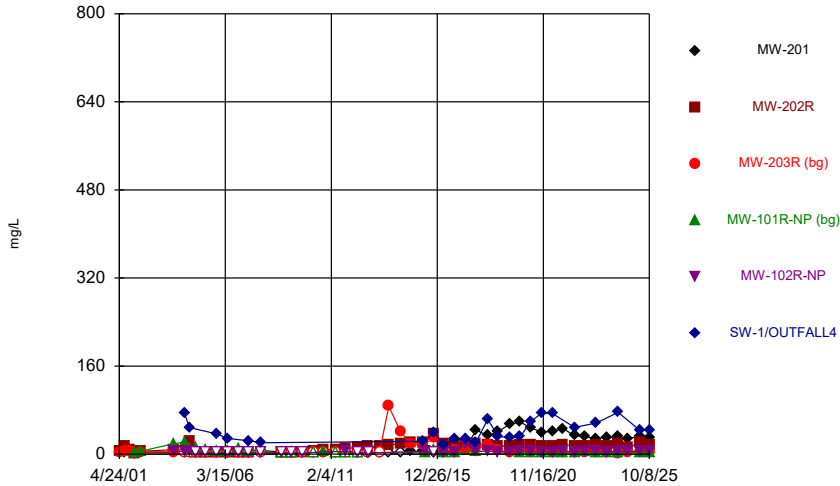


Time Series



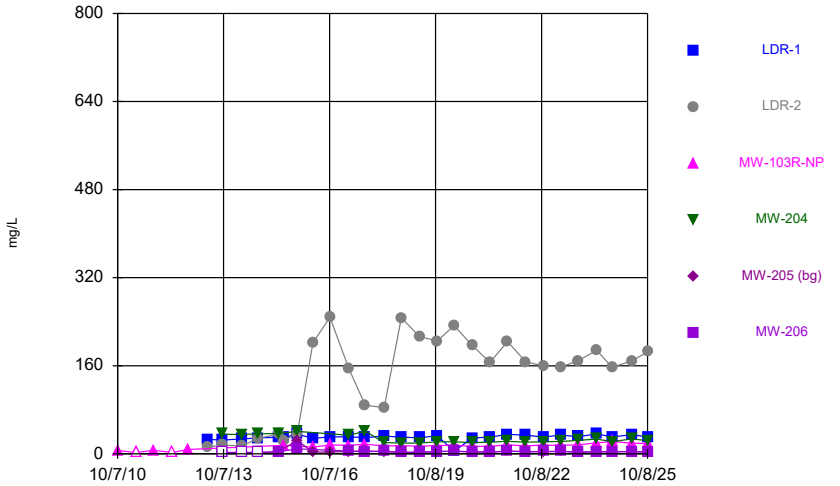
Constituent: Carbonate Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



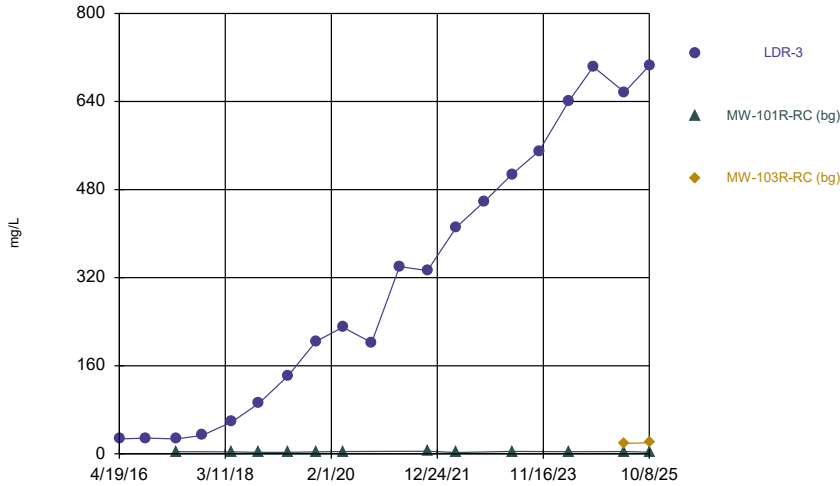
Constituent: Chloride Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



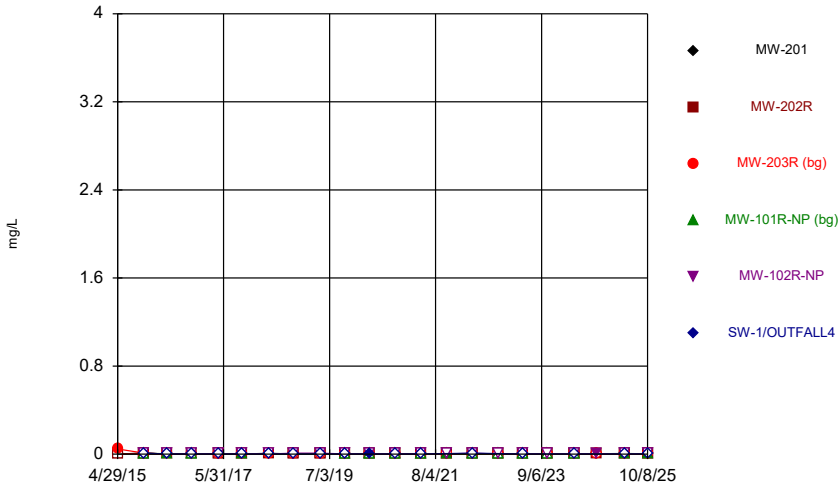
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



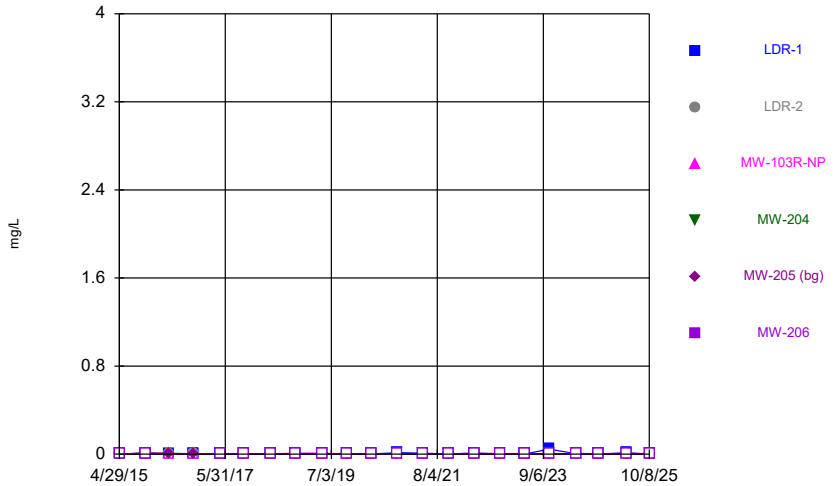
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



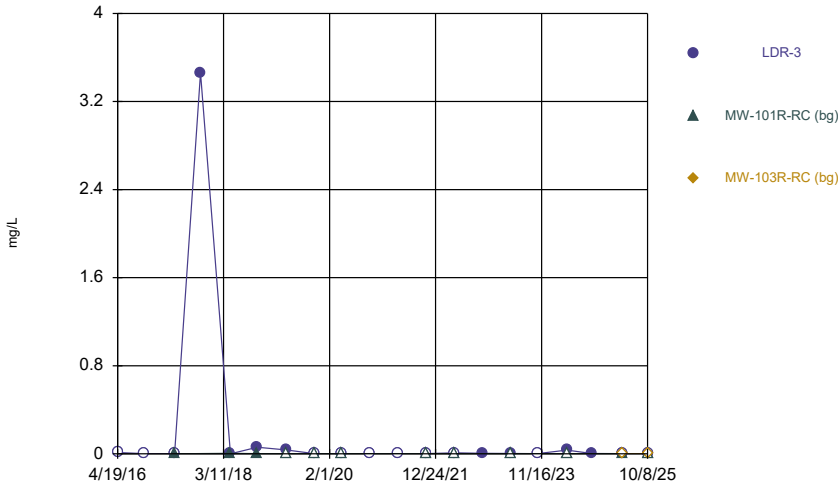
Constituent: Chromium Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



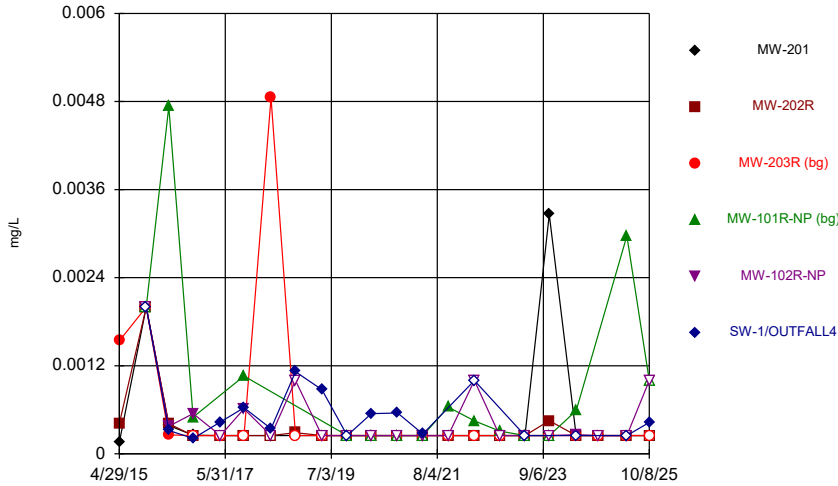
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



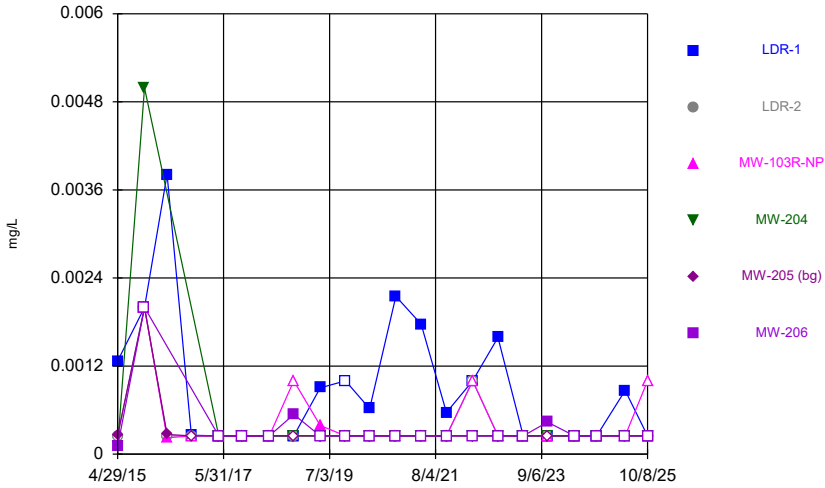
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



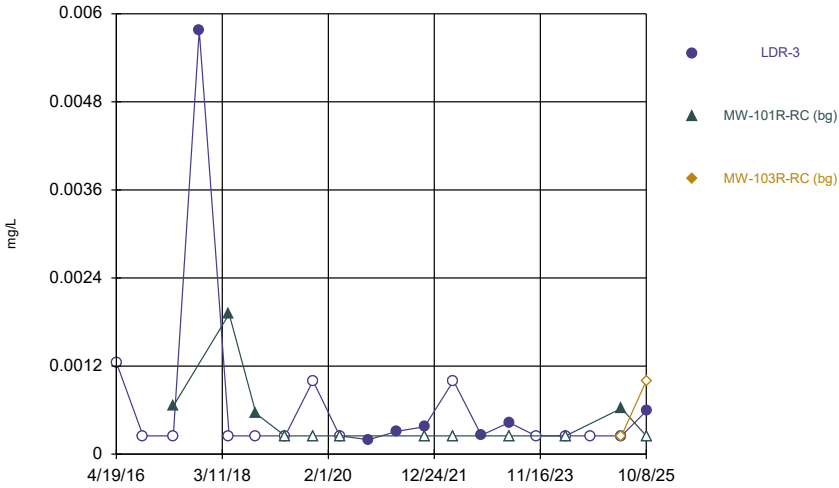
Constituent: Lead Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



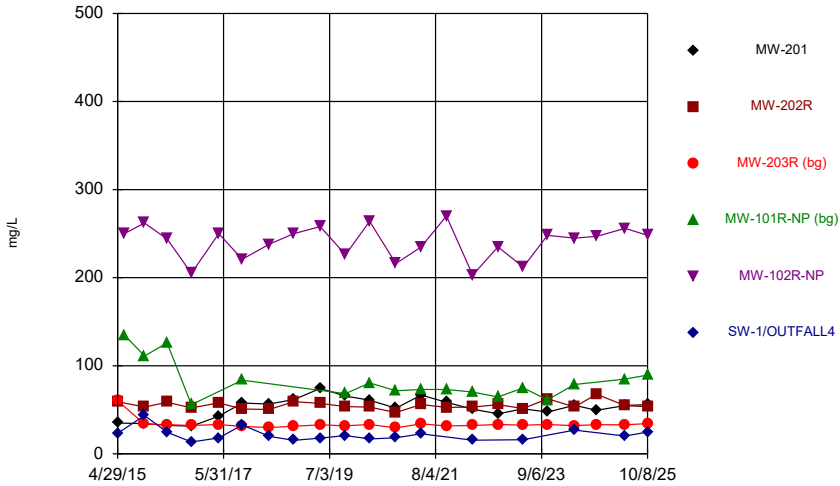
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



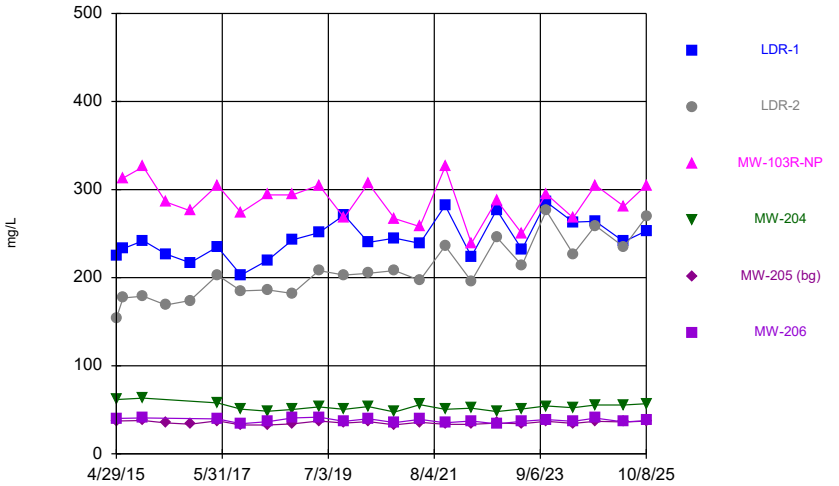
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



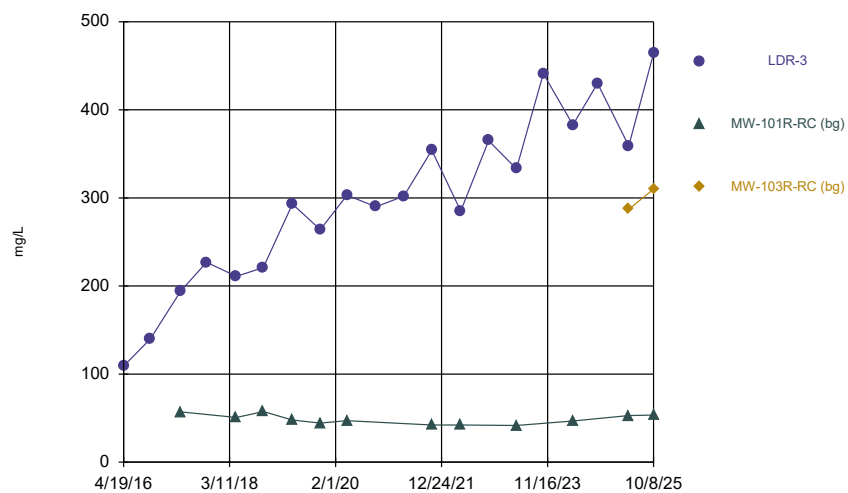
Constituent: Magnesium Analysis Run 10/29/2025 12:42 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



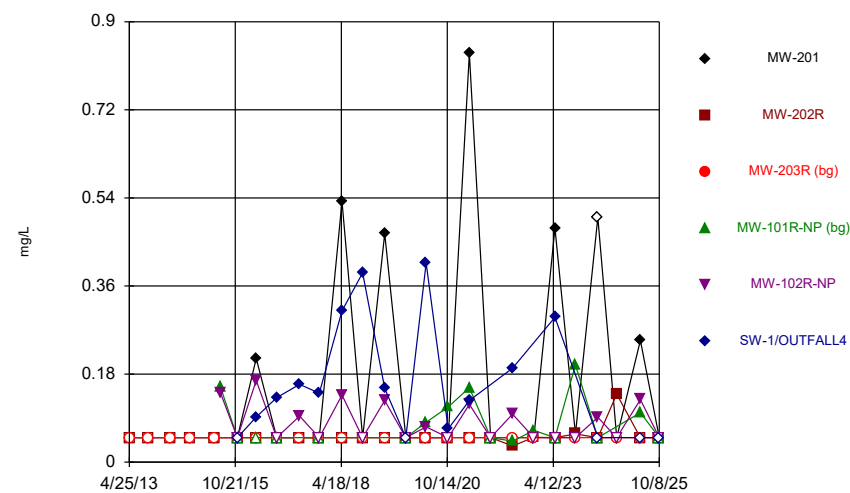
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



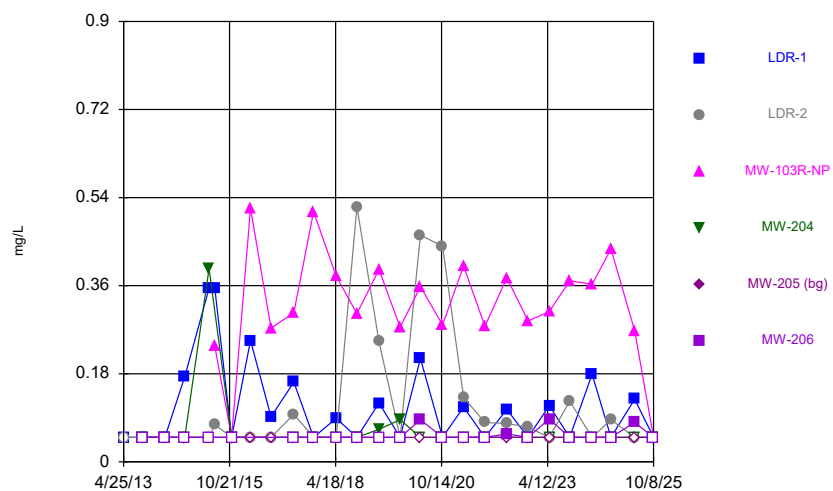
Constituent: Magnesium Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



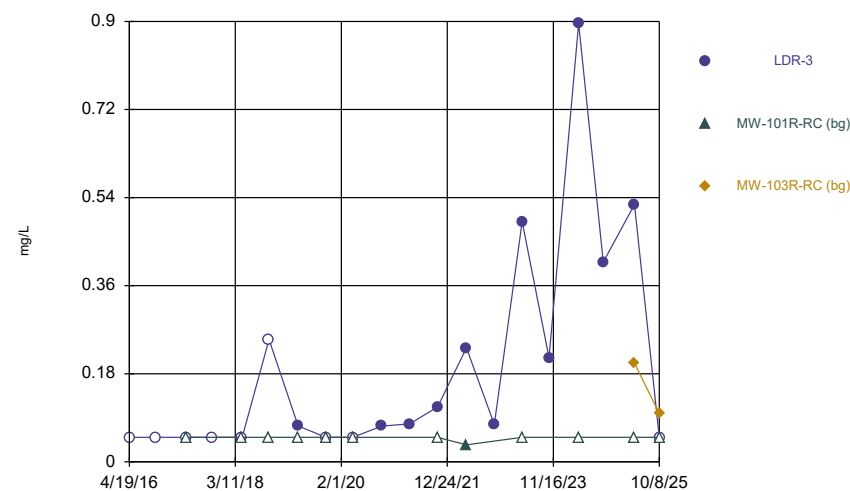
Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



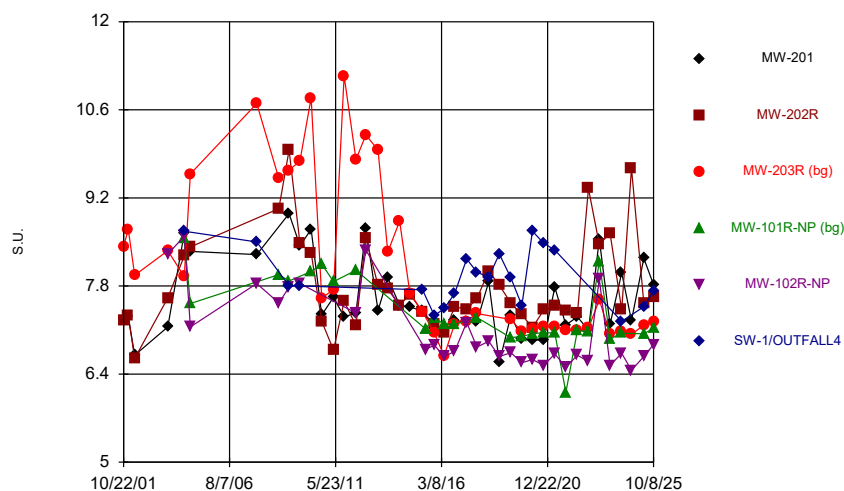
Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



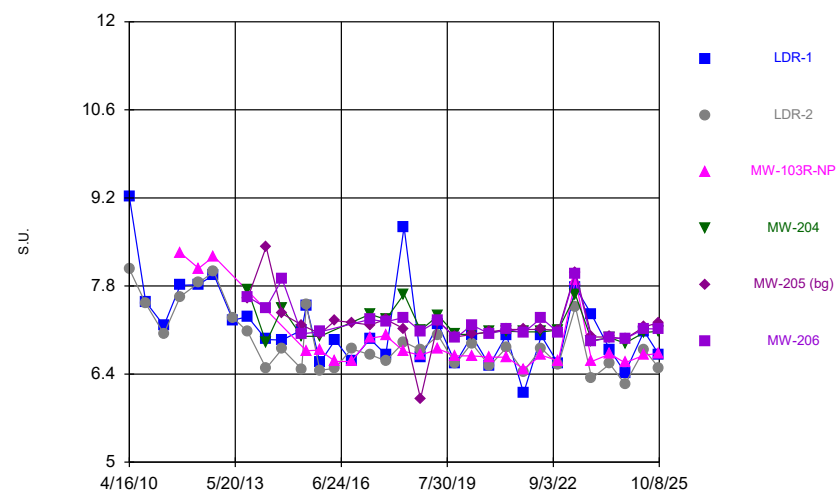
Constituent: Nitrate/Nitrite as N Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



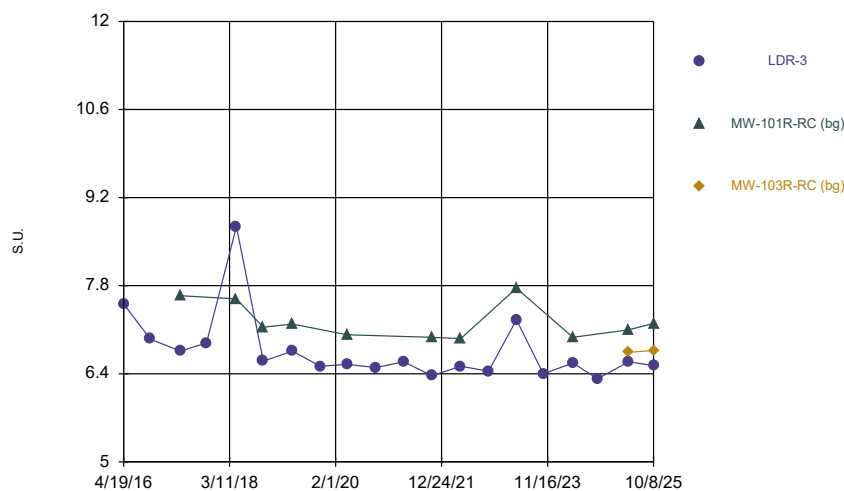
Constituent: pH Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



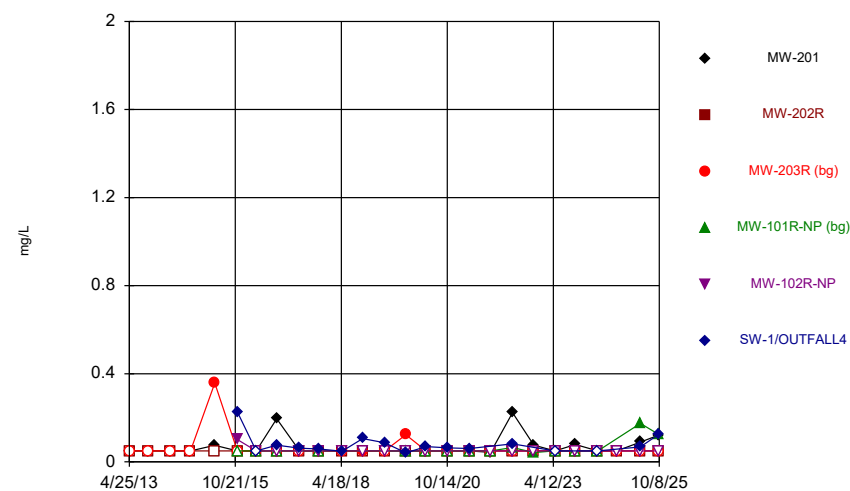
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



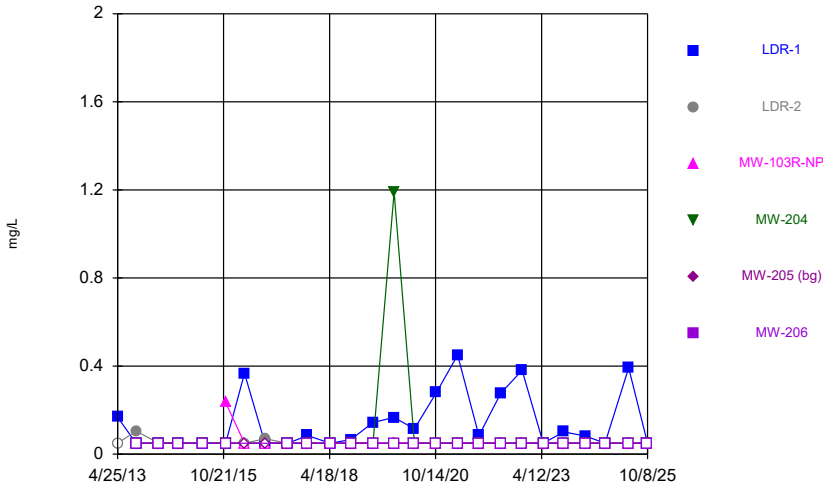
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



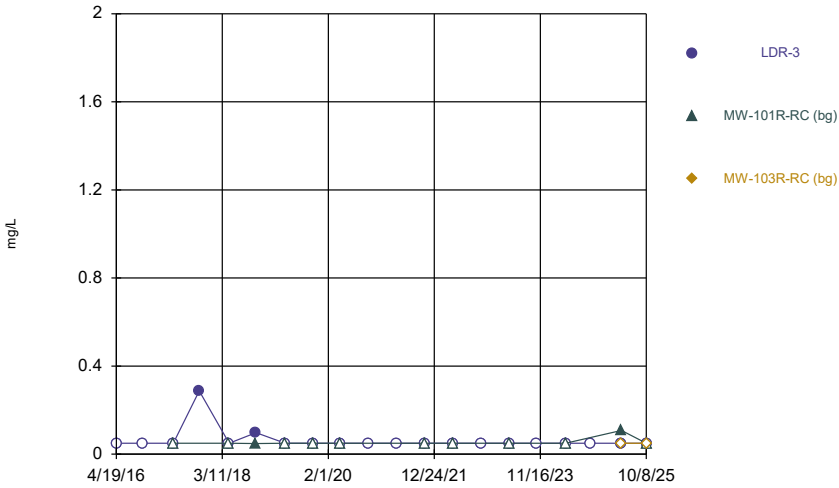
Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



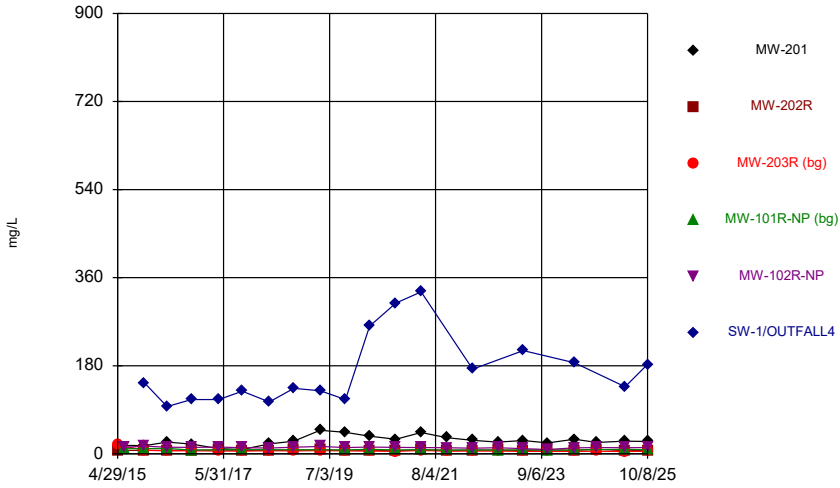
Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



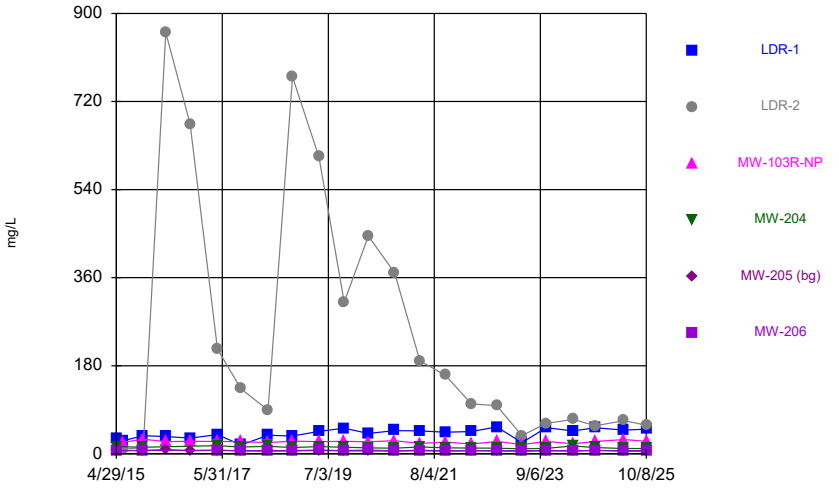
Constituent: Phosphorus, Total [as P] Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



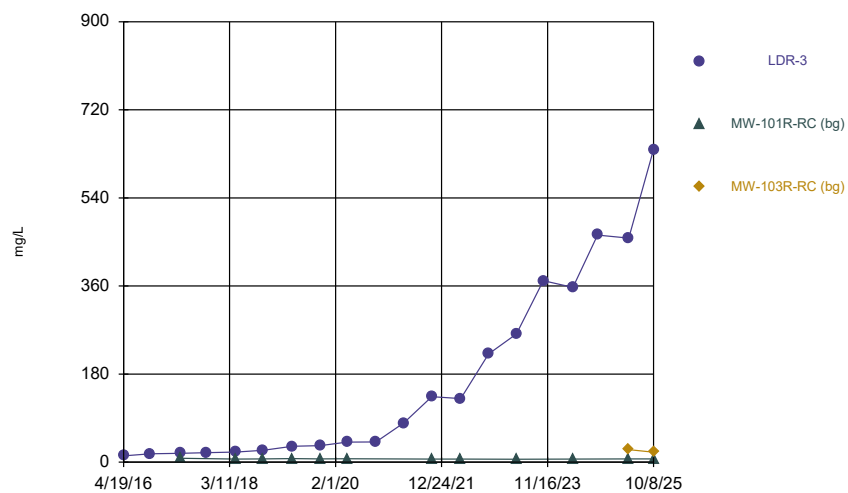
Constituent: Potassium Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Serie
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



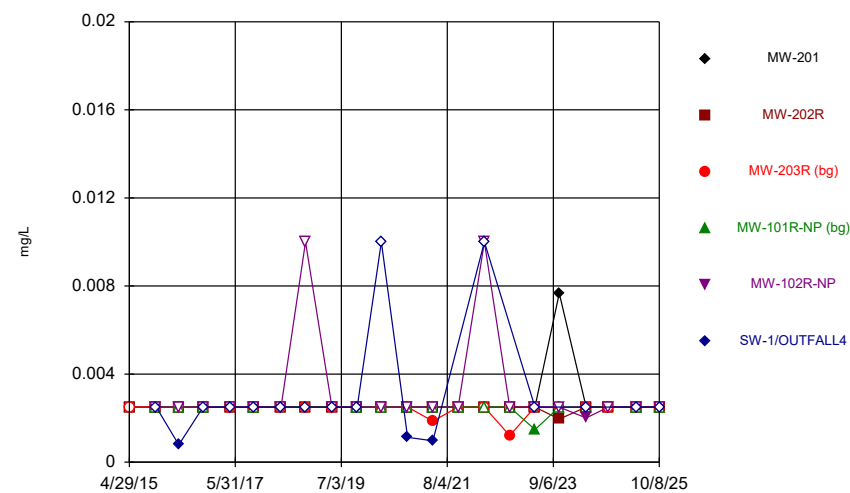
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



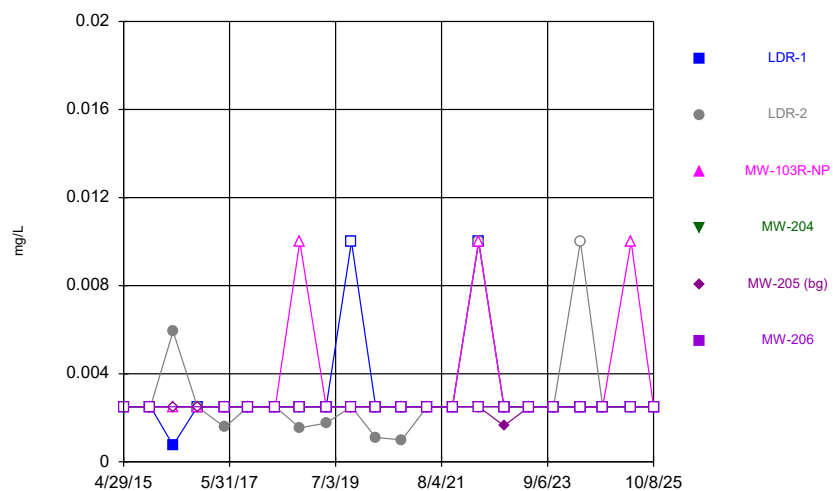
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



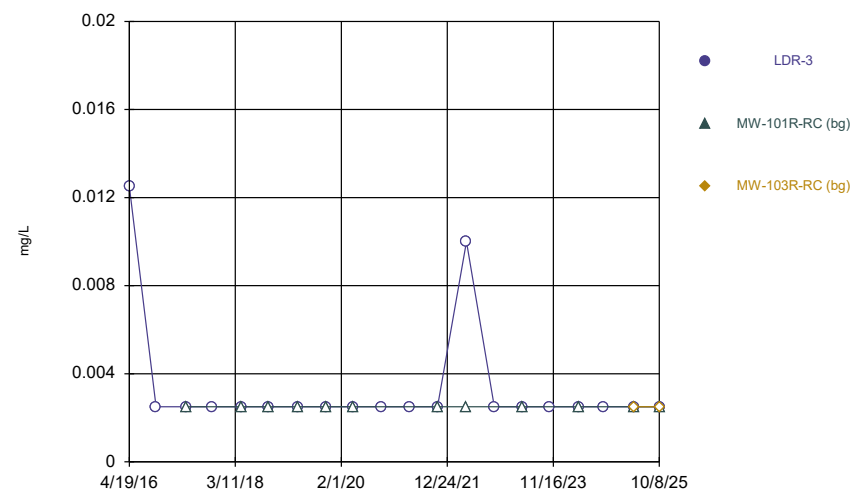
Constituent: Selenium Analysis Run 10/29/2025 12:43 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



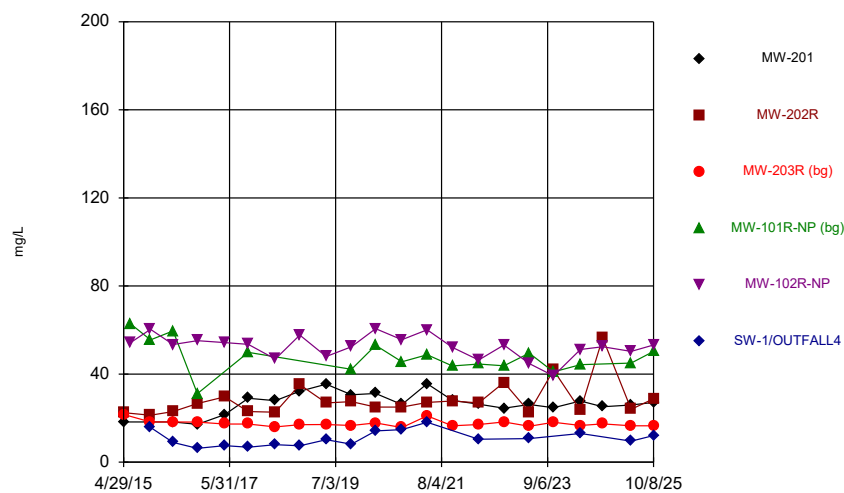
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Time Series



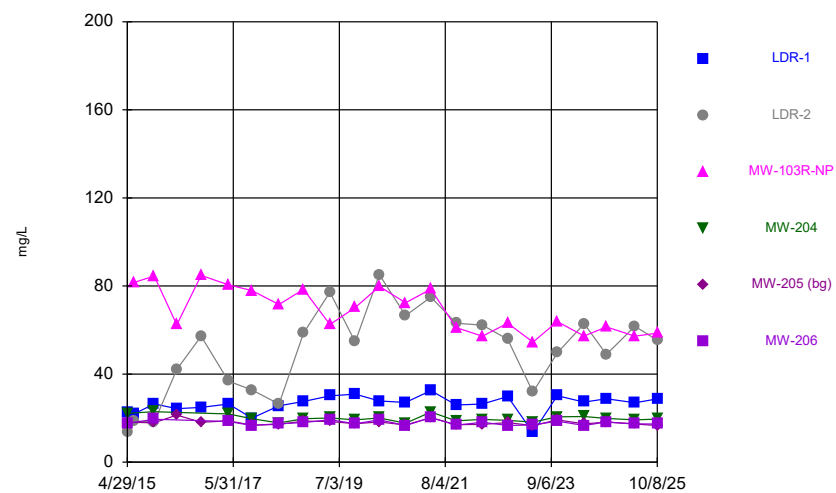
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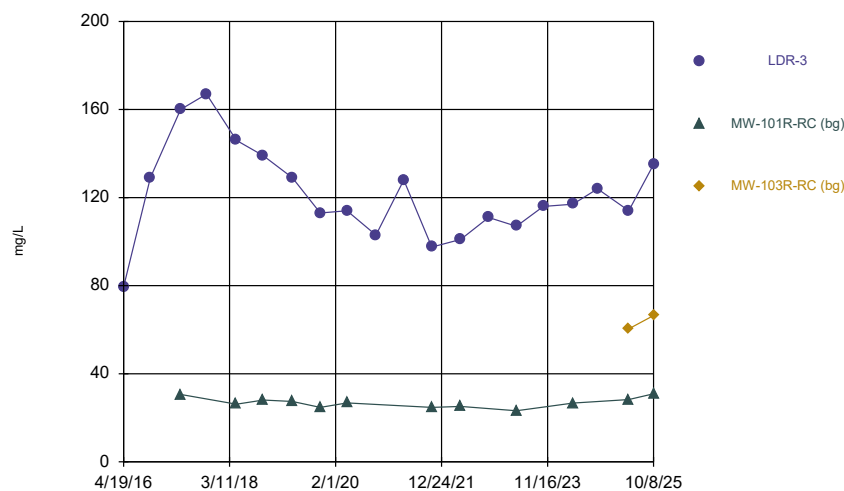
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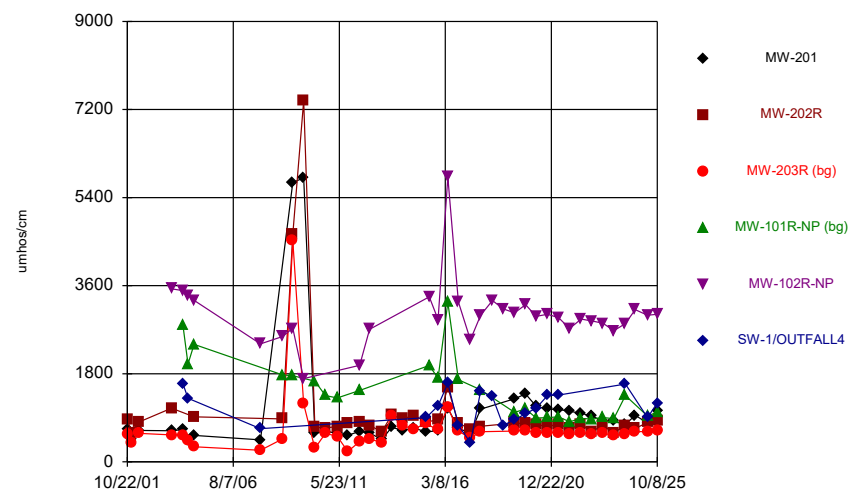
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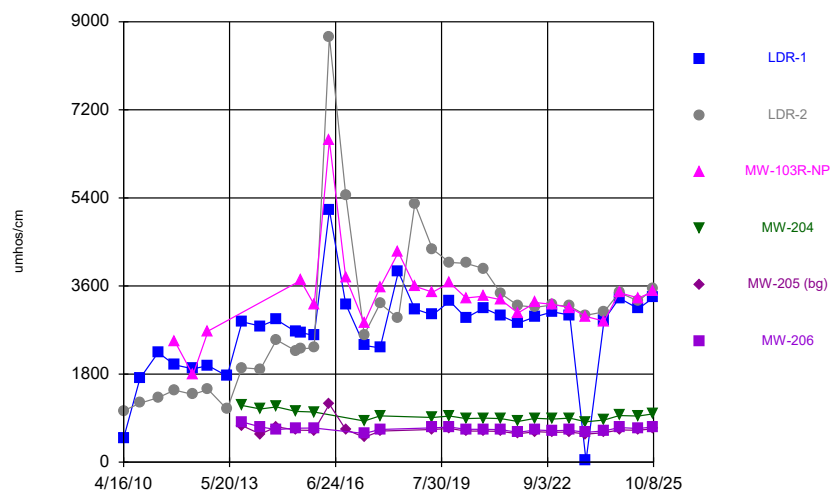
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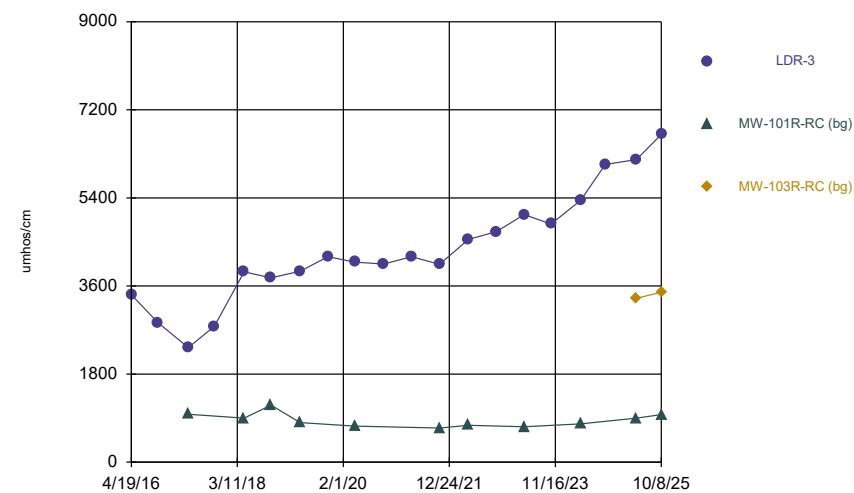
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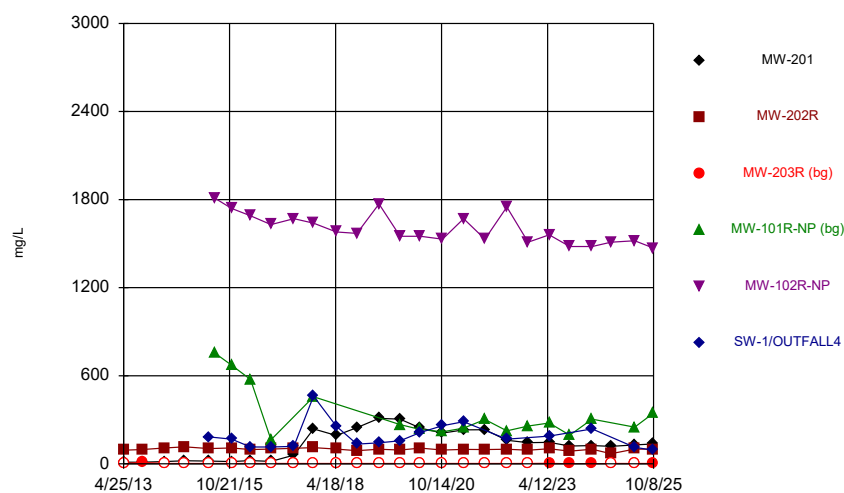
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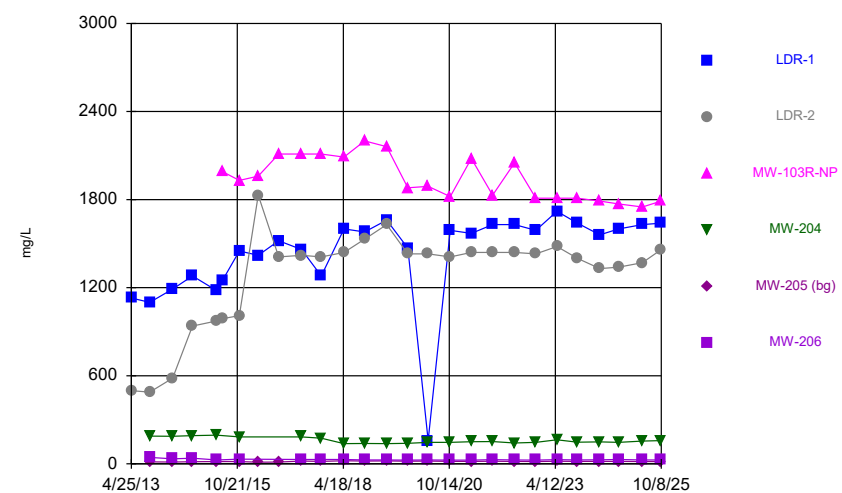
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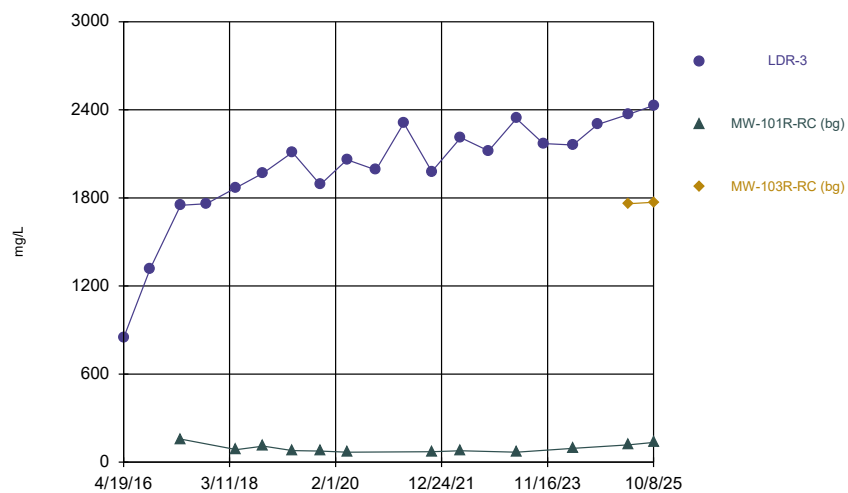
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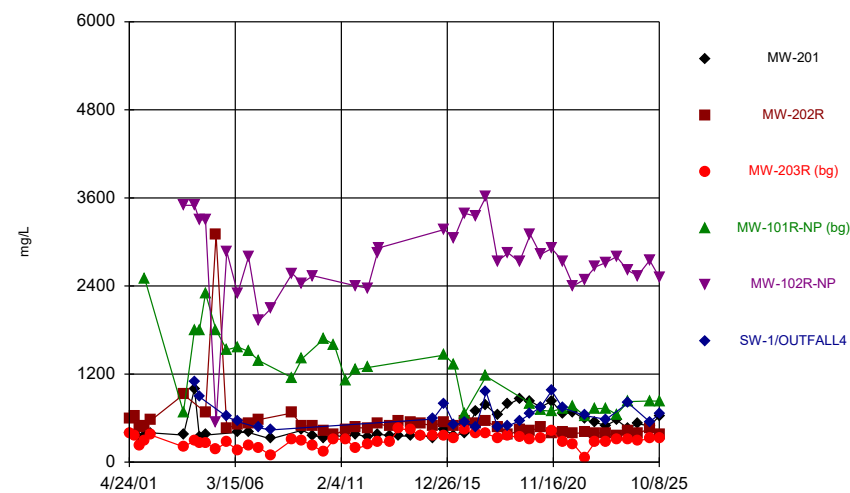


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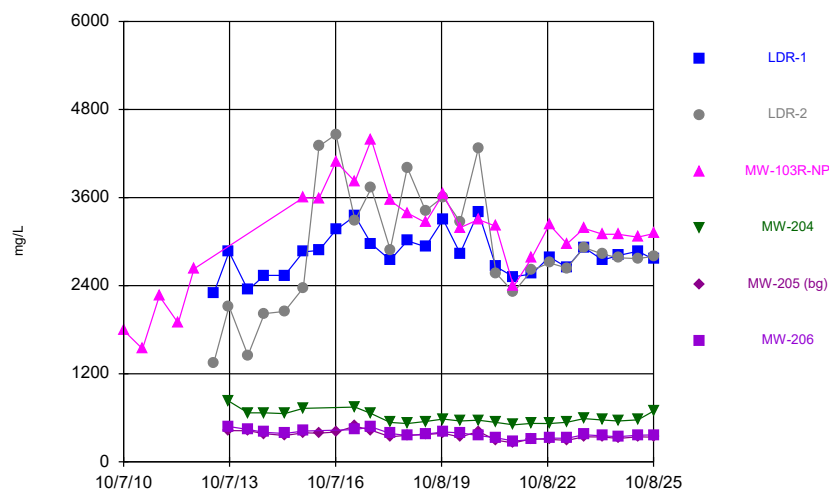
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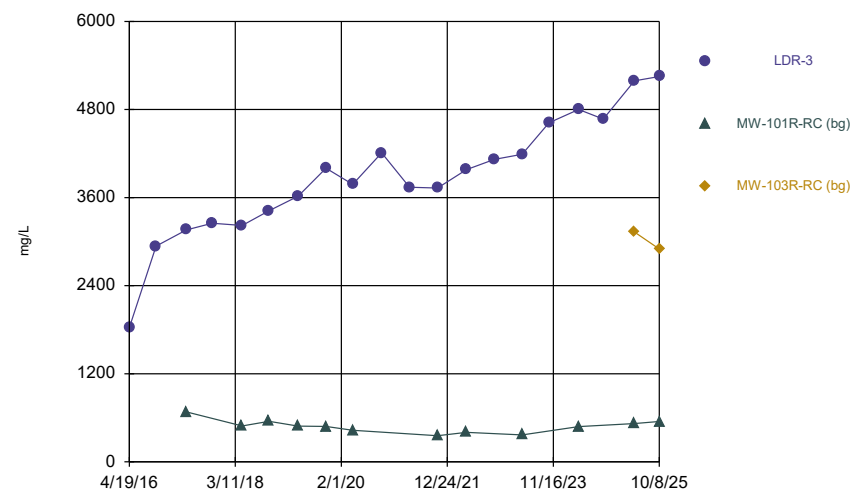
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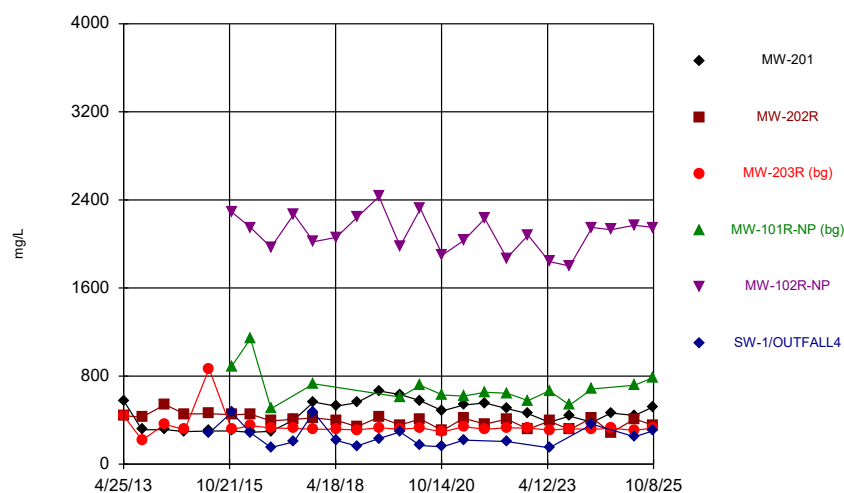
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Time Series

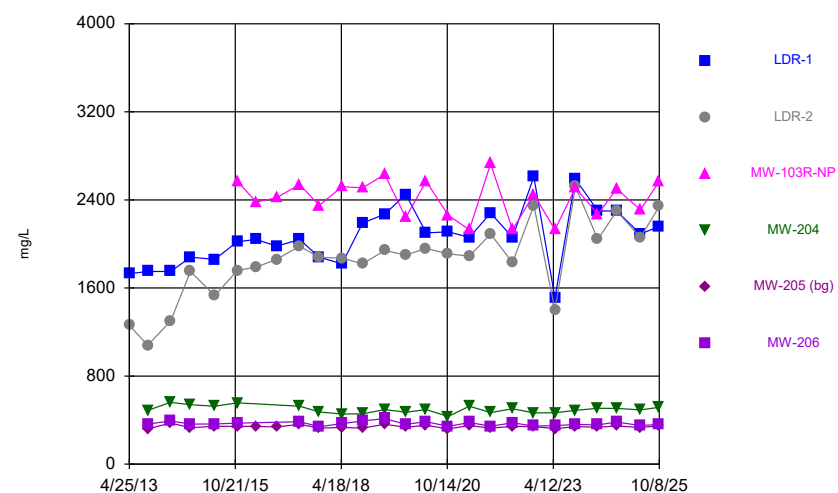


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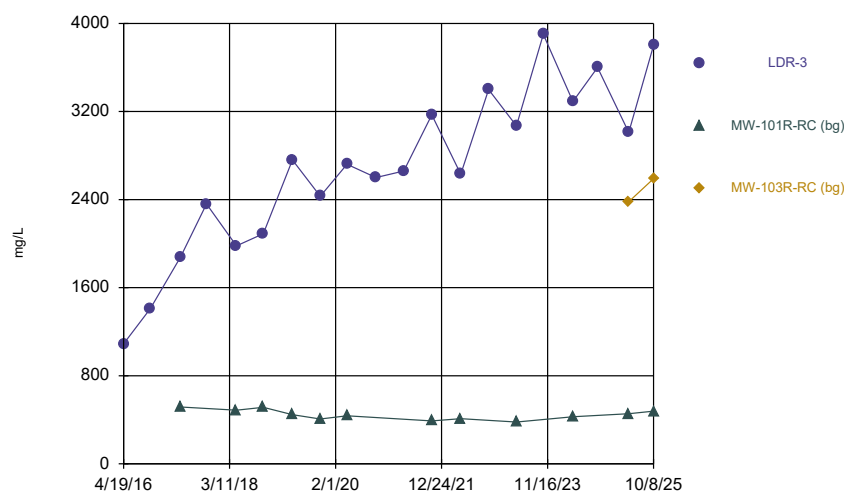
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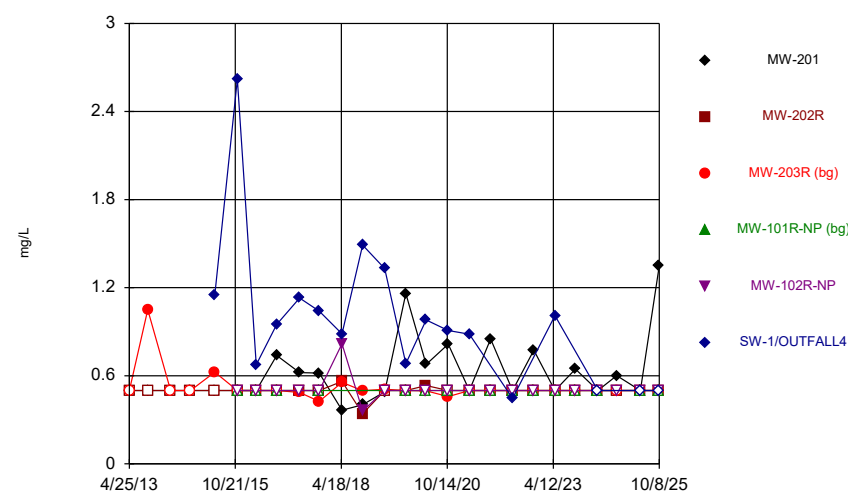
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Time Series



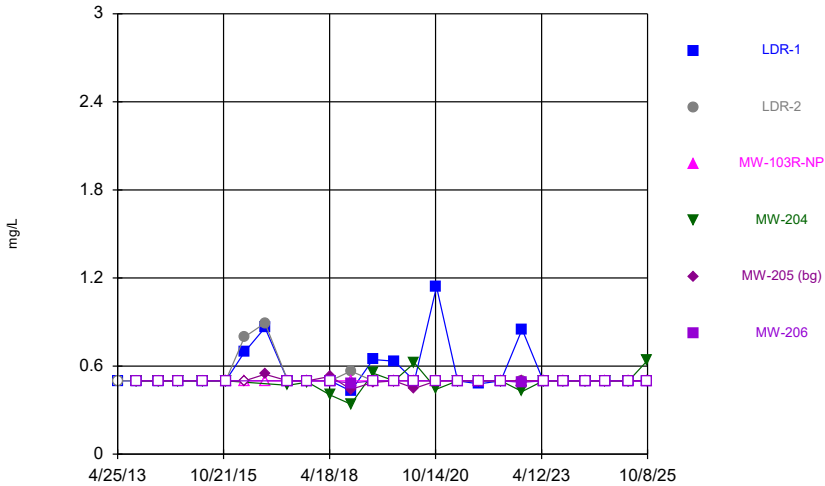
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Time Series



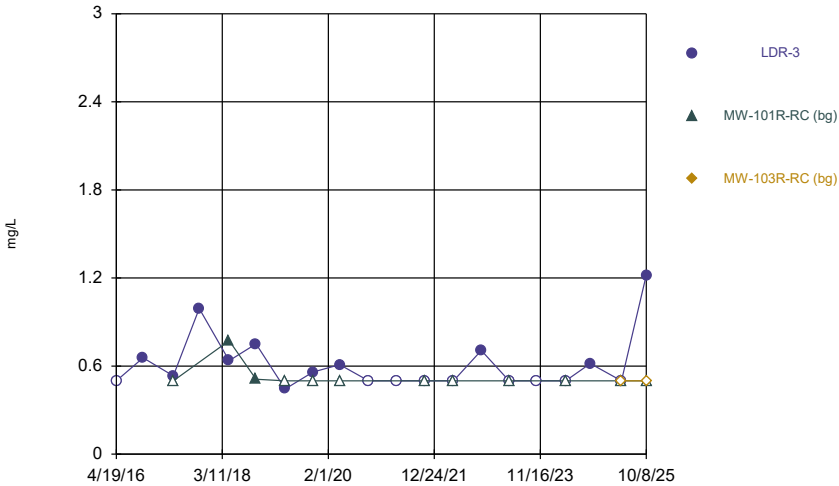
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



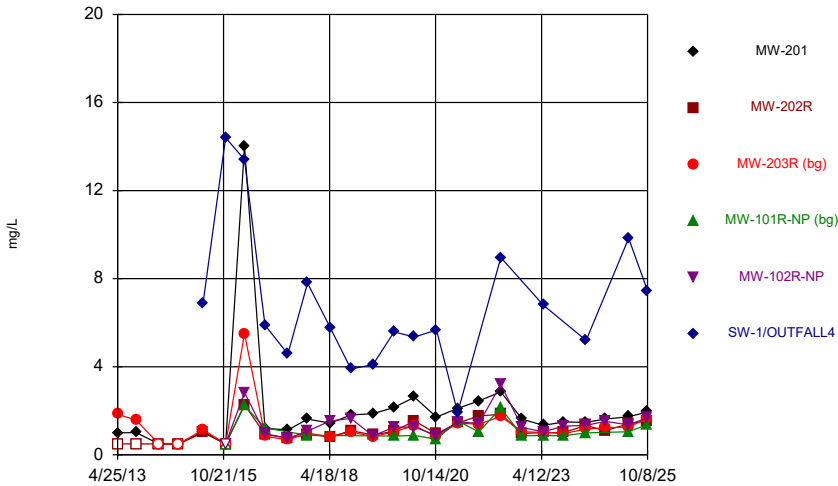
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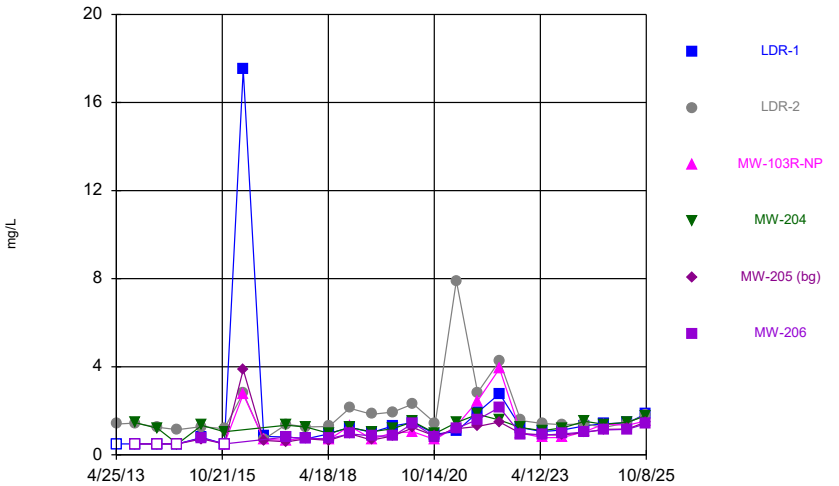
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Time Series



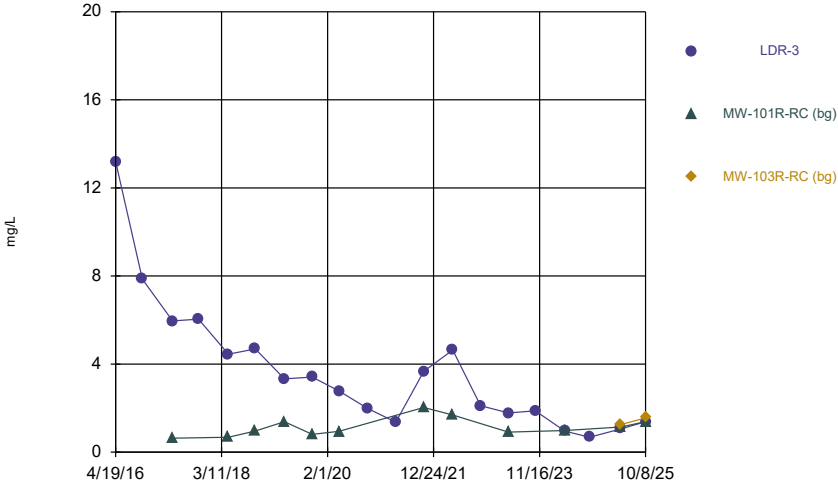
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CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series



Constituent: Total Organic Carbon Analysis Run 10/29/2025 12:44 PM View: 2025_AWQR-Time_Series
CKD Monofill Client: Lehigh Cement Company Data: LCMNT Master

Time Series





Appendix E

Mann-Kendall Trend Table

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
LDR-1	Alkalinity, Total [CaCO3]		6	
	Aluminum		-3	
	Ammonia as N		3	
	Arsenic		-5	
	Bicarbonate		6	
	Calcium		-8	
	Chloride		0	
	Chromium		-7	
	Lead		-8	
	Magnesium		2	
	Nitrate/Nitrite as N		0	
	pH		-6	
	Phosphorus, Total [as P]		-7	
	Potassium		4	
	Sodium		2	
	Specific Conductance		12	
	Sulfate		2	
	Total Dissolved Solids		10	
	Total Hardness		-3	
	Total Organic Carbon		10	
LDR-2	Alkalinity, Total [CaCO3]		8	
	Arsenic		-1	
	Bicarbonate		8	
	Calcium		2	
	Chloride		7	
	Magnesium		12	
	Nitrate/Nitrite as N		-8	
	pH		-8	
	Potassium		-10	
	Sodium		-2	
	Specific Conductance		12	
	Sulfate		-6	
	Total Dissolved Solids		10	
	Total Hardness		6	
	Total Organic Carbon		-6	
LDR-3	Alkalinity, Total [CaCO3]		4	
	Ammonia as N		12	
	Arsenic		1	
	Bicarbonate		4	
	Calcium		4	
	Chloride			26
	Chromium	-15		
	Lead		-8	
	Magnesium			14
	Nitrate/Nitrite as N		2	
	pH		0	
	Potassium			24
	Sodium			20
	Specific Conductance			26
	Sulfate			14
	Total Dissolved Solids			26
	Total Hardness		8	
	Total Kjeldahl Nitrogen		6	
	Total Organic Carbon	-16		

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-101R-NP	Alkalinity, Total [CaCO3]		-4	
	Aluminum		3	
	Ammonia as N		10	
	Arsenic		6	
	Bicarbonate		4	
	Calcium			16
	Chloride		-6	
	Chromium			16
	Lead		5	
	Magnesium			14
	Nitrate/Nitrite as N		6	
	pH		4	
	Phosphorus, Total [as P]		10	
	Potassium		11	
	Sodium		12	
	Specific Conductance			18
	Sulfate		6	
	Total Dissolved Solids			14
	Total Hardness			14
	Total Organic Carbon		5	
MW-102R-NP	Alkalinity, Total [CaCO3]		4	
	Bicarbonate		0	
	Calcium		6	
	Chloride		10	
	Magnesium			19
	Nitrate/Nitrite as N		0	
	pH		0	
	Potassium		11	
	Sodium		7	
	Specific Conductance		6	
	Sulfate		-12	
	Total Dissolved Solids		0	
	Total Hardness			13
	Total Organic Carbon		10	
MW-103R-NP	Alkalinity, Total [CaCO3]		-6	
	Bicarbonate		-12	
	Calcium		8	
	Chloride			16
	Magnesium			15
	Nitrate/Nitrite as N		-8	
	pH		1	
	Potassium			17
	Sodium		1	
	Specific Conductance		6	
	Sulfate	-20		
	Total Dissolved Solids		3	
	Total Hardness			13
	Total Organic Carbon		8	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-201	Alkalinity, Total [CaCO3]		0	
	Ammonia as N		2	
	Arsenic	-15		
	Bicarbonate		0	
	Calcium		-4	
	Chloride		-4	
	Lead		-1	
	Magnesium			14
	Nitrate/Nitrite as N		2	
	pH		6	
	Phosphorus, Total [as P]		1	
	Potassium		-4	
	Selenium		-1	
	Sodium		6	
	Specific Conductance		-2	
	Sulfate		-10	
	Total Dissolved Solids		-4	
	Total Hardness		2	
	Total Kjeldahl Nitrogen		4	
	Total Organic Carbon		5	
MW-202R	Alkalinity, Total [CaCO3]		3	
	Ammonia as N		7	
	Bicarbonate		-1	
	Calcium		-4	
	Carbonate		-5	
	Chloride		5	
	Magnesium		6	
	Nitrate/Nitrite as N		4	
	pH		2	
	Potassium		-2	
	Sodium		4	
	Specific Conductance		10	
	Sulfate		2	
	Total Dissolved Solids		-2	
	Total Hardness		-2	
	Total Organic Carbon		11	
MW-203R	Alkalinity, Total [CaCO3]		-1	
	Ammonia as N		4	
	Arsenic		7	
	Bicarbonate		-1	
	Calcium		-8	
	Chloride		-6	
	Magnesium		7	
	pH		3	
	Potassium		-10	
	Sodium		-9	
	Specific Conductance		10	
	Total Dissolved Solids			20
	Total Hardness		-6	
	Total Organic Carbon		8	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
MW-204	Alkalinity, Total [CaCO3]		-2	
	Ammonia as N		8	
	Arsenic		5	
	Bicarbonate		-2	
	Calcium		0	
	Chloride			16
	Magnesium			21
	pH		-4	
	Potassium		-6	
	Sodium		4	
	Specific Conductance		12	
	Sulfate		12	
	Total Dissolved Solids			18
	Total Hardness			14
	Total Organic Carbon		8	
MW-205	Alkalinity, Total [CaCO3]		-2	
	Ammonia as N		4	
	Arsenic		7	
	Bicarbonate		-2	
	Calcium		-6	
	Chloride		-2	
	Magnesium			17
	pH		-1	
	Potassium		-2	
	Sodium		-2	
	Specific Conductance		10	
	Sulfate		-11	
	Total Dissolved Solids		9	
	Total Hardness		2	
	Total Organic Carbon		10	
MW-206	Alkalinity, Total [CaCO3]		-11	
	Ammonia as N		10	
	Bicarbonate		-11	
	Calcium		-2	
	Chloride		-6	
	Magnesium		5	
	Nitrate/Nitrite as N		-4	
	pH		-3	
	Potassium		-2	
	Sodium		1	
	Specific Conductance		10	
	Sulfate		2	
	Total Dissolved Solids			16
	Total Hardness		6	
	Total Organic Carbon		12	

Monitoring Well	Constituent Name	Calculated Statistic		
		Decreasing Trend	Stable Trend	Increasing Trend
SW-1/OUTFALL4	Alkalinity, Total [CaCO3]		12	
	Aluminum	-16		
	Ammonia as N		6	
	Arsenic		-5	
	Bicarbonate		12	
	Calcium			16
	Chloride		-11	
	Chromium		5	
	Lead		-9	
	Magnesium		10	
	Nitrate/Nitrite as N	-13		
	pH		-8	
	Phosphorus, Total [as P]		1	
	Potassium	-14		
	Sodium		-10	
	Specific Conductance		12	
	Sulfate	-14		
	Total Dissolved Solids		-12	
	Total Hardness		12	
	Total Kjeldahl Nitrogen		-11	
	Total Organic Carbon		10	



Appendix F

Leachate Control System Performance Evaluation Report

Table F1
Leachate Management Summary
2025 Annual Water Quality Report
Heidelberg Materials US Cement CKD Monofill
Permit No. 17-SDP-08-99P

Date of Measurement	Column in Piezometer (ft)			Volume Recirculated (gal)	Discharge to North Pond (gal)	Precipitation (in)
	LHP-1	LHP-2	LHP-3			
12/18/2024	2.45	Dry	Dry	0	6,620,400	1.22
2/26/2025	2.60	0.32	0.03			0.36
3/18/2025	2.85	0.02	0.02			3.90
4/16/2025	1.54	0.15	0.01			4.44
5/22/2025	3.28	0.14	0.01			2.78
6/11/2025	2.74	0.10	0.01			10.16
7/15/2025	2.83	0.11	Dry			8.53
8/13/2025	4.46	0.12	NA			3.42
9/16/2025	4.06	0.13	0.06			2.11
10/23/2025	3.92	0.08	0.06			1.76
Reporting Period Total					6,620,400	38.68

Notes:

- 1) Historical leachate levels and graphs are provided in Attachment A.
- 2) Precipitation data for December 2024 - October 2025 obtained from [ncdc.noaa.gov](https://www.ncdc.noaa.gov).
- 3) NA - Not Available, piezometer was inaccessible due to elevated water levels in the sedimentation pond.

Comments:

Reporting Period: December 2024 - October 2025.

Approved Changes to Leachate Collection System: None.

Proposed Changes to Leachate Collection System: None.

Maintenance Performed on Leachate Collection System: Leachate pumps for Phase 1 and Phase 3 were repaired in fall 2025.

Last Date of Cleaning and Inspection: October 2021.

Date of Next Cleaning and Inspection: Anticipated in 2026.

Volume of Leachate Recirculated: 0 gallons

Volume of Leachate Treated Off-Site: Not Applicable - Discharge under NPDES permit # 1700100.

Leachate Quality Testing Results: See SW-1 in Appendix C.

North Pond Levels: 4/29/2025 = 1,112.53 feet amsl; 10/8/2025 = 1,113.25 feet amsl

Path: C:\Users\hmadson\OneDrive - SCS Engineers\Desktop\GIS\Map\Leachate\Site Map\Leachate Map.mxd, 10/20/2025 9:29 AM, User: hmadson



Leachate Control System

Legend

- | | | |
|------------------------------|--------------------------|-----------------------|
| Leachate Monitoring Point | Leachate Piezometer | FML Liner Boundary |
| Leachate Piping - Perforated | Leak Detection Lysimeter | Future Waste Boundary |
| Leachate Piping - Solid | Waste Boundary | Property Boundary |
| Monitoring Well | Existing Cell Boundary | |

Lehigh Cement Company
Mason City, Iowa
Project No: 27225178.00
Drawing Date: November 2025

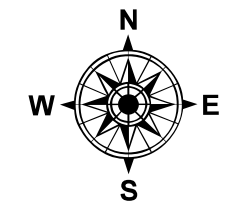
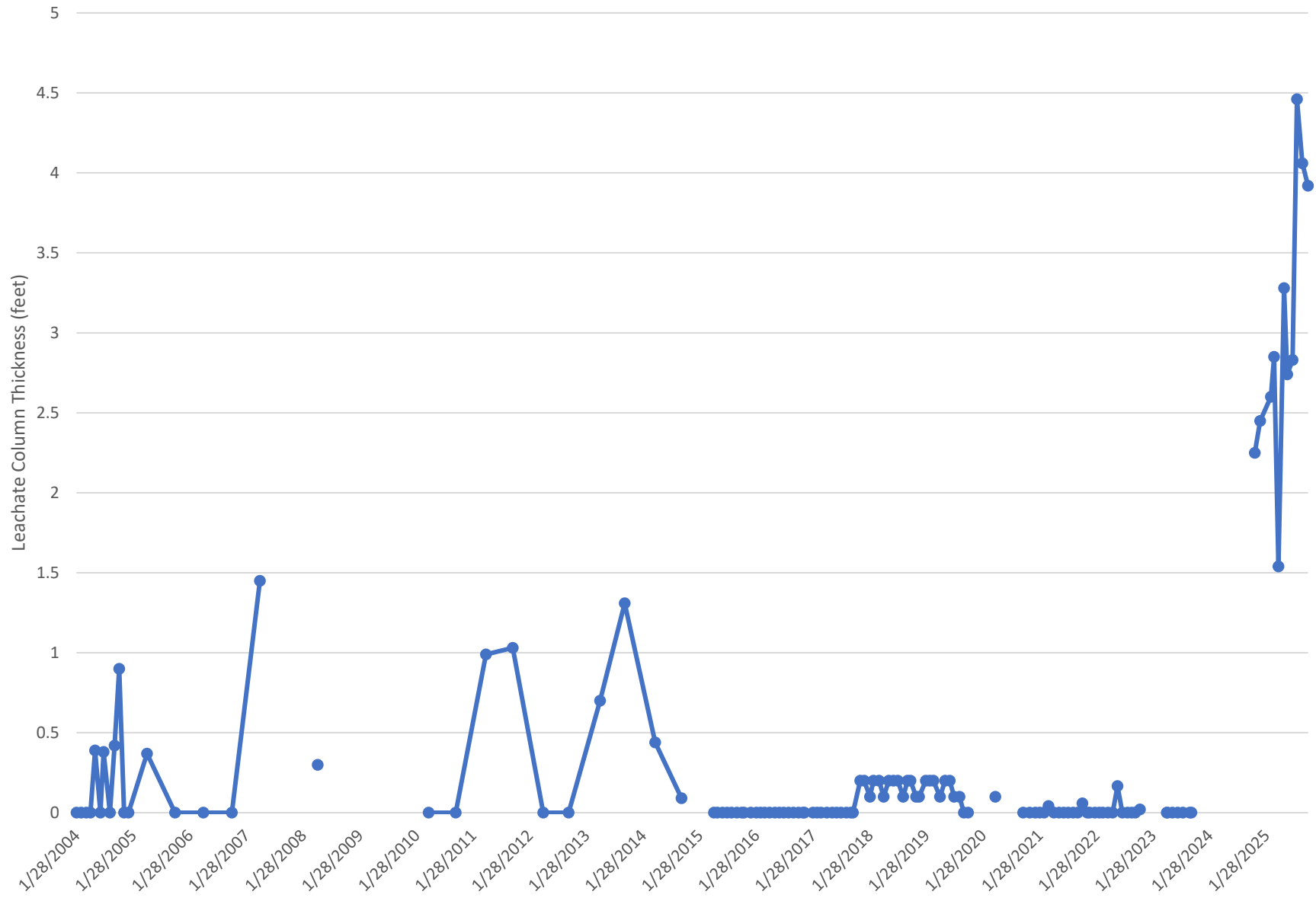


Figure 1

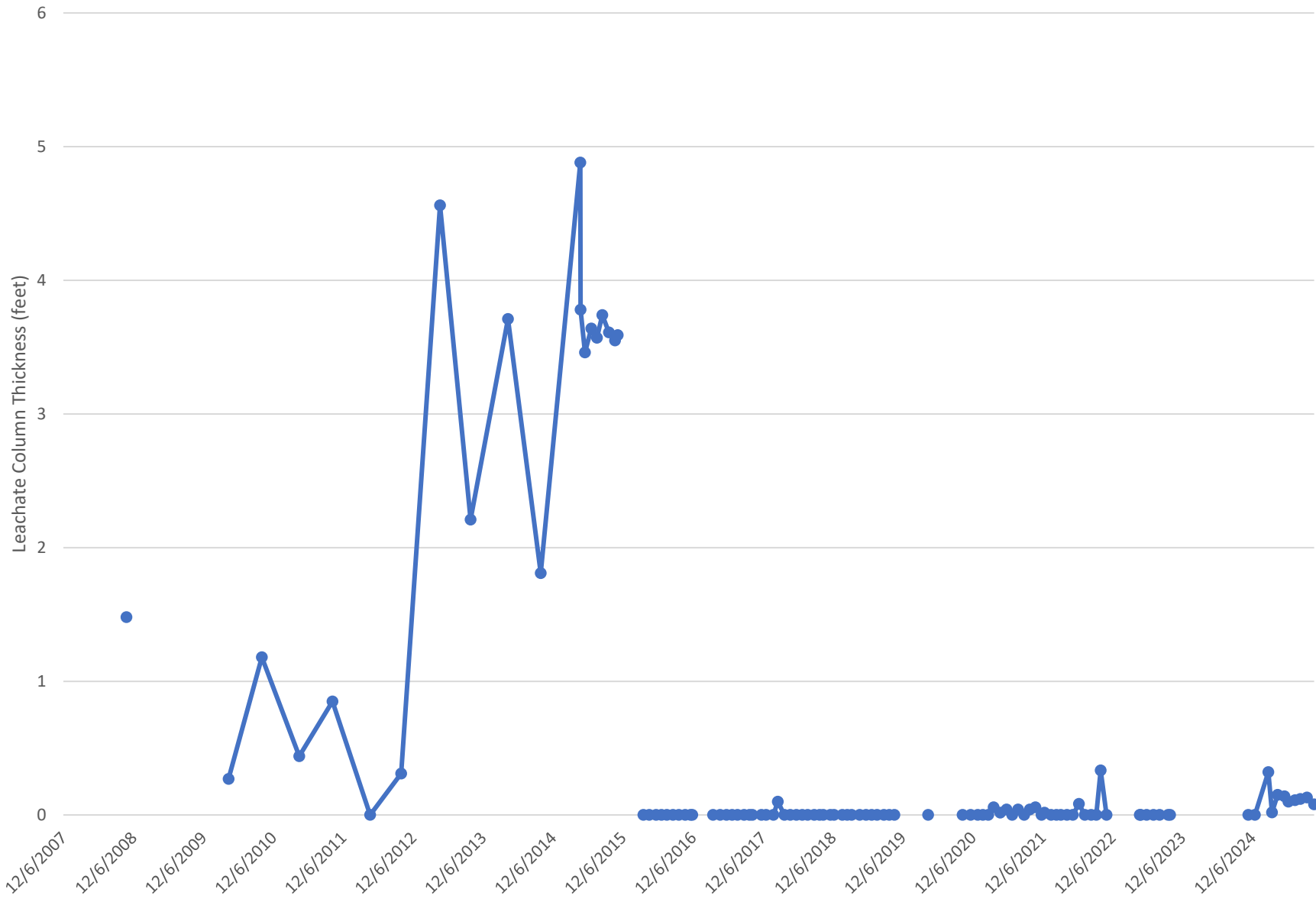
Attachment A

Historical Leachate Level Graphs

LHP-1



LHP-2



LHP-3

